Romantic America Series

On picture drawn by William Penn and his party on the road to Pennsbury Manor. The historic place of residence on the Delaware River about four miles above Bristol. The latter city has stepped on the Penn's Pet Tavern at Penn and Valley Cities, formerly Philadelphia. At the right of the tavern is the first shipyard in the province of Pennsylvania and above the building of the first boat that successfully went down the Delaware River was begun. Farmers for the shipyard were there being seen at the left. Behind the buildings appeared in the world. Here, upon a dry dock, workmen are repairing the vessels will rest the problem of carrying out [illegible] of Uncle Sam's extensive fleet of boats for the war and for the reconstruction period after the war. In the inset above are two ships alongside the wharf. Here ships will be building, as the view

BUILDING THE FIRST AMERICAN SHIP ON THE DELAWARE, IN 1701, in the Province of Pennsylvania, Where Now, Only a Short Distance From the Same Place, the United States Government is Building 50 Ships at One Time in One Shipyard: From a Painting by J. L. G. Ferris

The GREATEST MOTHER in the WORLD

Stretching forth her hands to all in need; to Jew or Gentile, black or white; knowing no favorite, yet favoring all.

Ready and eager to comfort at a time when comfort is most needed. Helping the little home that's crushed beneath an iron hand by showing mercy in a healthy, human way; rebuilding it, in fact, with stone on stone; replenishing empty bins and empty cupboards; bringing warmth to hearts and hearths too long neglected.

Seeing all things with a mother's sixth sense that's blind to jealousy and meanness; seeing men in their true light, as naughty children—snatching, biting, bitter—but with a hidden side that's quickest touched by mercy.

Reaching out her hands across the sea to No Man's land; to cheer with warmer comforts thousands who must stand and wait in stenched and crawling holes and water-soaked entrenchments where cold and wet bite deeper, so they write, than Boche steel or lead.

She's warming thousands, feeding thousands, healing thousands from her store; the Greatest Mother in the World—the RED CROSS.

Every Dollar of a Red Cross War Fund goes to War Relief

Contributed through Division of Advertising — *United States Gov't. Comm. on Public Information*

This space contributed for the Winning of the War by

THE ROBBINS & MYERS CO., SPRINGFIELD, O.

Armstrong's Linoleum

Circle A Trade Mark — Reg. U.S. Pat. Off.

For Every Room (A) in the House

ANY child could be happy in this playroom, because it is cheerful, colorful, and ideally equipped for romping, tumbling, and the exercise of childhood fancies. The walls are gay with the adventures of *Alice in Wonderland*. The furnishings and hangings merge pleasingly into the general picture. The floor is bright and dainty, and fulfils the practical requirements of a playroom or nursery.

It is an Armstrong's Linoleum floor in a tile effect. Note how well it harmonizes with everything else in the room. It is very durable. The tough, elastic fabric wears well under scraping, scuffling feet and sliding furniture.

Armstrong's Linoleum is practically germ-proof. The linseed oil it contains, chemists say, is deadly to disease germs. It has no cracks and crevices to catch the dirt. It is resilient, and breaks the frequent falls of the little ones. Its smooth surface offers nothing to trip over. There are no rough edges to damage dainty frocks. It is by all odds the most economical floor for a nursery or playroom.

Two appropriate patterns for a nursery floor

Linoleum is made of powdered cork, wood flour, and oxidized linseed oil, pressed on burlap. Be careful you get it. For there are inferior floor coverings nowadays that look like linoleum on the surface, but which are merely imitations. Remember these two easy ways to tell genuine linoleum. First, look at the back and make sure it's burlap. Second, try to tear it. Imitations tear easily.

Better still, ask for Armstrong's Linoleum by name—there *is* a difference.

Visit your dealer in house-furnishings today, and have the newest Armstrong designs shown to you. It will prove a pleasant and profitable experience.

Armstrong's Linoleum will make an artistic, sanitary floor for any room in your house. Perhaps for your particular style of hallway, living-room, or dining-room the Parquetry Inlaid designs would be most suitable. They come in a score of patterns; are rich, warm, and dignified in appearance. The colors go clear through the fabric.

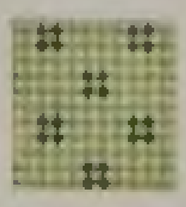
Or perhaps the delicate jaspé (moire) effects will better harmonize with your scheme of interior decoration. They come in attractive brown, blue, green, gray, and tan tones.

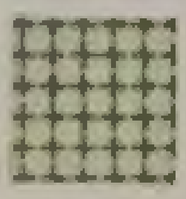
For your bedrooms, there are beautiful matting and carpet effects. Also dainty plain colors in brown, rose, blue, tan, gray, and green. Whatever patterns you use—or wherever you use them—you are certain to have an artistic pleasing effect in the room, and, what is equally important, a perfectly sanitary base for your rugs.

The use of linoleum for every room in the house has been long established in Europe. Americans of good taste are adopting the idea in rapidly increasing numbers.

Send for our new book, "The Art of Home Furnishing and Decoration," by Frank Alvah Parsons, America's foremost authority on interior decoration. It treats of the artistic necessities of every home and tells how to use linoleum effectively in every room. The author discusses his interesting subject in characteristically illuminating and intimate style. Sent with portfolio of de luxe color-plates of home interiors for 20 cents in stamps.

Another pattern — and the one above on floor





Armstrong Cork Company, Linoleum Department, Lancaster, Pennsylvania

Both the color and the texture of objects used in a child's room should suggest cleanliness, freshness, cheerfulness, and durability. At the same time they should represent *his* interests and *his* pleasures. To all these ends linoleum is expressly adapted. The walls, furniture, hangings, and toys in this room have been selected to harmonize with these ideas and with the linoleum floor which is ivory, turquoise blue, and light gray in color.—FRANK ALVAH PARSONS

ARMSTRONG UNIFORMS
and Equipments

In this number of the Recruit, we feature the

Armstrong
SWORDS and BELTS
for
NAVAL OFFICERS

These swords are made in two grades, with fine polished and etched imported blades, white shark-skin grips, with embossed and hand-engraved mountings.

Scabbards are of black raw-hide, with plain or embossed mountings.

Regulation belts, full dress and undress, are always up to the highest standard of quality in material and workmanship.

Prices as low as possible.

Special presentation swords quoted on request.

UNIFORMS
BLUE OR WHITE

Made by ARMSTRONG tailors, are sold under the broadest possible guarantee of satisfaction—you to be the judge. Get your measure in our files for future convenience.

E. A. Armstrong Mfg. Co.
434-440 South Wabash Ave.
Chicago, U.S.A.

THE ARMSTRONG UNIFORMS
CHICAGO
MADE ON HONOR

We Shall Not Sleep

"In Flanders fields
the poppies blow
Between the Crosses,
row on row,
That mark our place;
and in the sky
The larks still bravely
singing fly,
Scarce heard amidst
the guns below.

We are the dead.
Short days ago we lived,
felt dawn,
saw sunset glow,
Loved and were loved,
and now we lie
In Flanders fields.

Take up our quarrel
with the foe.
To you from failing hands
we throw the Torch-
be yours to hold it high;
If ye break faith
with us who die,
We shall not sleep,
though poppies grow
In Flanders fields."

Courtesy of [illegible]

In behalf of the brave men who have enlisted in the fight of right against might we reprint the above lines by Col. McCrae.

As an inspiration to war giving and war sacrifice it strikes a major note. There is no war appeal to which it is not applicable.

This beautiful lyric of the war was written by Lieutenant Colonel Dr. John McCrae of Montreal, Canada, while the second battle of Ypres was in progress.

The author's body now lies buried in Flanders fields.

Is it conceivable that we shall "break faith" with those "who die" for us?

Contributed toward the Winning of the War by

BAUER & BLACK Makers of Surgical Dressings etc. Chicago New York Toronto

THE CHILDREN'S CHRISTMAS THIS YEAR

The Easily Made Christmas Doll That Fits the Times

Dolls Dressed in the Costumes of Our Allies

For Gifts or Bazaars: By Jane Porter

A good seller for a bazaar. Children both old and young will love our little Scotch laddie in his Highland costume.

The Serbian lady on the left is brilliant in her green satin skirt, blue bodice with bronze braid and bright red kerchief over the stiff green hat.

The little Russian lady on the right is also gay in color. Her skirt is red silk, her apron made of bits of lace, and the sleeves of her waist decorated in cross-stitch in bright colors.

The Chinese boy is sure to bring a smile to everyone's face—he is so very serious. Odd bits of silk or ribbon can be used to make his costume.

Our little Welsh doll, with her bright red hood and her stiff black hat and basket, makes you think of Little Red Riding Hood, does she not?

And who could resist this pair? The little Yankee soldier is telling his new French brother, the Blue Devil, that he is with him to the end.

Both the American soldier doll in khaki and the Blue Devil in horizon blue are sure to attract attention and will sell well separately or as a pair.

The kiddies will love the Red Cross doll in her gray dress, with white apron. Her blue cape, lined with bright red, is much admired by all France.

Here is a little Alsatian maid, with her friend from Brittany. The headdress of each is quaint; the most characteristic feature of the costumes is that the bow of the Alsatian child is black, as is the cap of the Brittany child. These are never in color.

You all know the little Japanese lady in her bright-flowered kimono made of bits of ribbon, with a broad sash which is made of cherry-colored silk.

The little Italian flower girl has a purple cotton skirt, with a bit of Roman striped ribbon as an apron. Her headdress is white and reaches to the waist at the back.

Our brave little sailor boy is telling his new little Belgian friend, Suzanna, that things will soon be better now that he is there. Her skirt is red, her apron black and the cap and surplice part of her waist yellow with a black edge.

THE CHILDREN'S CHRISTMAS THIS YEAR

The Easily Made Christmas Doll That Fits the Times

Dolls Dressed in the Costumes of Our Allies

For Gifts or Bazaars: By Jane Porter

A good seller for a bazaar. Children between eight and ten years old will love our little Scotch lassie in her typical costume.

The little Russian lady on the right is also gay in color. Her skirt is red silk, her apron made of bits of lace and the sleeves of her waist decorated in rows of bright colors.

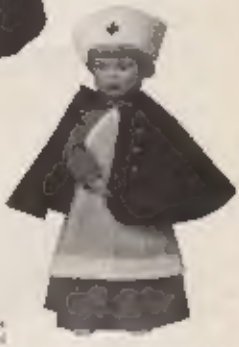
The Serbian lady on the left is brilliant in her green velvet skirt, blue bodice with bronze braid and bright red kerchief over the stiff green hat.

The Chinese boy is sure to bring a smile to everyone's face—he is so very serious. Odd bits of silk or ribbon can be used to make his costume.

Our little Welsh doll, with her bright red hood and her stiff black hat and bodice, makes you think of Little Red Riding Hood, does she not?

And she could wear this suit! The little Yankee soldier is telling his new French brother, the Blue Devil, that he is with him to the end.

Both the American soldier doll in khaki and the Blue Devil in horizon blue are sure to attract attention and will sell well separately or as a pair.



The kiddies will love the Red Cross doll in her gray dress, with white apron. Her blue cape, lined with bright red, is much admired by all Poilus.

Here is a little Alsatian maid, with her friend from Germany. The headdress of each is quaint, the most characteristic feature of the costumes is that the bow of the Alsatian child is black, as is the top of the German child. These are never in color.

You all know the little Japanese lady in her bright flowered kimono made of bits of ribbon, with a broad sash which is made of cherry colored silk.

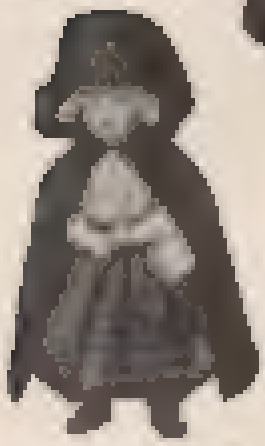
The little Italian flower girl has a purple cotton skirt, with a bit of Roman striped ribbon as an apron. Her headdress is white and reaches to the waist at the back.

Our brave little sailor boy is telling his new little Belgian friend, Jeanette, that things will soon be better now that he is there. His shirt is red, his apron black and the cap and surplice part of his suit yellow with a black edge.

The Easily Made Christmas Doll That Fits the Times

Dolls Dressed in the Costumes of Our Allies

For Gifts or Bazaars. By Jane Porter



A PERSONAL CHRISTMAS

A Child's Gift Basket

Candy Canes are Tied to the Tiny Crackers and Penny Cakes Fill It

Fudge Cakes and Cookies for a Small Nephew

For the Boys to Carry

Buy at "Over There" Day Box Like Homemade Fudge Sets

Eat the Contents Keep the Basket

You Can Give Two Presents In One

By Harriet Ellsworth Coates

MOST of us did not do half enough to save gasoline and traveling. Why not no longer send gasoline this year—our American gifts? Every woman gets up something for neighbor does not. There will be no lack of cheer in this plan, and the gifts will surely carry with them the old sweet sense of being remembered at Christmas.

For Your Dear Friend

Who Couldn't Make Anything Turn Like You Do—Give Food

A Jar of Home-Canned Peaches

Every Woman Who Cannot Fruit Could Make a Gift Like This. It Means Even Without the Basket

For a Small Niece

"All Her Own" so Wrap With Plenty Enough Christmas Ribbon

For the Apartment Family

Buy Already "Set Out" Chicken For Your Guest

For the Girl Away From Home

She Will Enjoy Receiving a Fruit Cake, Even a Whole One

From One Housekeeping Friend to Another

Mincemeat, Sweet Pickle Relish and Jellies for the Christmas Feast With the "Do Good" Homemade Taste

For the Business Girl's Kitchenette

Salad Dressing, Fruit Cake and Jellies Always Come in Handy

Send This to a Young Housekeeper

Individual Plum Puddings for Christmas Dinner. Every Guest Will Enjoy Them

A Joy to the City Friend

Only a Farmer's Wife or a Boy Who Gardened Could Send This Basket

An Almost Unlimited Opportunity for Dealers!

Cleveland Tractor

Today is the day of essentials.

The non-essentials, the unnecessary things must give way to those things which war conditions demand must have precedence.

And the Tractor is one of the greatest of the essentials.

The world demands and must have Tractors. A sufficient food supply will depend upon them.

Automobile Dealers, Implement Dealers, Machinery Dealers and Dealers handling allied lines are finding that the Cleveland Tractor fills an immediate need and enables them to maintain their volume of business which would otherwise drop off because of decreased sales in other lines.

The Tractor today is an absolute necessity.

The demand is already created.

It is almost unlimited.

It simply remains for the dealer to grasp the opportunity and prepare to supply the demand.

But he must handle a Tractor of the right sort, properly designed, properly constructed, backed by an organization with abundant capital and resources.

He must handle a Tractor that does the things which the purchaser wants a Tractor to do.

The Cleveland Tractor Company is composed of some of the leading business and financial men of the city of Cleveland, Ohio. It is headed by Mr. Robin H. White, one of the world's foremost engineers.

In the short space of about fifteen months this business has expanded and expanded until its capacity is 1,500 Cleveland Tractors per month.

In that time The Cleveland Tractor Company has grown to be *the largest producer of crawler type tractors in the world.*

This record speaks for itself.

Could anything be more convincing as to the possibility for dealers to establish a sound and stable business?

The Cleveland Tractor is decidedly different from any other.

It is an all-purpose machine which does a wider range of work than is possible with other types.

It carries, lays down and picks up its own endless tracks like the giant "tanks" on the European battlefields.

It can travel almost anywhere. There is almost no limit to the nature of work it does.

The Cleveland Tractor is comparatively small, only 96 inches long, 52 inches high, 90 inches wide, and weighs less than 3,200 pounds. Its traction surface is about 600 square inches—a little over five pounds per square inch.

On the farm, it plows, it harrows, it sows, it reaps. It does hauling of all kinds. It does the hundred and one odd jobs which are always to be done.

One Cleveland Tractor can do as much work as a number of horses and several men—and it requires only one man to run it.

There are more than six million farms in America and the majority of them can use Cleveland Tractors to advantage—to increase production and cut down costs.

The world needs and wants Cleveland Tractors by the thousands.

The machine needs but to be shown and demonstrated.

As stated before our capacity is 1,500 Cleveland Tractors per month, and we are planning to increase this just as fast as buildings can be constructed on our 74 acres of land and equipment installed.

With this increased capacity we are prepared to contract with dealers for unoccupied territory.

Now is the opportune time.

Now is the time to get ready.

When writing, dealers will enable us to handle their applications to better advantage if they will inform us fully as to their present business, their organization and facilities, together with any other information that will enable us to judge of their qualifications.

The Cleveland Tractor Co.

18991 Euclid Ave., Cleveland, Ohio, U. S. A.

The largest producers of crawler type tractors in the world

DOVE Under-muslins

DAINTY—BEAUTIFUL—
WELL MADE—GOOD MATERIALS

EXAMPLES of the beauty and economy of "DOVE" Undermuslins are shown by the photographs on this page. Read the descriptions, weigh the garments and note the prices. Then at a DOVE store you can buy the exact garment shown here and scores of other delightful new "DOVE" styles.

If you do not know the name of the store nearest you that sells "DOVE" Undermuslins, write to us. No matter where you live we can have some store fill your order for these particular garments.

"DOVE" Features

Newest Styles The very latest and prettiest styles in lingerie are always to be found in "DOVE" Underwear. The designers of "DOVE" Underwear are always on the lookout for the newest and prettiest ideas. Some of the most beautiful models in "DOVE" Underwear are copied from the exclusive models of Paris. You may be sure that when you buy "DOVE" Underwear you are getting the latest and prettiest styles.

Good Materials Only the finest materials are used in the making of "DOVE" Underwear. Every piece of "DOVE" Underwear is made of the best materials that can be bought.

Careful Workmanship Every piece of "DOVE" Underwear is made with the greatest care. Only the most skilful workmen are employed in the making of "DOVE" Underwear.

Re-inforced Arm-holes Every piece of "DOVE" Underwear, including Envelope Chemises, etc., has re-inforced arm-holes. This prevents wearing out at the arm-holes.

Prices You can buy "DOVE" Underwear at prices ranging from [illegible] per garment. There is a "DOVE" garment at every price.

In stores everywhere there is a complete line of "DOVE" Underwear.

D E SICHER & CO
Manufacturers of Underwear
45 & West 21st St
New York

An Added Grace to your Beauty
Djer-Kiss

The most beautiful Thorough-bred White Scotch Collies in the World

Photos and prices on request
Satisfaction guaranteed. *No. 457*

THE SHOMONT
Monticello Iowa

HOME FOR DOGS

AT WOODSIDE, LONG ISLAND

[illegible] from [illegible] Ave. and 52nd St. conducted exclusively for boarders. Established 20 years. Unsurpassed for pet and sporting dogs. [illegible] Has been assumed by [illegible]

MRS. W. BATTS
The Kennels Woodside, Long Island (near Woodside Station, Phone 93 Newtown

---

POLICE DOGS:

Write today for [illegible] of our famous [illegible] ale now. We [illegible]

PINE HILL VIEW KENNELS BUFFALO, N. Y.

PEKINGESE

Fifty grown dogs and puppies, all ages, colors, large number imported. Many "sleeve" specimens. Champion bred and [illegible] from the first Kennels of England and America. Some as low as $35. Write for descriptions and pictures

MRS. H. A. BAXTER
GREAT NECK, L.I. 489 FIFTH AVE
Tel. 418 Tel. 1236 Vanderbilt

AIREDALE TERRIERS

Champion Soudan Swiveller at Stud. Fee $25.00

He is the Sire of the following famous Airedales: Champion Abbey King Nobbler, Champion Gold Heels, Champion Kirk Patricia

Puppies and grown stock for sale. I ship on approval

Brayvent Kennels, 232 Clark Street, Westfield, N. J.
Thomas K. Bray Phone 4243M Westfield

Cocker Spaniels

Puppies [illegible] and [illegible]

J. B. MEEKER
Saginaw Farm, Chelsea-on-Hudson
New York

AIREDALE TERRIERS

"The One Man Dog"

An Airedale Terrier is the **Dog Supreme for Companionship, for Watch Dog purposes, and Surpasses Every Other Dog on Earth as a Companion for Children.** The all round dog of the times for city or country, **a Useful Canine Citizen.**

We Offer country bred, farm raised puppies from registered thoroughbred stock, a full grown male, and a full grown female already [illegible] by a registered stud

"The Dog That Thinks"

At Stud: International Champion Kootenai Chinook, the Only American Bred International Airedale Champion on Earth. Fee $25. Also puppies by this sire for sale

Prompt shipment Safe delivery Satisfaction guaranteed

Illustrated Booklet and Price List Upon Request

Vibert Airedale Farm, Box 4a **Weston, N. J.**

Largest Exclusive Airedale farm in the world Phone [illegible]

The Rabies Virus Journal

'Ever-Ready' Army Razor

THIS dollar khaki kit is an achievement. It's the favorite razor "over there" and "over here." Give it the "once over." Compact, waterproof case—10-year guaranteed frame and three razor-keen Ever-Ready Blades. The joy shave of millions.

Ask for 'Ever-Ready' Blades or send by direct mail, where sold by dealers everywhere, using the Coupon, England and France

AMERICAN SAFETY RAZOR CO., Inc.
Bayonne, N. J.
Also makers of the famous line of Ever-Ready Shaving Brushes

Your Glass of Coca-Cola

represents materials allotted and authorized by Mr. Hoover and your Government after conservation has taken its heavy toll. The Coca-Cola Company accepts its war duty as a privilege and, although reduced in output, is endeavoring to maintain its usefulness as industry.

We address ourselves to common justice in requesting you, if you order Coca-Cola, to insist upon the genuine. Don't let a subtle imitation creep in to take advantage of our shortened output by passing itself off as a substitute.

When you order, order by its full name —Coca-Cola, and accept nothing else.

To the Dealer:

[redacted]

Drink

Coca-Cola

Delicious, Refreshing

A pure gift of nature

Supplied by U.S. Gov't. to Army–Navy

Allies

GEM
DAMASKEENE RAZOR
Khaki
Service Outfit

Under every allied flag, in every clime, in every branch of the service, the popular **GEM Khaki Service Outfit** has proved itself the staunch, dependable friend of right action. Strong, light, compact; designed especially for military and naval use. Affords a luxurious, quick, easy shave anywhere, anytime, in the trenches, on shipboard—anywhere under all conditions. Blades are in dust and rust proof, wax-paper wrapped package, sealed

Separate Set Gem Blades 7 for 50c

More than twenty-five years old— Millions of Gems in use today.

$1.00 without Trench Mirror

Gem Military Outfit includes razor complete with two Gem Damaskeene Blades and Stropping Handle.

$1.35 with Trench Mirror

Complete Compact

Ask for the GEM at your dealer, or the Post Exchange, Camp Canteens, or Quartermaster's Depot.

Gem Cutlery Company, Inc. New York

Canadian Branch, 591 St. Catherine St W Montreal

THE CHILDREN'S CHRISTMAS THIS YEAR

The Easily Made Christmas Doll That Fits the Times

Dolls Dressed in the Costumes of Our Allies

For Gifts or Bazaars: By Jane Porter

A good seller for a bazaar. Children both old and young will love our little Scotch soldier in his Highland costume

The Serbian lady on the left is fetching in her gown with short blue bodice with brown braid and bright red kerchief over the stiff green hat

The little Russian lady on the right is also gay in color. Her coat is red and her apron made of bits of skin and the sleeves of her waist outlined in cross-stitch in bright colors

The Chinese boy is sure to bring a smile to everyone's face—he is so very serious. Odd bits of silk or ribbon can be used to make his costume

Our little Welsh doll with her bright red hood and her stiff black hat and basket makes you think of Little Red Riding Hood, does she not?

And who could resist this pair? The little Yankee soldier is telling his new French brother, the Blue Devil, what he is sent here to the end

Both the American soldier child at home and the little Devil in horizon blue are sure to attract attention and will be sent separately or as a pair

The children will love the Red Cross doll in her gray dress with white apron. Her cape is trimmed with bright red, as much admired by all France

Here is a little Alsatian maid with her friend from Brittany. The headdress of each is quaint, the most characteristic feature of the costumes is that the bow of the Alsatian child is black, as is the cap of the Brittany child. These are never in color

You all know the little Japanese lady in her bright flowered dresses made of bits of ribbon, with a broad sash which is made of cheese-cloth cut

The little Italian flower girl has a purple cotton skirt, with a bit of Roman striped ribbon as an apron. Her headdress is white and reaches to the waist at the back

Our brave little sailor boy is sure to bring his new little Belgian friend Suzanne, that things will soon be better now that he is there. Her shoes are red, her apron brush and the cap and narrow part of her waist yellow with a black edge

I use this cream because it adds a charm to the skin that is intensely gratifying

THE experience of many well-groomed women proves that *soft skin* never roughens or chaps and that in this Cream there is something that makes the skin soft almost as soon as it is applied. I always use

The skin *stays soft* and velvety all the time by simply using a little every day. Then, too, I find it keeps the skin texture so fine and clear and refreshed that I'm always happy in knowing my complexion is admired. My hands and arms never redden or chap after motoring or other outdoor exposure. I rub on a few drops of

Hinds Honey and Almond Cream

before going out and sometimes on returning. It's not a bit sticky or greasy. You'll enthuse over it also, after a few weeks' use. It will prove to be *a real necessity*

Hinds Creamis Talcum, like the scent of old-time gardens, softens with its delicate fragrance and velvety texture. Its pleasures and comforts are now shared by a legion of mothers and babies.

Hinds Cream Soap is nothing like the delicate, luxurious creamy lather quickly by the mineral cleansing and softening effect of its creams. Lather. Equally good as a shaving soap.

Many women are writing for SAMPLES. Be sure to enclose stamps with your request. 2c for Cream, 6c for trial cake of Soap, 3c for miniature can of Talcum.

A. S. HINDS, 200 West Street

When Johnny comes marching home

He has cleaned up over there.

The Croix de Guerre and the D. S. Cross jingle on his khaki blouse.

And now the job is done, he is looking toward the setting sun—thinking of the big home-coming.

On this side every one of us is ready with the glad hand of welcome.

Howdy, Boy! We're PROUD of you!

HENDEE MANUFACTURING COMPANY
Springfield, Massachusetts

W.S.S

Indian Motocycle

"Three times to the cleaners"

and you've paid for it all over again

"HAVE you seen Louise's dear little georgette blouse?

"She came in wearing it one afternoon. I admired it and showed her my new crepe de Chine.

"'But isn't it wicked,' I said, 'to have to send it to the cleaner's? By the time you have had it cleaned three times, you have paid for it all over again.'

"'You don't mean to say you send it to the cleaner's!' she said.

"'Yes!' I answered, 'you wouldn't trust crêpe de Chine to soap and water, would you?'

"'Of course not,' she said. 'I use Lux.'

That is the way the story of Lux is carried from one woman to another. As a matter of fact, Lux is the most modern form of soap—but it is so different from anything you have ever known as soap that you think of it as something in a class entirely by itself.

And that is precisely what Lux is. *There is "nothing like it"* you hear whenever Lux is mentioned.

The miracle of Lux is that it comes in delicate, transparent pure flakes which dissolve the moment you drop them into hot water. Immediately you whisk them into a foamy, bubbling ether, then add cold water until lukewarm. Into the rich suds you drop your most delicate blouse.

Afraid? Not for a second!

Lux never hurt anything that pure water alone would not injure.

Then let your blouse soak for a few minutes. *Never a bit of rubbing.* You simply dip your blouse up and down and press the gentle cleansing suds again and again in through the precious fabric. Every speck of dirt melts away into the suds without a bit of injury to a single delicate thread. Your blouse comes out just as new and fresh as the day you bought it.

It isn't washing that hurts sheer fabrics. It's rubbing soap on them, and rubbing them again to get out the soap and dirt that wears and tears them—takes away their finish with the first washing.

Every woman who tries Lux wonders how she ever could have rubbed cake soap on anything she valued.

Now she buys the dainty things she loves to have and wears them often. They are not a bit of care or expense to her. She keeps them fresh and new the Lux way with no rubbing.

Try Lux in your home. Get it today from your grocer, druggist or department store.—Lever Bros. Co., Cambridge, Mass.

Cleanse these things yourself with Lux

Sweaters
Baby's Woolens
Silk Underwear
Silk Stockings
Washable Gloves
Collars
Fine Table Linens
and Petticoats
Crêpe de Chine Blouses

LUX

Even in hard water Lux makes wonderful suds

Sweaters soft and unshrunken!

"I have a white sweater which has been washed several times with Lux and it is still white and fine—not shrunken."—Mrs. F. W. B. Pratt Harding, Penn.

The children's things like new

"I washed a child's white corduroy coat with Lux and it looked as good as new. It was very dirty, and I didn't have to rub it at all."—Mrs. F. W. Gordon, Portland, Me.

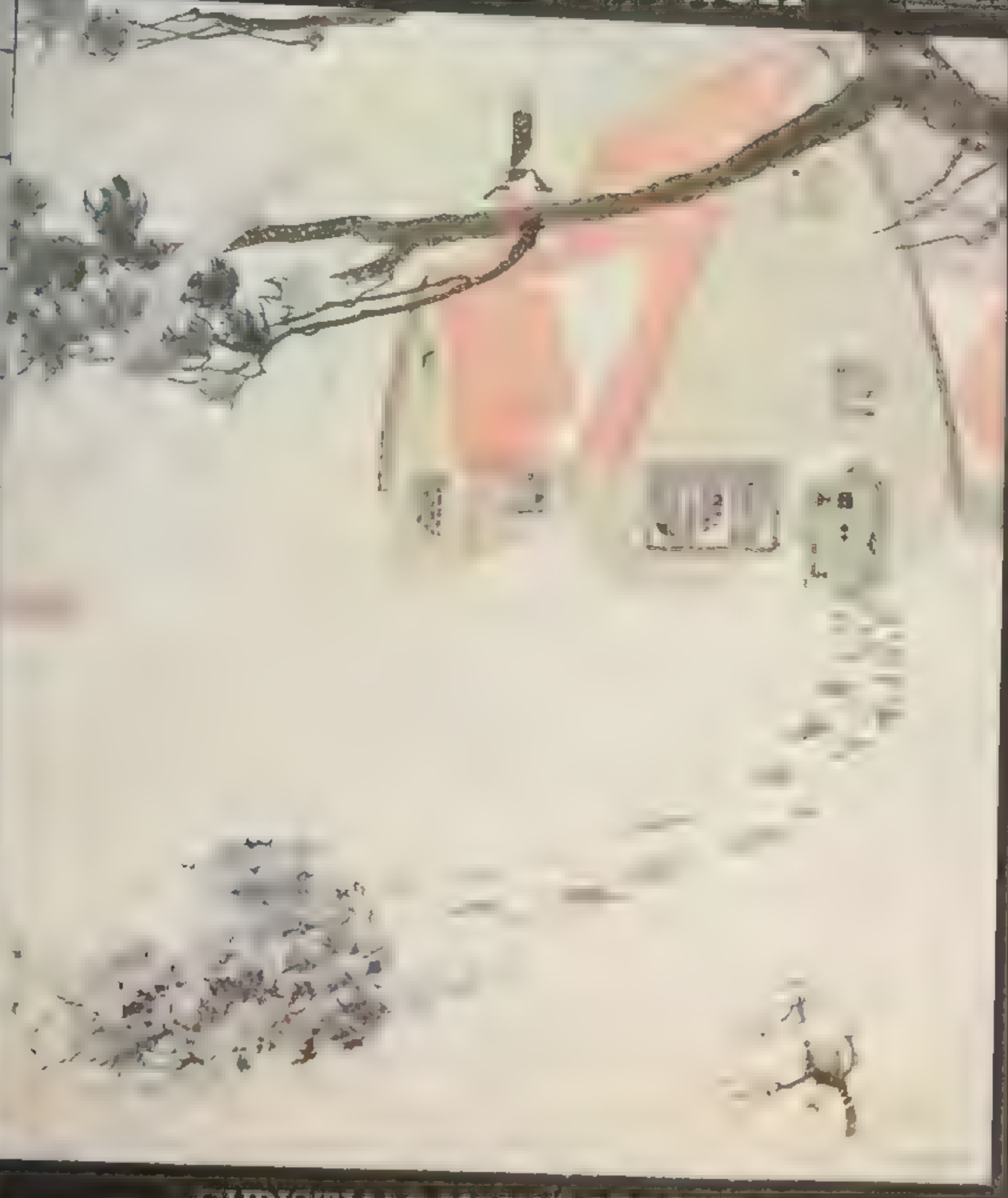
Woman's Home Companion

December 1918

Twenty Cents

Christmas Number

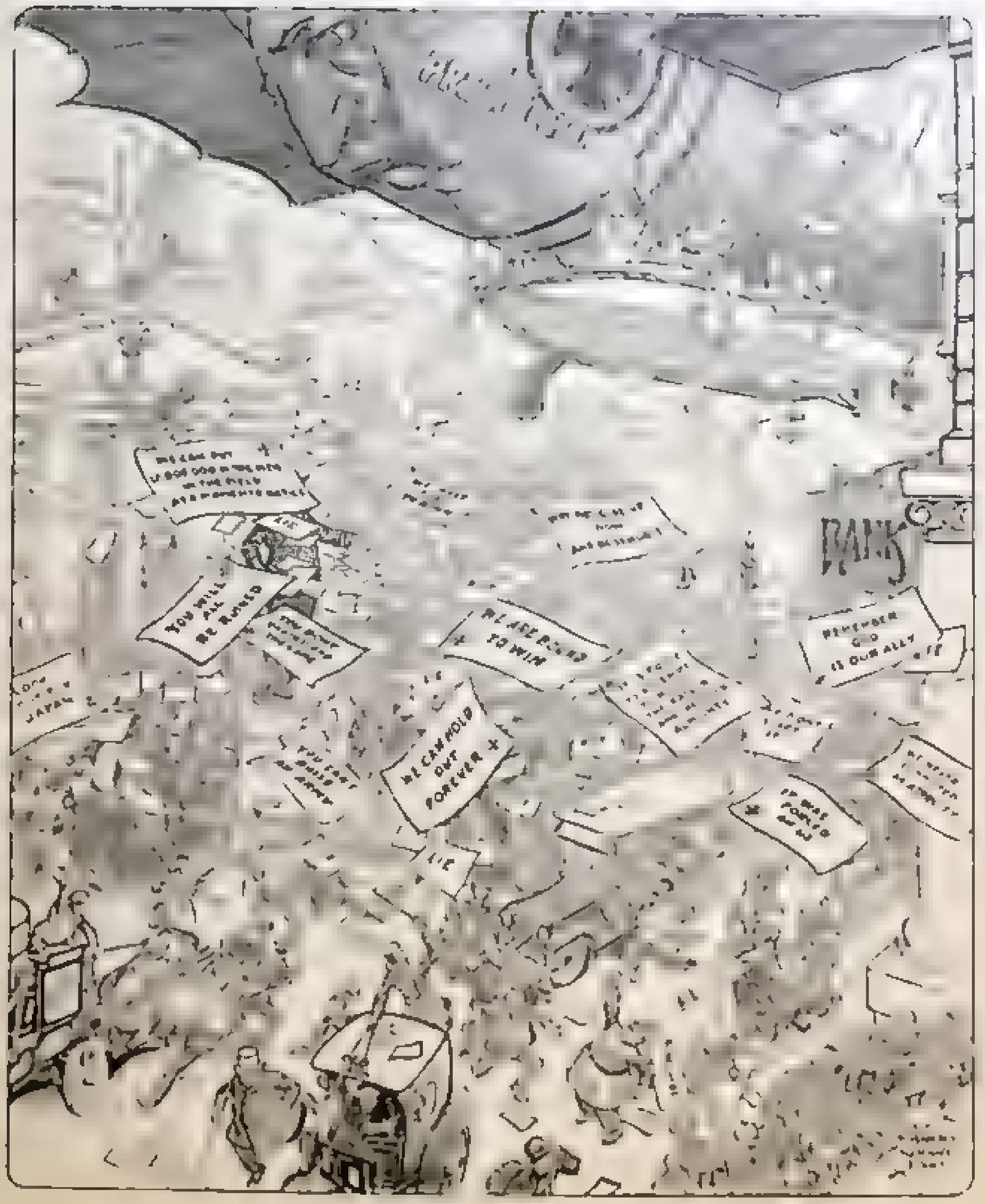
House & Garden



CHRISTMAS HOUSE NUMBER

PRICE 35 CENTS

[redacted]



THE HOT-AIR RAID

[redacted]

THE SADOWMAN'S DREAM

Make this a Red Cross Christmas

AMERICA'S second war-time Christmas is almost here. Our thoughts, our interests, our hearts are not in the trivial things now—they are with the boys in France, and our war-tried Allies.

Their thoughts, their interests, their hopes are in the Red Cross and the knowledge that it is ever present and ready to lend them aid most needed

Let our Christmas message to [illegible] loved ones be that we stand solidly behind the American Red Cross—that there is full membership in every American home. No other word we can send will give them greater encouragement, or fortitude for that which must be accomplished.

All you need is a heart and a dollar

Red Cross Christmas Roll Call December 16-23

The Ladies' Home Journal

Painted by André Castaigne - Knight of the Legion of Honor

DURATEX

No stronger guarantee of its quality could be written than the war department's approval of DURATEX for the upholstery of the air planes and motor trucks Uncle Sam is sending to France to help make the world safe for democracy DURATEX is the finest and most practical upholstery material made

THE DURATEX COMPANY Newark, N.J. Ira A. Kip

The Ladies' Home Journal

15 CENTS

NOVEMBER, 1918

PRICE, 25 CENTS

OUTING

NOTICE TO READER—When you finish reading this magazine, place a one cent stamp on the outside wrapper and it will be placed in the hands of our soldiers or sailors destined to go overseas. No wrapper. No address. A. S. Burleson, Postmaster General.

Y.M.C.A. in THERE

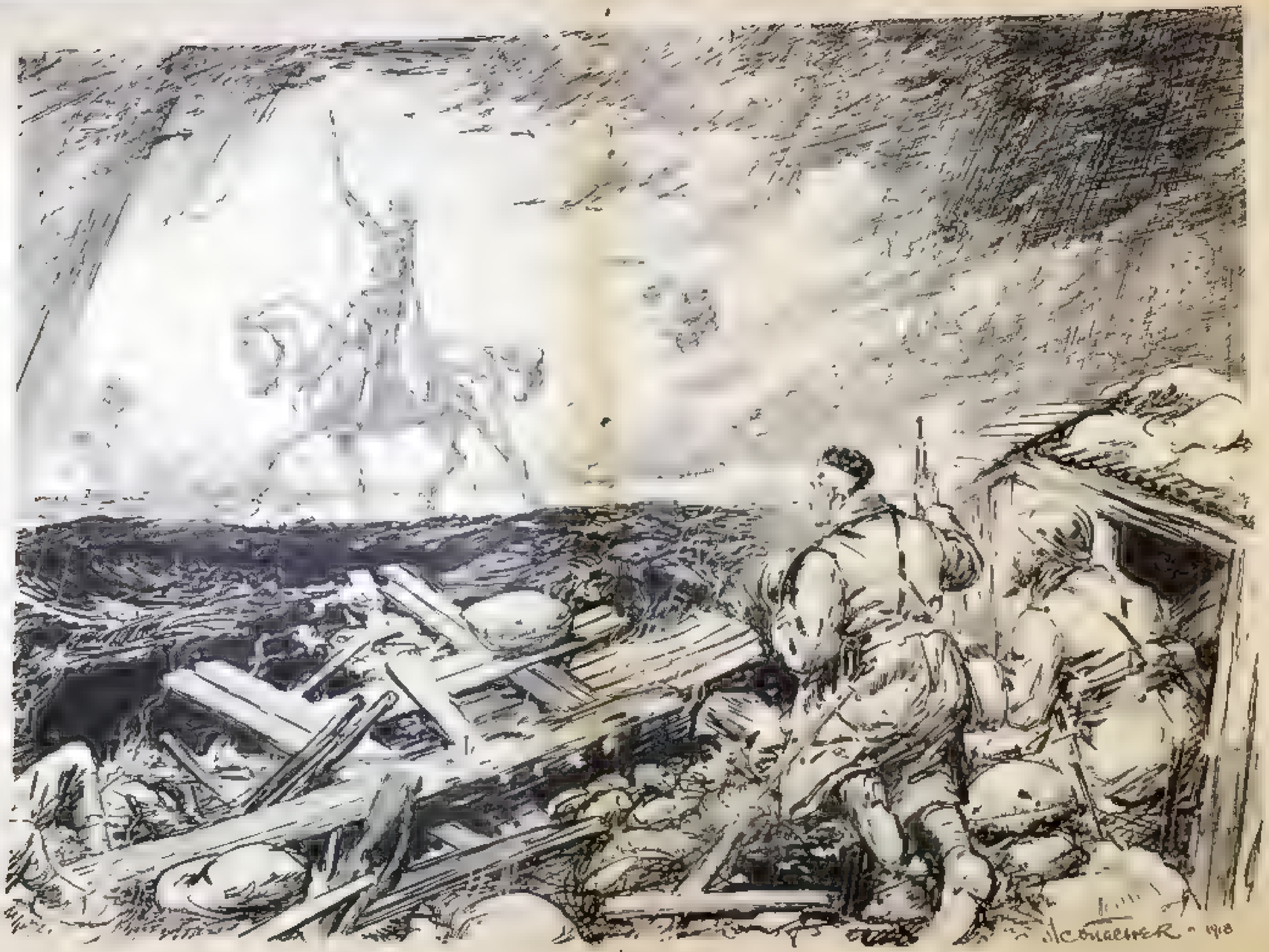
The Y. M. C. A. on the Job

Up the Saranacs

How Our Soldiers Carry Their Ammunition

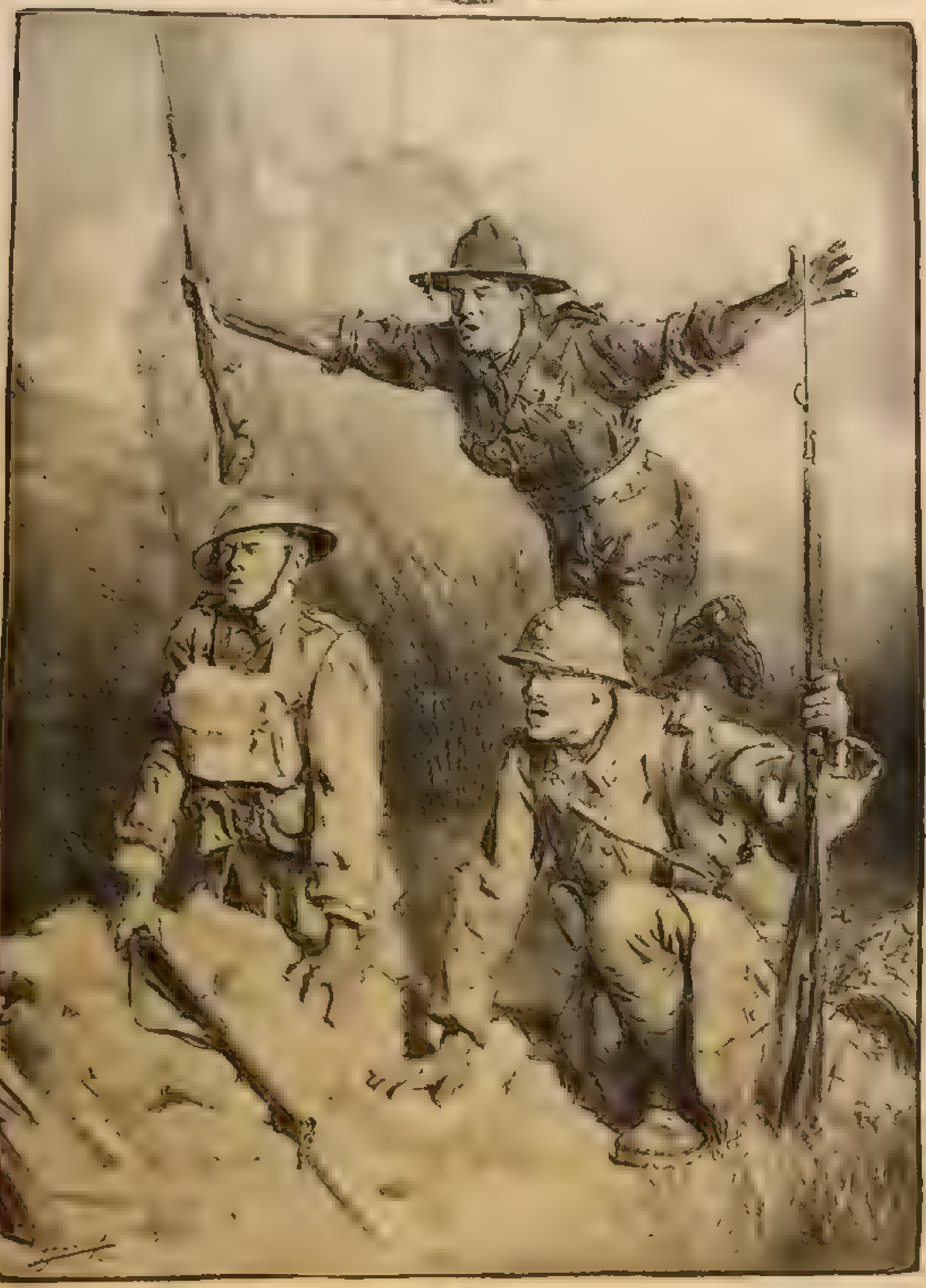
The Guide and His Party

LIFE



[France Eternal]

THE WIDOW'S MITE

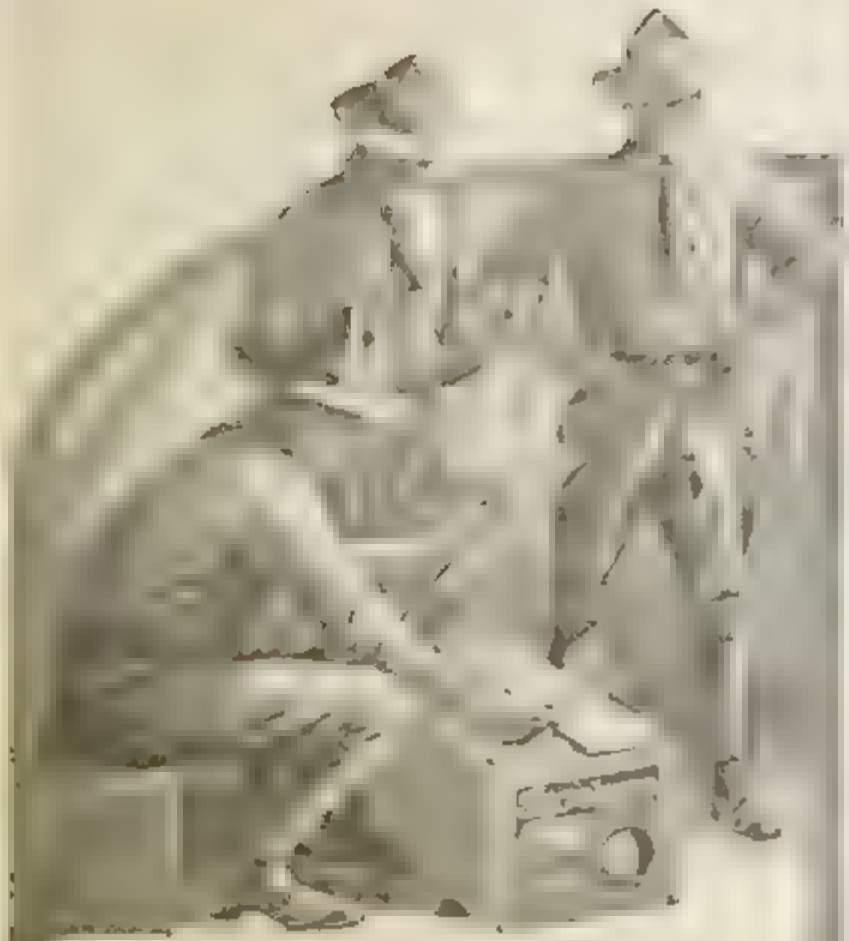


HOLD THE LINE—WE'RE HERE!"

From the Original Drawing by Lucien Jonas

How Famous Movie Stars Keep Their Hair Beautiful

MURAD
THE TURKISH CIGARETTE
MURAD
THE TURKISH CIGARETTE
S. ANARGYROS
Special Xmas box Murad Turkish Cigarettes for Soldiers and Sailors
"Wish I could put a package of MURAD in every soldier's and sailor's pocket."



Send Him a Box of

Skookum Apples

Skookum Apple Allies

NORTHWESTERN FRUIT EXCHANGE

[illegible] West Street . New York City

Seattle, Wash.

POLICE GOODS

✣ TOWER'S PATENT FLUTED POLICE CLUBS AND BATONS

Locust Wood

	Each
✣ No. PL22—22 inches	$1.30

Rosewood

Nos.	✣PR16	✣PR18	✣PR20	✣PR22
Lengths, inches	16	18	20	22
Each	$1.80	2.00	2.20	2.40

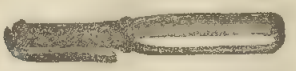
Loose

Cut Shows No. F26.

LOCUST SERVICE CLUB

	Each
✣ No. P26—Locust Wood, Plain Grip, 26 inches	$1.00
✣ No. F26—Locust Wood, Fluted Grip, 26 inches	1.50

Loose



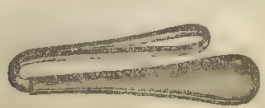
BEAN'S PATENT FLEXIBLE POLICE CLUBS

The Club is made of Sole Leather, cut to required Form, and brought together under heavy Pressure over Elastic Steel Spring Wires, Cemented and Riveted, and covered with the same Material, securing a perfect Surface without Break or Seam, and very slightly Elastic; over this, to form the Handle, a Cover is neatly Braided. A Swivel is secured in the end, through which the Strap is passed. It is Neat and Ornamental, has an easy feeling in the Hand, and a Firmer Grip can be had upon it than on any Wooden Club. It cannot be broken, and will last a Lifetime. It has been thoroughly tested, and is Endorsed as at once the most Effective and Humane Club in use. Adopted by many Prominent Police Departments at Home and Abroad. Every Club Fully Warranted.

Diameter 1½ inches, All Lengths

	Each
No. B4—Length 8 inches; Weight 9 ozs.	$3.00
No. B5—Length 10 inches; Weight 10 ozs.	3.50
No. B6—Length 12 inches; Weight 12 ozs.	4.00
No. B7—Length 14 inches; Weight 14 ozs.	4.50

Loose



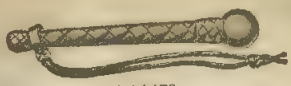
BILLIES

Good Quality Cowhide; Shot Loaded; Linen Sewed; 9 inch Cowhide Sling.

	Per Dozen
No. 1—Length 8½ in.; Russet Color; Weight per Doz. 7 lbs.	$16.00
No. 2—Length 9½ in.; Black Color; Weight per Doz. 8½ lbs.	20.00

Loose

POLICE GOODS

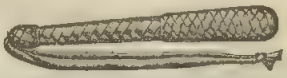


BILLIES

Per Dozen

No. 3—Solid Lead Ball; Russet Cowhide Leather, Covered; Stiff Rattan Handle; Covered with Braided Leather; 8 in. Cowhide Sling; Length of Billie 8 in.; Weight per Doz. 3½ lbs. $18.00

Loose



BILLIES

Per Dozen

No. 4—Solid Lead Ball; Russet Braided Cowhide Leather, Covered; Flexible Braided Leather Handle; 7½ in. Rawhide Sling; Length of Billie 9½ in.; Weight per Doz. 5½ lbs. $42.00

Loose

SLUNG SHOTS

Per Dozen

No. 5—Shot Loaded; Good Quality Russet Cowhide, Covered; Linen Sewed; 7 in. Cowhide Sling; Length of Body 4 in.; Weight per Dozen 5½ lbs. $14.00

Loose

METAL GLOVES OR KNUCKS

★DIAMOND BRAND

New Style

Per Dozen

No. 10—Malleable Iron; Bronzed; Weight per Doz. 3¾ lbs. $4.00

No. 20—Malleable Iron; Nickel Plated; Wt. per Doz. 3¾ lbs. 4.00

No. 30—Aluminum, Polished; Weight per Doz. 1¾ lbs. 9.00

One Dozen in a Box

POLICE LANTERNS

SLIDE

Heavy Tin, Japanned; with Knob to operate Slide at Bottom; Burns Lard Oil; Fount holds ¼ Pint, Convex Lens Height 7½ inches; Diameter of Base 3½ inches.

Per Dozen

No. 30—2½ inch Lens; Weight per Dozen 11 lbs. $16 80

No. 35—" inch Lens; Weight per Dozen 12 lbs. 21.00

Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, New York, N. Y.

POLICE GOODS
HANDCUFFS

BEAN'S GIANT

Extra Large, Strong and Well Made; for Unruly or Fractious Prisoners; this Style of Cuff is the Best and Most Secure Restraint; Locks the Hands Securely with no Possibility of Picking Lock; Hands Cannot be Used in any Manner Whatever. Per Pair

No. 00—Nickel Plated Steel; with Key; Weight per Pair 12 ozs. $11 00

One Pair in a Box

Per Dozen

Extra Keys **No. BK** **$4 50**

Loose

IMPROVED BEAN'S PATTERN

These Handcuffs are Made to Meet the Demand for a Handcuff Combining Superior Quality with Very Light Weight, Overcoming the Defects of the Old Style Bean's Cuff; Locks Cannot be Forced or Repaired when Cuff is Open; When Closed the Locks Cannot be Picked or Put Out, Nor Can the Cuff be Unlocked by Accident or Without the Key; Can be Unlocked from Either Side; Connecting Swivel Locks at Either End; Weight 15 ozs. with Key. Per Pair

No. 1—Polished Steel **$5.50**

No. 1N Nickel Plated Steel **6.50**

One Pair in a Box

Per Dozen

Extra Keys **No. BK** **$4 50**

Loose

TOWER'S ADJUSTABLE DOUBLE LOCK WITH PATENT LOCK

The Patent Stop Prevents Locking by Effort of the Prisoner or by Accident, before the Handcuffs are Closed on the Limb. When in use, the Forward End of the Stop Projects Above the Surface of the Bow, and while Allowing the Bow to Enter the Lock Frame, Stops it before the Bolt has Passed into the Notches. When Closing the Shackle on the Limb of a Prisoner, a Slight Pressure on the Top Is Simply Passing a Finger Over it When Ready to Lock—Depressed Even with the Surface of the Bow, Which Then Passes Through and Is Self-Locked; Weight 18 ozs. with Key. Per Pair

No. 2—Polished Steel **$7 00**

No. 2N—Nickel Plated Steel **8 00**

One Pair in a Box

Per Dozen

Extra Keys **No. TK** **$4 50**

Loose

TOWER'S DETECTIVE

Extra Light Weight; Adjustable, Self Locking; Secure and Strong; These Handcuffs are Designed to Meet the Demand for a Very Light Weight Shackle, for Those Officers, Detectives and Others who are Required to Have Their Implements Always with Them, and Find a Few Ounces Saved in Their Weight a Matter of Convenience and Comfort; Self acting Bolt which Cannot be Forced and a Lock so Guarded as to Give Ample Security; Weight 12 ozs. with Key. Per Pair

No. 3—Polished Steel **$7.00**

No. 3N—Nickel Plated Steel **8 00**

One Pair in a Box

Per Dozen

Extra Keys **No. TK** **$4 50**

Loose

POLICE GOODS
NIPPERS

TOWER'S

To Clasp the Wrists in Making Arrests; Convenient to Carry; Always Ready for Use and an Admirable Substitute for the Common and Often Clumsy and Unreliable Device of Twine, Catgut, etc.

Each

No. T—Best Welded Steel Chain; Forged Steel Hand Grips; Nickel Plated and Polished; Weight 4 ozs **$3.60**

One Dozen in a Box

PHILLIPS

Improved Pattern; Readily Applied; Works Easily with One Hand and Gives Officer Complete Control of Prisoner; Strong, Reliable and Light to Carry.

Each

No. P—Forged Steel; Tempered Steel Spring; all Nickel Plated and Polished; Weight 4 ozs **$1.80**

Half Dozen in a Box

LEG IRONS

IMPROVED BEAN'S PATTERN

Same Style Locks as on Bean's Handcuffs and Cannot be Unlocked by Accident or Without the Key; Forged Steel Shackles and Welded Steel Chain; Weight 1½ lbs. with Key.

Per Pair

No. 100—Polished Steel **$9.00**

One Dozen in a Box

TOWER'S PATENT IMPROVED ADJUSTABLE; WITH DOUBLE LOCK

Same Style Lock as on Tower's Handcuffs and Cannot be Picked or Forced; Absolute Security. Forged Steel Shackles and Welded Steel Chain; Weight 3 lbs. with Key.

Per Pair

No. 50—Polished Steel **$10.00**

One Dozen in a Box

TWISTER HOLDER

Designed to Hang from Trouser Button; Out of Sight, Ready for Immediate Use, Nickel Plated.

Per Dozen

No. TH—Twisted Leader; Weight per Dozen 14 ozs. **$3 50**

One Dozen in a Box

CROQUET

★DIAMOND BRAND

Choicest Quality and Finish; Only Select Materials are Used, and Balls Especially are Turned from Perfect Timber, Free from Knots, Cracks, and Other Imperfections.

Specifications

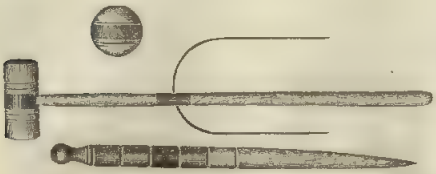
Mallets and Handles are Finished with Broad Color Bands and Ornamented with Fine Stripes.
Balls—Maple, with Two Color Stripes; Nicely Varnished.
Stakes—Beaded
Wickets—Flat Top Galvanized Wire Wickets
Box—Basswood, Lock Cornered with Hinge Cover.

Per Set

No. 340—Four Ball Set; Weight per Set 17 lbs..... **$4 00**

No. 380—Eight Ball Set; Weight per Set 24 lbs.. . . . . **6 00**

Three in a Crate



Specifications

Mallets—5 inch Beaded and Fancy Striped.
Handles—28 inch Turned and Ornamented with Broad Color Stripe.
Balls—Nicely Decorated with Fine Lines and Color Bands.
Stakes—Large Grooved Stakes with Colored Bands.
Wickets—Galvanized Round Wire Arches.
Box—Good Grade Stock, Lock Cornered with Hinged Cover, Mitred Handles.

Per Set

No. 280—Eight Ball Set; Weight per Set 15 lbs..... . . **$4 00**

Three in a Crate

CROQUET

★DIAMOND BRAND

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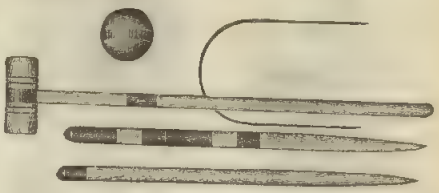


Specifications

Mallets—5 inch Beaded and Striped.
Handles—Turned and Varnished.
Balls—Rock Maple with Single Color Bands.
Stakes—Two Stakes, One with Full Set of Color Bands and One with Red Top.
Wickets—Galvanized, Round, Wire Arches.
Box—Lock Cornered, Flat Top with Hinged Covers and Mitred Handles.

Per Set

No. 180—Eight Ball Set; Weight per Set 20 lbs..... ..... **$3.50**

Three in a Crate

Specifications

Mallets—5 inch Beaded and Striped.
Handles—Turned and Oiled.
Balls—Rock Maple with Single Color Band, Varnished.
Stakes—Two Stakes, One with Full Set of Color Bands, and One with Red Top.
Wickets—Tan Galvanized, Round Wire Arches.
Box—Lock Cornered, Flat Top with Hinged Cover and Mitred Handles.

Per Set

No. 40—Four Ball Set; Weight per Set 14 lbs..... .... **$1 60**

No. 60—Six Ball Set; Weight per Set 16 lbs. **2 20**

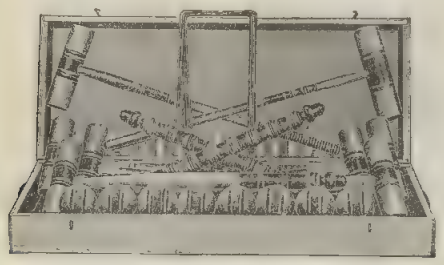
No. 80—Eight Ball Set; Weight per Set 20 lbs.. .... **3.00**

Three in a Crate

CROQUET
*DIAMOND BRAND

Professional Sets

Choicest Quality and Finish; Only Select Materials are Used, and Balls Especially are Turned from Perfect Timber, Free from Knots, Cracks, and Other Imperfections.



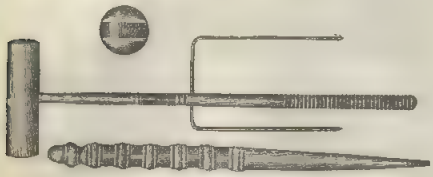
Specifications

Mallets—8 inch Beaded and Fancy Striped.
Handles—Beaded, 28 inches Long.
Balls—White Maple, Fancy Stripes.
Stakes—Heavy Beaded with Fancy Stripes and Gold Decoration on Beads.
Wickets—Flat Top, Heavy Coppered Wire with Socket.
Box—Sycamore, Beautifully Finished, Brass Handles.

Per Set.

No. 580—Eight Balls; Weight per Set 27 lbs. $8 50

Three in a Crate



Specifications

Mallets—8 inch Hand Turned, Polished and Finished in White Shellac.
Handles—28 inch, Beaded and Beautifully Finished with Bronzed Stripes.
Balls—Selected White Maple; Hand Striped.
Stakes—Heavy Beaded with Two Color Decoration on Head in Addition to Colored Bands.
Wickets—Flat Top, Aluminum Finish, with Sockets.
Box—Sycamore, Finished with Partitions for the Balls; Equipped with Brass Handles

Per Set

No. 640—Four Balls, Weight per Set 17 lbs. $5 50

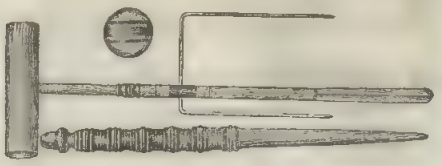
No. 680—Eight Balls; Weight per Set 27 lbs. 10 00

Three in a Crate

CROQUET
*DIAMOND BRAND

Professional Sets

Choicest Quality and Finish; Only Select Materials are Used, and Balls Especially are Turned from Perfect Timber, Free from Knots, Cracks, and Other Imperfections.



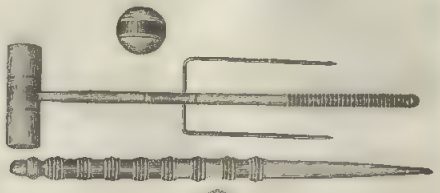
Specifications

Mallets—9 inch; Polished with Shellac Finish.
Handle—28 inch Octagon, Striped in Gold and Black.
Balls—Selected Clear Stock, Hand Striped.
Stakes—Heavy Beaded Stakes; Beautifully Decorated with Sage Green and Gold on Head.
Wickets—Flat Top Arches; Finished in Aluminum, with Sockets.
Box—Sycamore; Polished, and Equipped with Brass Handles, Partitioned Sections.

Per Set

No. 840—Four Balls, Weight per Set 17 lbs. $7 00

Three in a Crate



Specifications

Mallet—7 inch Beaded Fancy Striped Mallets.
Handles—28 inch Beaded Handles.
Balls—Selected Hard Maple; Decorated with Fine Black Lines on Each Side of Color Band.
Stakes—Fancy Beaded with Gold Decoration on Beads.
Wickets—Flat Top, Coppered Wire with Sockets.
Box—Selected Basswood with Japanned Iron Handles.

Per Set

No. 440—Four Ball Set; Weight per Set 16 lbs. $4 50

Three in a Crate

CROQUET
*DIAMOND BRAND

Professional Sets

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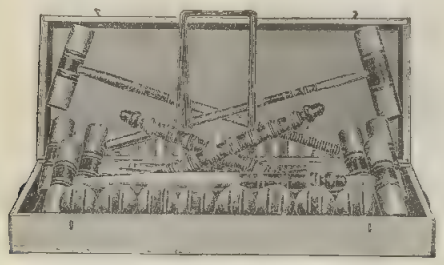


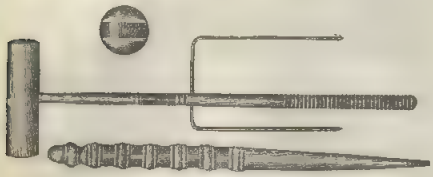
Specifications

Mallets—8 inch Beaded and Fancy Striped.
Handles—Beaded, 28 inches Long.
Balls—White Maple, Fancy Stripes.
Stakes—Heavy Beaded with Fancy Stripes and Gold Decoration on Beads.
Wickets—Flat Top, Heavy Coppered Wire with Socket.
Box—Sycamore, Beautifully Finished, Brass Handles.

Per Set.

No. 580—Eight Balls; Weight per Set 27 lbs. $8 50

Three in a Crate



Specifications

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Handles—28 inch, Beaded and Beautifully Finished with Bronzed Stripes.
Balls—Selected White Maple; Hand Striped.
Stakes—Heavy Beaded with Two Color Decoration on Head in Addition to Colored Bands.
Wickets—Flat Top, Aluminum Finish, with Sockets.
Box—Sycamore, Finished with Partitions for the Balls; Equipped with Brass Handles

Per Set

No. 640—Four Balls, Weight per Set 17 lbs. $5 50

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Three in a Crate

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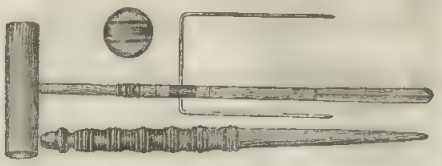

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Balls—Selected Clear Stock, Hand Striped.
Stakes—Heavy Beaded Stakes; Beautifully Decorated with Sage Green and Gold on Head.
Wickets—Flat Top Arches; Finished in Aluminum, with Sockets.
Box—Sycamore; Polished, and Equipped with Brass Handles, Partitioned Sections.

Per Set

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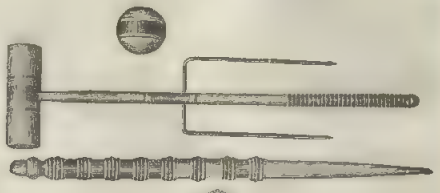
Three in a Crate



Specifications

Mallet—7 inch Beaded Fancy Striped Mallets.
Handles—28 inch Beaded Handles.
Balls—Selected Hard Maple; Decorated with Fine Black Lines on Each Side of Color Band.
Stakes—Fancy Beaded with Gold Decoration on Beads.
Wickets—Flat Top, Coppered Wire with Sockets.
Box—Selected Basswood with Japanned Iron Handles.

Per Set

No. 440—Four Ball Set; Weight per Set 16 lbs. $4 50

Three in a Crate

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Choicest Quality and Finish; Only Select Materials are Used, and Balls Especially are Turned from Perfect Timber, Free from Knots, Cracks, and Other Imperfections.

Specifications

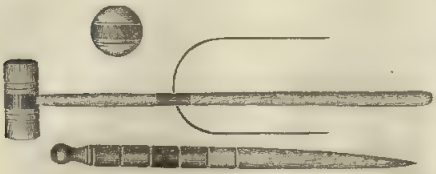
Mallets and Handles are Finished with Broad Color Bands and Ornamented with Fine Stripes.
Balls—Maple, with Two Color Stripes; Nicely Varnished.
Stakes—Beaded
Wickets—Flat Top Galvanized Wire Wickets
Box—Basswood, Lock Cornered with Hinge Cover.

Per Set

No. 340—Four Ball Set; Weight per Set 17 lbs..... **$4 00**

No. 380—Eight Ball Set; Weight per Set 24 lbs.. . . . . **6 00**

Three in a Crate



Specifications

Mallets—5 inch Beaded and Fancy Striped.
Handles—28 inch Turned and Ornamented with Broad Color Stripe.
Balls—Nicely Decorated with Fine Lines and Color Bands.
Stakes—Large Grooved Stakes with Colored Bands.
Wickets—Galvanized Round Wire Arches.
Box—Good Grade Stock, Lock Cornered with Hinged Cover, Mitred Handles.

Per Set

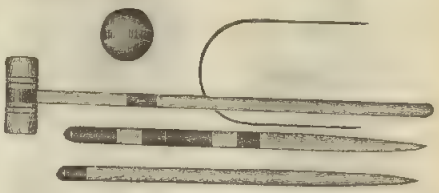
No. 280—Eight Ball Set; Weight per Set 15 lbs..... . . **$4 00**

Three in a Crate

CROQUET

★DIAMOND BRAND

Choicest Quality and Finish; Only Select Materials are Used, and Balls Especially are Turned from Perfect Timber, Free from Knots, Cracks and Other Imperfections.



Specifications

Mallets—5 inch Beaded and Striped.
Handles—Turned and Varnished.
Balls—Rock Maple with Single Color Bands.
Stakes—Two Stakes, One with Full Set of Color Bands and One with Red Top.
Wickets—Galvanized, Round, Wire Arches.
Box—Lock Cornered, Flat Top with Hinged Covers and Mitred Handles.

Per Set

No. 180—Eight Ball Set; Weight per Set 20 lbs..... ..... **$3.50**

Three in a Crate

Specifications

Mallets—5 inch Beaded and Striped.
Handles—Turned and Oiled.
Balls—Rock Maple with Single Color Band, Varnished.
Stakes—Two Stakes, One with Full Set of Color Bands, and One with Red Top.
Wickets—Tan Galvanized, Round Wire Arches.
Box—Lock Cornered, Flat Top with Hinged Cover and Mitred Handles.

Per Set

No. 40—Four Ball Set; Weight per Set 14 lbs..... .... **$1 60**

No. 60—Six Ball Set; Weight per Set 16 lbs. **2 20**

No. 80—Eight Ball Set; Weight per Set 20 lbs.. .... **3.00**

Three in a Crate

Buckets

Labeled Fibre Fire Pails

Fig. 1293

Approved by National Board of Underwriters

This label is a guarantee that every "Labeled" pail has been approved at the factory by the Underwriters' Laboratories of the National Board of Fire Underwriters of the United States.

A reproduction of this label on a card is on file in every insurance exchange connected with the fire underwriters. The card approves these pails as follows:

"Hand fire extinguishers of the above type, shown by examination conducted by Underwriters' Laboratories to be in accordance with the requirements of the National Board of Fire Underwriters and examined at factories and passed by Underwriters' Laboratories, have labels attached. The label is evidence of the proper construction of the appliance at the factory."

The value of this label to factories, mills, railroads, etc., is self-evident. It is proof that, wherever in use, these labeled fire pails are certain to be acceptable to the insurance companies.

[illegible] fire pails are made from galvanized iron, are one solid piece without seams or cracks. There is no metal to rust and become leaky—no staves to warp—bottom can't drop out. Once filled, they remain definitely and are always ready for use when the emergency arises. Although unusually durable, the "Labeled" pails are light in weight.

Round bottom fibre pails . . . . . per dozen

Star Fibre Water Pails

Depth Inches	Diameter at Top Inches	Capacity Quarts	Crate Contains Dozen	Crate Weighs Pounds	Per Dozen
8½	11	10 to 12	1	4	

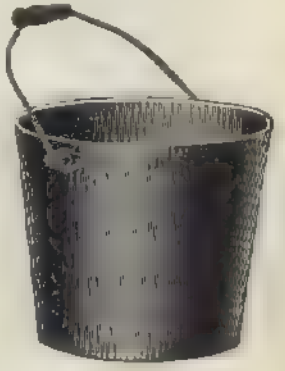


Fig. 1294

Fig. 1295

Standard Pails

Selected pine, oak grained and varnished, copper bail, wood handles

2-hoop, weight per dozen 36 pounds. each

3-hoop, weight per dozen 40 pounds each . .

Live Oak

(O. I. C.) 3-hoop, solid oak, heavy iron handles and hoops flush bottom, very strong.

Buckets

Galvanized Water Pails

Fig. 1 . .
Made in all sizes

Galvanized Round Bottom Fire Pails

Fig. 1 . .

Duplex Folding Water Pails

Fig. 1 . .
No. 12, Open

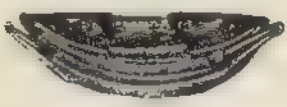


Fig. 1209
No. 12 Folded, Double
Handy to Carry - Never in the Way

The Duplex Water Pails are the only collapsible or folding pails that you can throw water with or that can be set down without losing contents. Rigid, strong and simple, they occupy less space when folded than any other. Made of heavy brown canvas, waterproofed. Metal parts are spring steel, rust-proofed. They are watertight in any climate and will not become brittle or decay through use or disuse

Boatmen, campers, horsemen and sportsmen or fire companies, railroads and steamships can appreciate a space-saving water pail.

No. 4. Capacity, 6 quarts; diameter, 10 inches, depth 7½ inches folds into 10¼ x 6 x 2¼ inch space . . . . . each $1.00

No. 12. Capacity, 10 quarts; diameter, 11 inches, depth, 9½ inches folds into 13¼ x 6 x 2½ inch space . . . . . each $1 50

One in a box

The Safety Fire Bucket Tank

Listed by Underwriters' Laboratories, Inc
Accepted and Preferred in Place of Fire Pails and Casks

Fig. 1 [illegible]

Tank made of heavy black iron sheets all galvanized after being made, and japanned in red. Six buckets with self-raising handles submerged into liquid chemical solution

Largely used by mills, lumber yards, factories, warehouses, stores, outbuildings, etc., where an adaptable, economical ready fire protection is desired

No 1. Height 31 inches; diameter, 15½ inches, containing 25 gallons of chemical solution, six 10-quart buckets rubber gasket and stand for tank to rest on

No. 2. Height, 34 inches; diameter, 18½ inches; containing 40 gallons of chemical solution, six 14-quart buckets, rubber gasket and stand for tank to rest on

Fig 1076

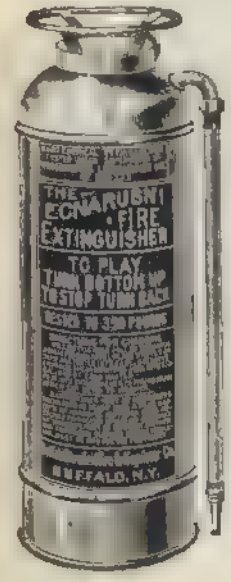


Fig 1071

The Ecnarusni Fire Extinguisher

Ecnarusni fire extinguisher consists of a cylindrical copper tank strongly built to withstand enormous pressure

To operate: The tank is filled with water and bicarbonate of soda, and a small quantity of sulphuric acid is suspended in the cylinder Inverting the extinguisher creates instantly a gas which not only acts as a propelling power for the liquid, but is in itself a solution which smothers fire, and is forty times as effective as one pail of water

The liquid and gas find ready access through a short hose connected to the extinguisher

So much pressure is instantly created by inverting the extinguisher that a durable stream is formed which will shoot fifty feet and lasts from two to three minutes

Pyrene Fire Extinguishers

Fig 1072

Pyrene is non-damaging and non-corrosive

Pyrene is the only effective extinguisher of fires in highly inflammable material—particularly oil or gasoline

Pyrene does not freeze at 50 deg. F. below zero and is good until used, because it does not deteriorate, neither does it evaporate, being enclosed in a sealed cylinder

The Pyrene extinguisher is easily operated and may be refilled as readily as a kerosene lamp. It is handsomely finished and may be carried in our special holder on the dash-board or any convenient point of your car.

Write for Prices

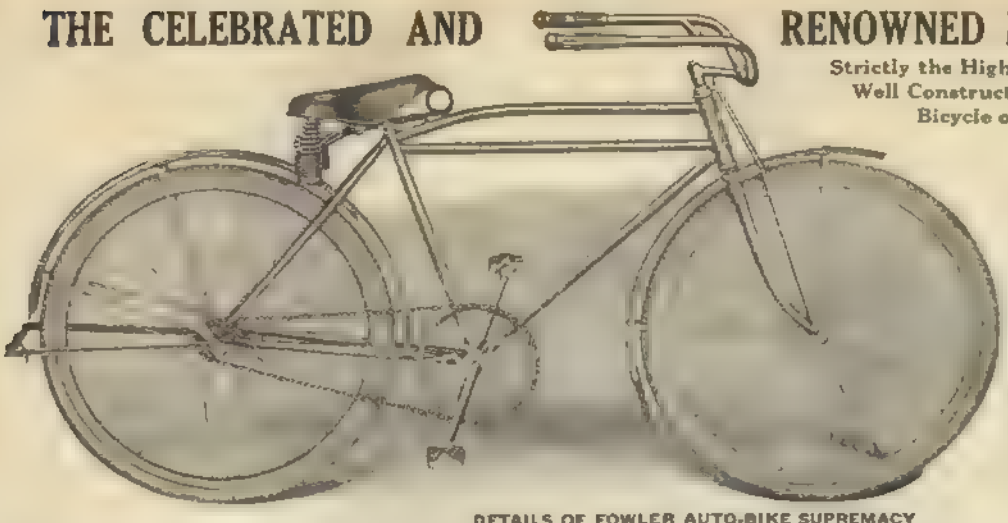
Harden Hand Grenades

Fig 17

One pint. . . . . per dozen $5 00
One quart . . . . . per dozen 7 50

THE CELEBRATED AND RENOWNED FOWLER BICYCLES

Strictly the Highest Grade. Most Durable. Well Constructed and Most Satisfactory Bicycle on the Market today



HAS NO SUPERIORS

We have sold this same make Fowler for years, know the service it performs and the satisfaction it gives, therefore we again contracted with manufacturers

OUR IMMENSE CONTRACT

for bicycles for the coming season represents a BIG SAVING. Enables us to sell you the HIGHEST GRADE (STRICTLY GUARANTEED) Fowler bicycles at prices of second quality bicycles

THE MATERIAL IS OF THE BEST OBTAINABLE

The workmanship and finish is executed with utmost care by skilled mechanics who have been in the bicycle business for years—who know correct material, proper construction and have the ability to produce a bicycle that is right in every detail.

DETAILS OF FOWLER AUTO-BIKE SUPREMACY

This is not a machine designed simply to look like a motorcycle, but as a bicycle of highest quality throughout, especially designed and built for hard road service

In its construction is embodied such features of motorcycle design and equipment as are of practical service

The frame, of motorcycle pattern is especially reinforced to give the greatest possible strength, without excessive weight.

The fork is the truss type similar to that used in many motorcycles.

The handle bar is handsome in design and powerful in construction, the cross section [illegible] and strength

These are [illegible] and are exactly the same as used on many [illegible] makes of motorcycles

While it is not to be understood that this is an exceptionally heavy bicycle, it is built of extra heavy material and is safely believed to be the strongest, most durable and at the same time one of the lightest running bicycles that was ever built.

SPECIFICATIONS

FRAME—Motorcycle type with gracefully curved top tube, [illegible] which there are no kinks or sharp bends. Made throughout of 18 gauge Shelby seamless steel tubing. All joints are reinforced in accordance with motorcycle construction. Main frame tubes 1 inch in diameter. Heavy one piece pedal bracket fittings. Pinch bolt seat post cluster, all nickeled. Is mercerized wash

FORK—Truss type, pedal type. Special drop forged crown 18 gauge fork sides. Extra heavy, 1 inch head reamed to fit 1 inch handle bar stem with flush cap lock nut. Head fittings, outside cups and corner cups, 3/16 inch balls.

SEAT POST—Extra heavy forged top, rear 1 heavily nickeled.

WHEELS—Rims fancy enameled, fitted with any standard make [illegible] coaster brake to match. Perfection Anti Rust spokes 36 spokes front and rear

COASTER BRAKE—Any standard make, choice of New Departure, Corbin, Morrow, Atherton or Musselman Coaster Brakes.

CHAIN—Diamond No. 71 roller, 3-16x1 inch pitch.

HANGER—Excelsior one piece, specially designed for heavy work with large cups, cones and balls. Accurate and positive adjustment, 7-inch cranks of diamond shape.

SPROCKETS—From 26-, rear 10 tooth 1/2 x 1/2 inch pitch

MUD GUARDS—Drop pan, wide and heavy, with [illegible] front extension double flat at crown front and rear, carefully polished and heavily nickeled with leather splasher on front guard

TIRES—Optional Kokomo, Oxford or Firestone, red and white stripe, 26x2 1/8 (fully guaranteed)

SADDLE—Troxel Tip Top

HANDLE BARS—Shelby Motorbike drop bar motorcycle type with curved brace made from extra heavy Shelby seamless tubing. Rubber [illegible] grips.

PEDALS—Standard motorcycle type.

STAND—Deluxe folding

FINISH—Frame and fork handsomely and heavily enameled blue with white head, seat post cluster and center bar. All main tubes pointed and striped

OPTIONAL COLORS—Carmine frame and white head or black frame and green head

All metal parts carefully polished and nickel plated.

PRICE COMPLETE WITH COASTER BRAKE AND MUD GUARDS

No. 4100 Fowler Auto-Bike in rich carmine frame and white head $95.00
No. 4101 Fowler Auto-Bike in rich black frame and green head 95.00

EXTRAS

If wanted with Parcel Carrier ..... Add $1 50 List
If wanted with Stand ..... Add 1 35 List
If wanted with Clincher Tires ..... Add 11 35 List

OMISSIONS

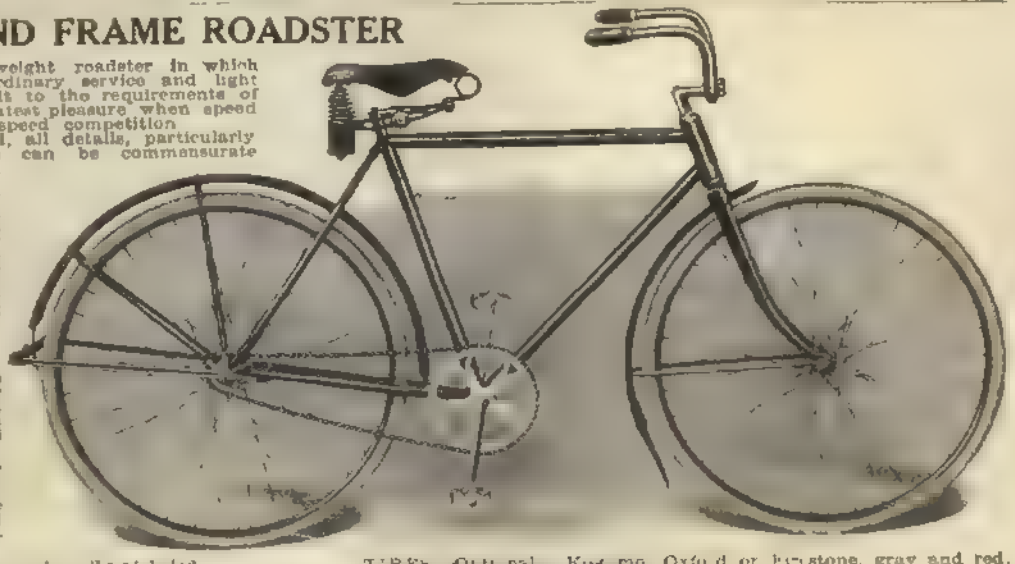
If wanted without Coaster Brake ..... Deduct $7 00 List
If wanted without Mud Guards ..... Deduct 1.00 List

THE LIGHT DIAMOND FRAME ROADSTER

Our Fowler model 100 is a light weight roadster in which is combined ample strength for all ordinary service and light running qualities, especially adapting it to the requirements of tourists or those who attain their greatest pleasure when speed is an important factor, or in actual speed competition

While not designed as a racing model, all details, particularly moving parts are kept as light as can be commensurate with ample strength for hard road service.

There are many riders, particularly veterans of the good old days, who pin their faith unreservedly in the straight diamond frame, free from curves or auxiliary braces. To such, this machine comes as an old friend, having the qualities of the machines of hallowed memories developed and perfected by the evolution of modern structural methods



SPECIFICATIONS

FRAME—Diamond shape made in 20- 22- or 24 inch sizes from 1x19 gauge Shelby seamless tubing. Flush joints, heavily reinforced One piece head, pinch bolt seat post cluster with bolt nut and washer handsomely nickeled.

FORK—Special drop forged crown, 3/4 inch 18 gauge seamless fork sides gracefully curved to match frame lines 1 inch head stem reamed to fit 1 handle bar stem with flush cap lock nut. Head fittings, outside cups and corner carefully hardened with balls.

SEAT POSTS—Extra heavy forged top heavily nickeled

WHEELS—Rims fancy enameled fitted with any standard make of front hub with coaster brake to match. Perfection Anti-rust spokes. 36 spokes front and rear

COASTER BRAKE—Any standard make, choice of New Departure, Corbin, Morrow, Atherton or Musselman coaster brakes.

CHAIN—Diamond No. 71 roller 3/4x1 inch pitch.

HANGER—Excelsior one piece specially designed for heavy work with large cups, cones and balls, accurate and positive adjustment. 7 inch cranks of diamond shape.

SPROCKETS—From 26x1 rear 10x1 roller inch pitch

MUD GUARDS—Wide and heavy with [illegible] front and rear and single brace on the front, carefully polished and nickeled

TIRES—Optional Kokomo, Oxford or Firestone, gray and red, sizes [illegible] 28x1 1/2 (fully guaranteed

SADDLE—Troxel Tip Top.

HANDLE BARS—California bar 22 inches wide, 6-inch raise, with [illegible] forward [illegible] finished and heavily nickeled

PEDALS—Standard motorcycle type.

FINISH—Frame and fork handsomely and heavily enameled in blue with white head and seat post [illegible] All main tubes pointed and striped.

OPTIONAL COLORS—Carmine frame and white head or black frame and green head

All metal parts carefully polished and heavily nickeled

PRICE COMPLETE WITH COASTER BRAKE AND MUD GUARDS

No. 4102 Fowler model No. 100 in rich carmine frame and white head $81.25
No 4103 Fowler model No 100 in rich black frame and green head 81.25

EXTRAS

If wanted with parcel carrier, add ..... $ 1 50 List
If wanted with stand, add ..... 1 35 List
If wanted with clincher tires, add ..... 11.35 List

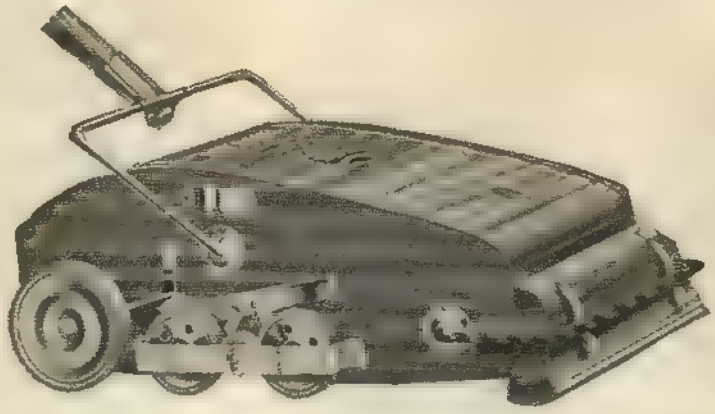
OMISSIONS

If wanted without coaster brake, deduct ..... $7 00 List
If wanted without mud guards, deduct ..... 1 00 List

1918 MODEL K

THE COMPLETE AND PERFECT VACUUM SWEEPER

Another Wonderful United Model with Attractive Features and a Big Future



Guaranteed Against Defective Workmanship And Material

1918 Model K, only 6 inches high 2 inches lower than the average sweeper
Automatic adjustable brush—adjusts itself to any nap of carpet
Quick and positive brush action assured by four drive wheels
Cast steel wheels used entirely. Tires cannot come off
Fitted with fibre bearings. Prevents noise. Will not rust or corrode. Lasts a life time
Dust pan operated with spring lever on side
Dust Bag is made of strong fabric that will retain the finest dust. Fitted with steel frame in box form
Rich mahogany color with snappy nickel finish trimmings
Detachable nozzle with guides to hold same in proper position
Cannot be put on wrong
Covered bar fastener to prevent marring furniture
Steel shoe on nozzle, grooved into wood. Applied without the use of screws or nails. Grooved into wood under tremendous pressure
Three bellows, insuring constant and powerful suction
Patented Basket handle and bail, eliminating all future handle trouble
Furnished with wood or metal tops

1918 Model "K" Vacuum Sweeper . . . . . Each $9.30

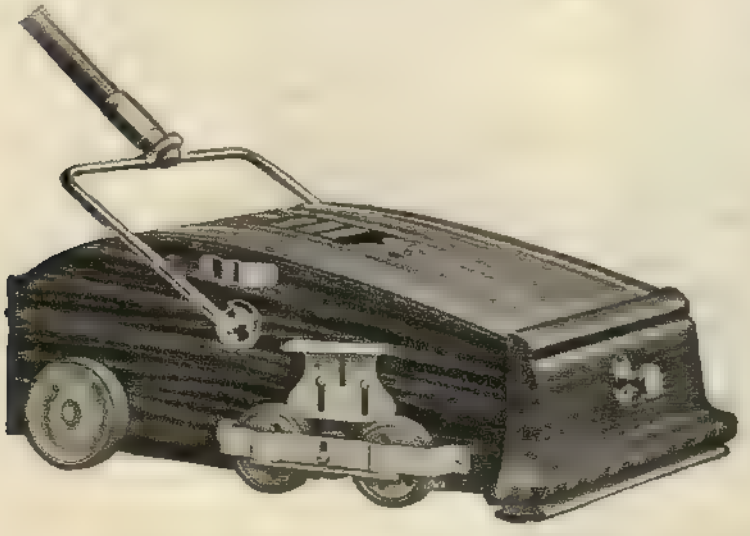
THE NEW No. 7 UNITED VACUUM SWEEPER

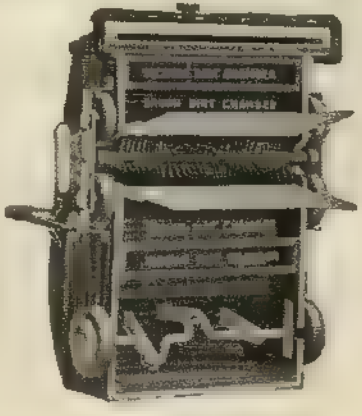
A Wonderful Achievement—A New Idea in Vacuum Sweepers

No Dust Bag to Clean—No Nozzle to Remove

A real innovation in vacuum sweeper construction.
All dust, coarse dirt and litter collected in Vacuum Dirt Chamber and Brush Dirt Chamber
Cleaned instantly with one operation by "spring lever" on side. Closes automatically
A cleaning device without a fault—perfect in every way
A vacuum sweeper cleaned by pressing a lever
Fully guaranteed.

All Orders Filled Same Day Received





SPECIAL FEATURES

Fitted with fibre bearings—will not rust or corrode.
Steel Pitmans.
Four row extra wide bristle brush
Four drive-wheels—insures positive, quick, brush action.
Metal shoe on nozzle—put on without screws or nails—grooved into wood by pressure
Heavy bumper cord on nozzle prevents marring furniture
Flanged wheels used entirely—tires cannot come off.
Inside cleaning brush operated by pulling rod back and forth.
Three bellows—insuring constant and powerful suction.
Improved handle bail—prevents all handle and bail trouble
Built lower and lighter in weight than the average sweeper
Body and top built entirely of wood veneer—rich mahogany finish - nickel trimming.

Model "The New No. 7 United" Vacuum Sweeper . . . . . Each $14.90

The Celebrated and Renown Fowler Bicycles

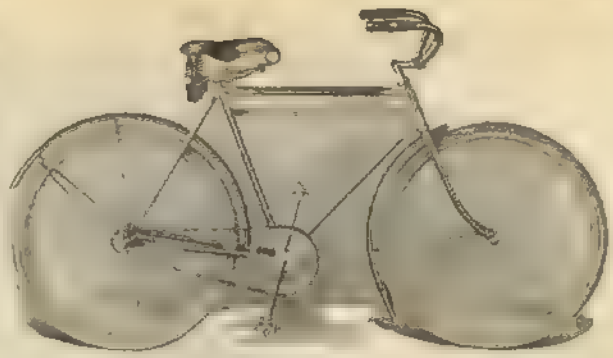
Strictly Highest Grade Fully Guaranteed

The Popular Fowler Double Bar Roadster

Fowler Model 200 is our popular, medium weight roadster, with double top bar, a machine specially adapted to the requirements of riders whose height makes advisable a higher frame than the auto bike, but at the same time is a solidly constructed machine for heavy service

The double top bar adds greatly to the strength and gives particularly staunch appearance, without noticeable increase in weight.

The black and green colored combination gives a handsome and dignified machine for middle aged riders, while the blue and white or carmine and white appeals to younger riders



THE POPULAR FOWLER DOUBLE BAR ROADSTER

SPECIFICATIONS

FRAME—Double bar type made in 20- 22- or 24-inch sizes of 1x16 Shelby seamless tubing with ½ inch center bar Flushed joints all carefully reinforced, making a practically indestructible frame. Seat post cluster pinch bolt type with nickeled bolt nut and cap washer.

FORK—Special drop forged crown, ½ inch 18 gauge seamless fork sides gracefully curved to match frame lines. 1 inch stem reamed to fit ⅞ inch handle bar stem with flush cap lock nut. Head fittings, outside cups and cones carefully hardened with ¼ balls

SEAT POST—Extra heavy forged top heavily nickeled

WHEELS—Rims fancy enameled, fitted with any standard make of front hub with coaster brake to match. Perfection anti-rust spokes. 36 spokes front and rear.

COASTER BRAKE—Any standard make, choice of New Departure, Corbin, Morrow, Atherton or Musselman Coaster Brakes.

CHAIN—Diamond No 71 roller ⅛x1 inch pitch.

HANGER—Excelsior one-piece, specially designed for heavy work Has large cups, cones and balls with accurate and positive adjustment and 7-inch cranks of diamond shape.

SPROCKETS—Front, 26x⅛; rear, 10x⅛, one inch pitch

MUD GUARDS—Wide and heavy with double brace in rear and single brace in front, carefully polished and nickeled

TIRES—Optional: Kokomo, Oxford or Firestone, red and white single tube 28x1¾ (fully guaranteed)

SADDLE—Troxel Eagle Easy.

HANDLE BARS—California bar 22 inches wide, 6-inch raise with serrated forward extension stem. Polished and nickeled.

PEDALS—Standard motorcycle type

FINISH—Frame and forks handsomely and heavily enameled in black with green head and center bar. All main tubes pointed and striped

OPTIONAL COLORS—Blue frame with white head or carmine frame with white head.

All metal parts carefully polished and heavily nickeled

PRICE COMPLETE WITH COASTER BRAKE AND MUD GUARDS

No. 4104 Fowler double bar model 200 in rich blue frame with white head. $85 10
No. 4105 Fowler double bar model 200 in rich carmine frame with white head. 85 10

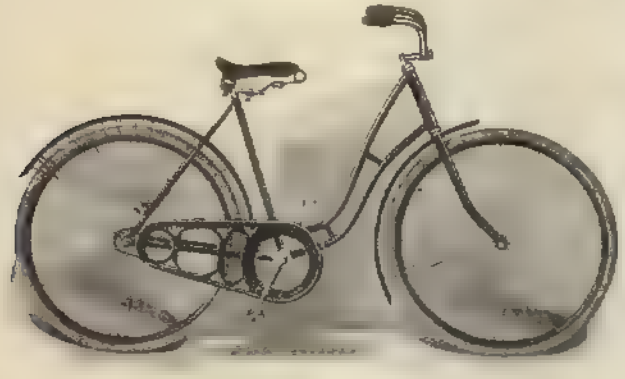
EXTRAS

If wanted with parcel carrier, add.....$ 1 50 List
If wanted with stand, add..... 1 35 List
If wanted with clincher tires, add ..... 11 35 List

OMISSIONS

If wanted without coaster brake deduct.....$7 60 List
If wanted without mud guard, deduct..... 1.90 List

FOWLER LADIES' MODEL



LADIES' FOWLER

This is a gracefully designed ladies' model of highest grade throughout, built as light as it is consistent with strength and safety Special attention is given to finish and the little details that appeal to the artistic sense of the lady rider

SPECIFICATIONS

FRAME—Loop type, made of 1-inch 18 gauge Shelby seamless tubing. Flush joints, heavily reinforced One-piece head pinch bolt seat cluster with bolt, nut and washer handsomely nickeled

FORK—Special drop forged crown ½ inch 18 gauge seamless fork sides gracefully curved to match frame lines. 1-inch head stem reamed to fit ⅞ inch handle bar stem with flush cap lock nut.

HEAD FITTINGS—Outside cups and cones carefully hardened ¼ balls.

SEAT POST—Extra heavy forged top fully nickeled.

WHEELS—Rims fancy enameled, fitted with any standard make of front hub. Perfection anti-rust spokes 36 spokes front and rear

COASTER BRAKE—Any standard coaster brake, New Departure, Corbin, Morrow, Atherton or Musselman.

CHAIN—Diamond No. 71 roller, ⅛x1 inch pitch.

HANGER—Lady's one-piece

MUD GUARDS—Heavy rolled steel, strongly and handsomely laced with nickel plated flat steel braces

CHAIN GUARDS—Heavy rolled steel, covering both front and rear sprockets.

TIRES—Optional (choice of) Kokomo Oxford, or Firestone Grey-Red single tube, 28x1¾ (fully guaranteed).

SADDLE—Troxel lady's.

HANDLE BARS—Special lady's type. Graceful, comfortable and highly finish.

PEDALS—Standard lady's rubber covered.

FINISH—Frame and fork handsomely and heavily enameled in lustrous black with rich green head

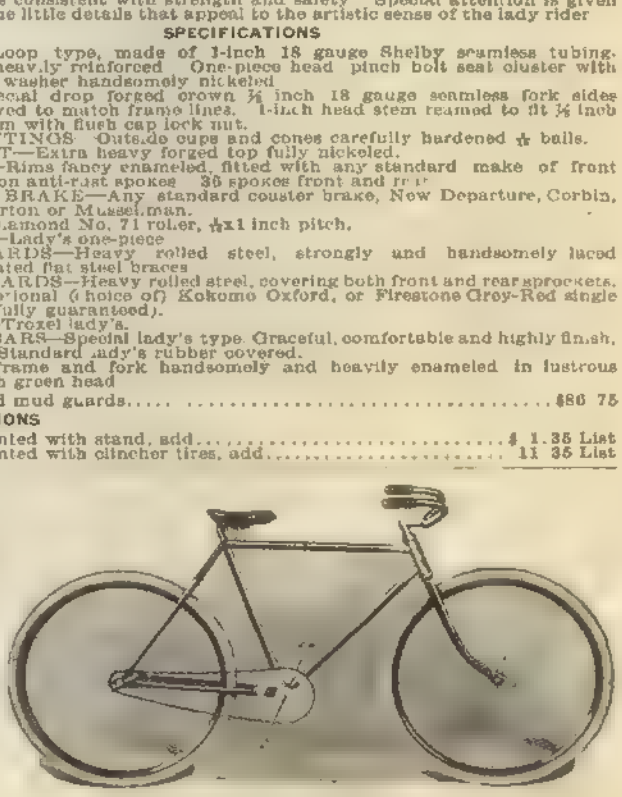
No. 4108 Fowler Ladies' model bicycle equipped as above with coaster brake and mud guards.....$86 75

EXTRAS AND OMISSIONS

If wanted without coaster brake, deduct .....$7.60 List
If wanted with parcel carrier, add. ..... 1.50 List
If wanted with stand, add.....$ 1.35 List
If wanted with clincher tires, add..... 11 35 List

Boys' and Girls' Juvenile Models

These machines are juvenile in dimensions only, being of strictly high grade construction throughout with all the qualities of material, workmanship and finish of the regular lines. It is unfortunately common practice to build juvenile bicycles in any old way to get a low selling price We do not follow such methods and these machines have all the durability and running qualities of the standard lines.



BOYS' AND GIRLS' JUVENILE

SPECIFICATIONS

FRAME—Diamond type 1 inch 19 gauge Shelby seamless tubing, flush joints thoroughly reinforced one piece head. Pinch bolt seat cluster with bolt nut and washer handsomely nickeled. Made in two heights, 16 inch with 24 inch wheels and 18 inch with 26 inch wheels.

FORK—Special drop forged crown ½ inch 18 gauge seamless fork sides gracefully curved to match frame lines. 1 inch head stem reamed to fit ⅞ handle bar stem with flush cap lock nut

HEAD FITTINGS—Outside cups and cones carefully hardened ¼ balls

WHEELS—Rims fancy enameled fitted with any standard make of front hub with brake to match. Perfection anti-rust spokes

COASTER BRAKE—Any standard make, choice of New Departure, Corbin, Morrow, Atherton or Musselman coaster brakes.

CHAIN—Diamond No 71 roller, ⅛x1 inch pitch

SEAT POST—Extra heavy forged top heavily nickeled

HANGER—One piece.

MUD GUARDS—Wide and heavy with double flat rear brace and single flat front brace, fully nickeled.

TIRES—Kokomo juvenile.

SADDLE—Troxel juvenile.

HANDLE BARS—Juvenile type of graceful lines heavily nickeled

PEDALS—Juvenile type, rubber covered

FINISH—Frame and fork handsomely and heavily enameled, blue with white head

FRAME—Loop type 1 inch 19 gauge Shelby seamless tubing, flush joints, thoroughly reinforced one piece head Pinch bolt seat cluster with bolt and nut and washer handsomely nickeled Made in two sizes 16 inch frame with 24 inch wheels and 18 inch frame with 26 inch wheels

FORK—Special drop forged crown ½ inch 18 gauge seamless fork sides gracefully curved to match frame lines 1 inch head stem reamed to fit ⅞ handle bar stem with flush cap lock nut

HEAD FITTINGS—Outside cups and cones carefully hardened ¼ balls

WHEELS—Rims fancy enameled fitted with any standard make of front hub with brake to match.

CHAIN—Diamond No 71 roller, ⅛x1 inch pitch.

SEAT POST—Extra heavy forged top fully nickeled.

HANGER—One piece

MUD GUARDS—Wide and heavy with double flat rear brace and single flat front brace, fully nickeled

TIRES—Kokomo juvenile

SADDLE—Troxel juvenile.

HANDLE BARS—Juvenile type of graceful lines heavily nickeled.

PEDALS—Standard Juvenile rubber covered

FINISH—Frame and fork handsomely and heavily enameled, blue with white head

PRICE COMPLETE WITH COASTER BRAKE AND MUD GUARDS

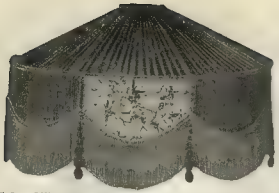
No. 4107 Boys' juvenile as illustrated $71.75
No. 4108 Girls' Juvenile 73.75

EXTRAS

If wanted with parcel carrier, add.....$1.50 List
If wanted with stand, add ..... 1.35 List

OMISSIONS

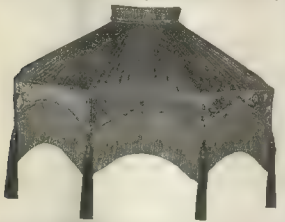
If wanted without coaster brake, deduct .....$7.60 List
If wanted without mud guards deduct ..... 1.90 List



Each

No. 585-24—Silk Shade; 24-inch; covered with Geisha silk, alternate fancy silk and shirred panels, trimmed with double row silk fringe; heavy silk lining; colors, blue, mulberry, rose, gold and champagne.....**$48.00**

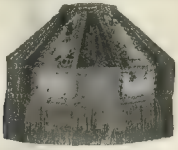
No. 585-20—Silk Shade; 20-inch, otherwise same as above. **36.00**



Each

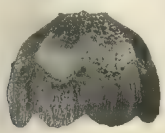
No. 442-24—Silk Shade; 24-inch; covered with panels of plain and fancy silk shirred; heavy silk lining; silk tassels and fringe; colors, rose, gold, mulberry, blue and champagne..**$39.00**

No. 442-20—Silk Shade; 20-inch, otherwise same as above. **30.00**



Each

No. 3-8—Silk Shade; 8-inch; covered with panels of plain and fancy silk; heavy silk lining; trimmed with 3-inch silk fringe; colors, rose, gold, mulberry, blue and champagne..**$7.50**



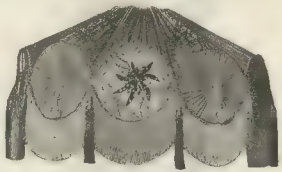
Each

No. 1-8—Silk Shade; 8-inch; covered with panels of plain and fancy silk; heavy silk lining; trimmed with 3-inch silk fringe; colors, rose, gold mulberry, blue and champagne.....**$7.50**

Each

No. 357-24—Silk Shade; 24-inch; covered with silk poplin; lining of cretonne; trimmed with silk braid and 4-inch silk fringe; colors, rose, gold, mulberry and blue.....**$21.00**

No. 357-20—Silk Shade; 20-inch, otherwise same as above. **16.50**



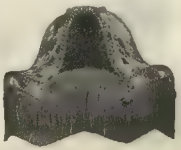
Each

No. 441-24—Silk Shade; 24-inch; covered with alternate panels of plain and fancy shirred silk; heavy silk lining; silk chenille braid; silk ball ornaments and silk tassels; colors, rose, gold, mulberry, blue and champagne...**$66.00**

No. 441-20—Silk Shade; 20-inch, otherwise as above. **54.00**

Each

No. 4-8—Silk Shade; 8-inch; covered with panels of plain and fancy silk; heavy silk lining; trimmed with 3-inch silk fringe; colors, rose, gold, mulberry, blue and champagne. **$7.50**



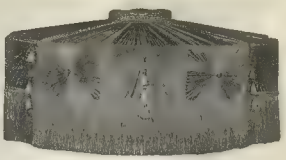
Each

No. 2-8—Silk Shade; 8-inch; covered with panels of plain and fancy silk; heavy silk lining; trimmed with 3-inch silk fringe; colors, rose, gold, mulberry, blue and champagne.....**$7.50**

Each

No. 650-26—Silk Shade; 26-inch; covered with fancy silk; trimmed with double row silk fringe, silk tassels, heavy silk lining; colors, blue, mulberry, rose, gold and champagne **$111.00**

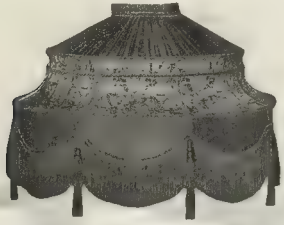
No. 650-22—Silk Shade; 22-inch, otherwise same as above **96.00**



Each

No. 661-26—Silk Shade; 26-inch; covered with fancy silk; trimmed with silk braid, silk double fringe, silk tassels; heavy silk lining; colors, blue, mulberry, rose, gold and champagne **$87.00**

No. 661-22—Silk Shade; 22-inch, otherwise same as above. **66.00**



Each

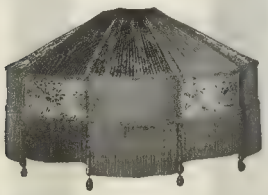
No. 444-24—Silk Shade; 24-inch; covered with plain and fancy silk; alternate shirred and plain panels, trimmed with chenille braid, double fringe, silk tassels; heavy silk lining; colors, blue, mulberry, rose gold and champagne..... **$66.00**

No. 444-20—Silk Shade; 20-inch, otherwise same as above **57.00**

Each

No. 644-24—Silk Shade; 24-inch; covered with fancy silk; double silk fringe; heavy silk lining; colors, assorted blue, mulberry, rose, gold and champagne **$99.00**

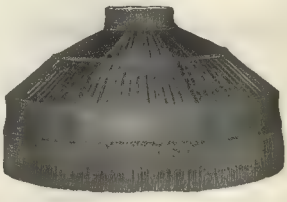
No. 644-20—Silk Shade; 20-inch, otherwise as above. **76.50**



Each

No. 424-24—Silk Shade; 24-inch; covered with plain and fancy silk, alternate shirred and plain panels; trimmed with double silk fringe, silk tassels; heavy silk lining; colors, assorted blue, mulberry, rose, gold and champagne..... **$75.00**

No. 424-20—Silk Shade; 20-inch, otherwise same as above. **63.00**



Each

No. 440-24—Silk Shade; 24-inch; covered with plain colored silk; trimmed with double silk fringe; heavy silk lining; colors, blue, mulberry, rose, gold and champagne. . **$33.00**

No. 440-20—Silk Shade; 20-inch, otherwise same as above. **24.00**

NOTE—Specify color wanted.

CAMP STOVES.

GASOLINE.

FOLDING.

The No. 4M one burner stove has 6-inch grate and interior stationary tank of 1½ hours capacity. The only equipment furnished with this size is a pressure pump and funnel for filling the tank. Gasoline tank is protected from the heat by a jacket, double air chamber and partition.

A meal for one or two people can be prepared on this marvelous little stove very satisfactorily.

Each

No. 4M—Dimensions, 9x9x4½ inches; weight, 8½ lbs **$10.00**

The No. 2M has six inch grates and gas tank of sufficient capacity to last two and one-half hours. The No. 3M has eight inch grates to accommodate 10 in. fry pan with same tank capacity.

Full equipment consists of 1 fry pan, coffee pot, 1 each sugar and coffee retainer, pressure pump and funnel.

Nos. 2M and 3M Kit open.

Folded.

The accompanying cuts illustrate the Nos. 2M and 3M stove set up and also folded, with equipment, all of which is packed inside for transportation.

Each

No. 2M—Dimensions folded, 5½x10x18 inches; weight complete, 17 lbs **$21.00**

No. 3M—Dimensions folded, 6x10x20 inches; weight complete, 20 lbs **23.00**

MINERS' LAMPS.

GUY'S ACETYLENE.

PIT LAMPS.

Each

No. 22SL—Lamp; has 2¾ inch polished brass reflector fastened to lamp with locknut screwed on burner tube; reflector strongly reinforced on back to protect from accidents; intended for use in rooms or entries with high roofs; brass lamp, bright finish **$1.40**

Equipped with self lighter. Has a 2½-inch deep brass polished reflector intended for miners working in wet places or where the roof is low. The reflector is deep enough to protect the burner tip from water.

Each

No. 28SL—Lamp; polished brass finish..... **$1.40**

GUY'S LAMP SUPPLIES.

	Per Gross
Lava Tips	**$2.60**
Rubber Gaskets	**2.00**
Tip Reamers or Needles	**7.00**
Felts for Lamps	**3.00**
Reamer Cases—2 dozen size	**4.50**

	Per Dozen
Extra Bottoms—Brass	**$3.00**

NOTE—For Gasoline Torches see page 5078.

MINERS' LAMPS.

GUY'S ACETYLENE.

PIT LAMPS.

Each

No. 23—Lamp; has large, deep, 3-inch brass reflector, highly polished; intended for inspectors and mining engineers; brass lamp; no extra bottom; weight each, 1 lb..... **$1.30**

MINER' LAMP SUPPLY KITS.

GUY'S.

An assortment of the lamp supplies most frequently called for by the miner. Also the repair parts most liable to become lost or worn out, which require replacement.

Kit contains 6 dozen flat rubber gaskets, 2 dozen felts, 2 dozen felt holders, 2 dozen, screens, 12 dozen lava tips, 6 dozen reamers, put up in reamer cases, two in a case; 6 dozen flints, 1 dozen hexagon nuts, 1 dozen set screws, 1 dozen springs, 1 dozen caps, (these last four items are used in the make-up of the lighter on the reflector), ½ dozen lighter holders. This is a new contrivance that slips on to the tube instead of being fastened on to the reflector.

Each

No. LSK—Miners Lamp Supply Kits; weight each, 2 lbs. **$14.00**

JUSTRITE, ACETYLENE.

The Justright self lighting lamps require no matches. To light, cover reflector with palm of hand, hold a few seconds, then draw hand downward quickly, rubbing over steel wheel.

The lever water feed enables the user to regulate the size of the flame; valve is operated by means of a lever sliding back and forth over notches.

The spiral water feed forces the water around the spiral, a distance of 7 inches, this increases the gas resistance, prevents waste and produces an even, steady flame.

Reflector is highly polished German silver; valve stem is made of brass tubing; clasp is new design made of spring brass, holds lamp secure to cap shield; burner cap is imported German lava fitted with 4 air holes near tip, this prevents clogging and carbonizing.

SELF LIGHTING.

Made of the best quality brass, hand soldered.

The water feed is regulated by a valve controlled by a lever fitting tightly over raised notches which prevents the lever from working loose. The valve can be adjusted to permit a free water flow.

The reflector is polished brass, 3-inch diameter with wire edge.

Each

No. 277 — X-Ray Carbide Lamp; weight each, 4¼ ounces..... **$1.46**

Equipped with lever feed and a 2¼-inch reflector deeply concaved.

Each

No. 417—Miner's Lamp; polished brass finish; weight each, 5 oz..... **$1.46**

Has lever feed and a 2¼-inch polished brass reflector.

Each

No. 85—Miner's Lamp; complete with pocket carbide container; polished brass finish; weight each, 5 oz..... **$1.50**

Equipped with Jewel metal tip and an extra bottom. Has spiral water feed and 2¼-inch polished brass reflector.

Each

No. 121—Miner's Lamp; polished brass finish; weight each, 5 oz..... **$1.66**

Furnished with a heavy nickel plated, highly polished reflector, 2½-inch; burns 3 hours with one charge, producing a steady white 20 candle power light, which can be projected 200 feet.

Each

No. 100—Mine Superintendents' Lamp; complete with reflector hood, extra carbide container, rubber gasket, felt backing and burner tips; weight each, 5 oz..... **$2.20**

Invaluable to the sportsman, automobilist, farmer, miner or army officer.

Can be used in the same manner as any oil lantern and will give a 20 candle power strong, white, brilliant light which can be projected a distance of 200 feet when the reflector is attached. Equipped with an ingenious safety device, allowing the escape of excess gas, should there be any; absolutely safe and reliable.

Each

No. 10—Miner's Lantern; made of heavy brass, highly nickel plated and polished; height, 9¼ inches; width, 4½ inches; equipped with German silver reflector; weight each, 1½ lbs..... **$7.50**

One in a fibre case.

HEADLIGHTS.

For Drivers, Motormen, Miners, Inspectors, Etc.

Gives a penetrating light. Protected by strong lens. **Will not blow out.** Self-lighting attachment. Matches not required.

Burns 10 hours on one charge of carbide and water. Strong. Durable, Compact.

Each

No. 44—Without cap; weight of generator, 1½ lbs.; weight of headlight, 5 oz..... **$7.50**

CAPS.

Made of best quality duck, lined with flannelette; has black vizor and fibre-covered metal shield.

Per Dozen

No. 235—Miners' Caps, made especially for use with Justrite head-lights; all sizes..... **$7.00**

HUNTING SEARCH LIGHTS.

BRILLIANT, ACETYLENE.

A strong, well made light weight lamp, in black japanned finish. Throws a bright, penetrating light, is not affected by either wind, rain, heat or cold and is adapted for all kinds of work. Fitted with a strap for wearing on hat or cap, so as to leave the hands entirely free; a hinge joint enables the light to be tilted up or down at any angle; hinged darkening cover fitting over lens; rubber tube connects light with generator, which may be worn on belt or carried in pocket; has detachable base and burner which are suitable for a table or camp lamp when removed. Burns carbide; one filling, 4 ounces; will burn eight hours. Weight of lamp and head strap, 10 ounces.

Each

No. 1SL—Style number one, with single lens and plain candle flame burner..... **$10.00**

No. 1DL—Style number one, with double lens and plain candle flame burner..... **11.00**

No. 2DL—Style number two, with double lens and adjustable candle flame burner..... **11.30**

No. 3DL—Style number three, with double lens and adjustable flat flame burner..... **11.60**

No. 41L—Style number three, with interchangeable lens, adjustable flat flame burner and self lighter..... **12.30**

NOTE—For Gasoline Torches see page 5078.

HORSIE-TODDLER—one of the

CONSTRUCTION

Body and Hindquarters are one piece of thick Arizona Pine. Head and forelegs are of one piece also. Wheels and handle of selected hardwood. Swivel bearing through shoulder allows toy to be steered in any direction. Four wheels, widely spaced, give great stability. The axles are solid steel rods. The ends of these rods projecting through the wheels are covered with nickel-plated hub caps. All wheels equipped with metal bushings to prevent wear. Full shaped saddle being fitted to the body develops straight legs. Sells as big during the summer as at Christmas time. Finished in four colors as above.

FINISH

The finish has the appearance of baked enamel. The decorations in four colors are life-like and have none of that gaudy appearance so common to toys. The Horsie-Toddler is a sturdy, solidly-made toy—built to stand the hardest nursery knocks.

It is the ideal toy to induce outdoor play and develop the body. It is a winner with the kiddies wherever shown. The Horsie-Toddler gives the child everything that any child's vehicle does and is a horse besides.

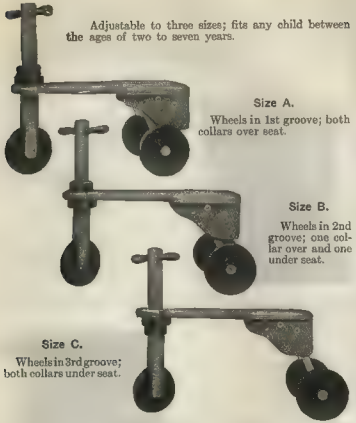
"The Hit of the Toy World"

SIZES	AGE YEARS	HEIGHT INCHES	LENGTH INCHES	WHEELS INCHES	CRATED	DOZEN
No. 2	1 to 1½	14½	19	3½	1-6 doz.	$32.00
No. 3	1½ to 3	17	24	4½	1-6 doz.	40.00
No. 4	3 to 5	21¼	28¾	5¾	1-6 doz.	48.00
No. 5	5 to 7	22	29	6¼	1-6 doz.	56.00

Shipped "Set-up."
Two of a size packed in fibre cartons.
See page 4963

ADJUSTABLE CAR.

A-B-C.



Adjustable to three sizes; fits any child between the ages of two to seven years.

Size A.
Wheels in 1st groove; both collars over seat.

Size B.
Wheels in 2nd groove; one collar over and one under seat.

Size C.
Wheels in 3rd groove; both collars under seat.

Made entirely of hard wood.

By making the car entirely of selected hard woods allows it to take an exceptionally fine glossy finish and makes the car practically indestructible. The seat, steering post, side pieces and tail piece are of natural finish. The wheels are made from a solid piece of selected birch and stained cherry red. The two collars are of beech, as is also the handle bar, stained same as wheels. Front fork is of hard maple.

Simple in adjustment. The two side pieces have three grooves in which the tail piece, bearing the two rear wheels, is fitted. When tail piece is in first groove, both collars on steering post are above the seat. This makes position A, or smallest size. For size B, place tail piece in second groove, one collar above seat and one collar below seat. Size C, tail piece in third groove, both collars below seat. To lock car in the desired position, put bolt through holes in steering post and screws in holes in side pieces.

Per Dozen

No. ABC—Adjustable Cars; weight per dozen, 70 lbs.....**$36.00**
Packed half dozen in a carton.

WIZZER BIKE.

Something to ride. As close an approach to a man's bicycle as he can get. Made of hard wood. A real play car propelled without sliding and wearing of shoes; in reality a safety tricycle for children of a wide range of ages.

Each

No. WB—Weight, 7 lbs......**$5.30**

The Toddler Toy combines the motion of a Kiddie Kar and the joys of going horseback besides. The Horsie-Toddler is a solidly made toy. Body and hindquarters are one piece of thick Arizona pine. Head and forelegs are of one piece also. Swivel bearing through shoulder allows toy to be steered in any direction. Four wheels having metal bushings throughout, giving great stability. Full shaped saddle. Finished in four colors. Four sizes, two of each size to a crate.

Per Dozen

No. 2—For ages 1 to 1½ years; height, 14½ inches; length, 19 inches; wheels, 4¼ inches.....**$32.00**

No. 3—For ages 1½ to 3 years; height, 17 inches; length, 24 inches; wheels, 4¾ inches.....**40.00**

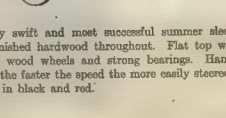
No. 4—For ages 3½ to 5 years; height, 21¼ inches; length, 28¾ inches; wheels, 5¾ inches.....**48.00**

No. 5—For ages 5 to 7 years; height, 22 inches; length, 29 inches; wheels, 7 inches.....**56.00**

Two of a size in a fibre crate, partially assembled.

We do not break crates.

SELLNER.



A very swift and most successful summer sled. Built of smoothly finished hardwood throughout. Flat top with rounded edges; solid wood wheels and strong bearings. Hand brake on rear wheel; the faster the speed the more easily steered. Finished attractively in black and red.

Each

No. S—Sellner Coaster Car; length, 30 inches; width of top, 12 inches; width of steering bar, 18 inches; height over all, 5 inches; weight, 10 lbs.....**$2.50**

SAFETY POCKET AXES.

The handiest tool ever carried by a sportsman. They are large enough to fell a tree and small enough to carry in the pocket. A perfect axe for "blazing," clearing a trail, setting a tent, and is as necessary in the woods as a gun or knife. The nickel plated spring hinged guard is lined with lead and folds into the handle. The blade is made of tool steel, carefully tempered and sharpened. The metal handles are drop forged and will never break. Side plates are of rubber. The wooden handles are of selected hickory and have nickel plated guard and receiver.

Per Dozen

No. 5—Axe; solid steel blade; length, 11 inches; wgt., 16 oz **$29.40**

No. 6—Axe; solid steel blade; length, 12 inches; wgt., 22 oz. **33.60**

Per Dozen

No. 2—Axe; solid steel blade; length, 11 inches; wgt., 20 oz. **$50.40**

Per Dozen

No. 3—Axe; solid steel blade; length, 12 inches; wgt., 27 oz. **$58.80**

No. 2¼, has nail claw strong enough to pull a ten penny nail from a seasoned hemlock plank. Can get at and pull a nail with the blade and claw that cannot be removed with a hammer.

Per Dozen

No. 2¼—Axe; same as No. 2, but with claw..... **$54.60**

No. 2P, has a pick that can be securely and instantly locked either up or down. It will stand unlimited service and will be found handy when climbing, when folded the axe head can be used as a hammer.

Per Dozen.

No. 2P—Axe; same as No. 2, but with pick..... **$75.60**

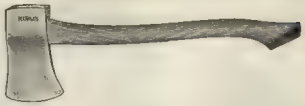
LEATHER AXE SHEATHS.

Per Dozen

No. 19—Axe Sheath; full length leather sheath..... **$20.00**

No. 20—Axe Sheath; half length leather sheath ... **15.00**

CAMP AND BELT AXES.



The blade is forged from solid tool steel. The tempered head, designed for driving stakes, spikes, etc., will not become battered even under continuous service. The accurately machined eye is fitted perfectly by the handle. The nail puller has tempered jaws. Has thoroughly seasoned selected hickory handle.

Per Dozen

No. 9—Belt Axe; 14 inch handle; weight, 22 ounces..... **$21.00**

No. 10—Camp Axes; blade, 3½x5¼ inches; 16 inch handle; weight each, 28 ounces..... **39.80**

HUNTING KNIVES.

WOOD CRAFT.

A knife entirely new in design, containing all of the essential features necessary for sticking, skinning, cutting up, cleaning, slicing, breaking bones, etc.

The four and one-half inch bevel blade is thick at back and tapers to the point. This allows it to serve the purpose of a thin blade and still possess more strength than is usually found in any but much heavier knives. Recommended and used by hunters of wide reputation and experience. Fully guaranteed.

Blade 4½ in.; handle 3⅝ in.; weight 5 oz.

Per Dozen

No. 49—Hunting Knife; leather handle; with sheath ... **$34.20**

No. 50—Hunting Knife; staghorn handle, with sheath.. **44.00**

DE WEESE.

Designed by Dall DeWeese, for use on expeditions after big game, where every item of the outfit has to be figured down to the lightest and most compact form possible.

It has a dull saw back on which the thumb is placed when skinning, or cutting hard substances. When sticking, the little finger should be doubled up, letting the end of handle rest against it. This takes the place of a hilt.

Per Dozen

No. 62—Hunting Knife, with sheath; blade, 4 inches; German stag handle 3¼ inches, weight, 3 ounces..... **$36.00**

EXPERT.

These knives were particularly designed to meet the requirements of the professional hunter, trapper and guide who requires a thin, keen edge for dressing skins and furs The back of the blade is designed for scraping skins while on the forms.

Cocobolo Handle, Staghorn Tip. Furnished with Sheath.

Per Dozen

No. 545—Hunting Knife; blade, 5 inches; weight, 3½ oz **$45.00**

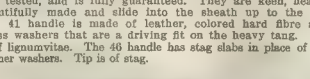
HUNTING KNIVES.

IDEAL.

On account of their quality, combination of several excellent features and beauty of design and finish, the Marble Ideal Knife has won a world-wide reputation. The blade is adapted to sticking and skinning. It is oval-ground at back of point for chopping bones and other hard substances.

Every knife is forged from razor steel, is hand tempered and tested, and is fully guaranteed. They are keen, heavy, beautifully made and slide into the sheath up to the tip. The 41 handle is made of leather, colored hard fibre and brass washers that are a driving fit on the heavy tang. Tip is of lignumvitae. The 46 handle has stag slabs in place of the leather washers. Tip is of stag.

LEATHER HANDLE.

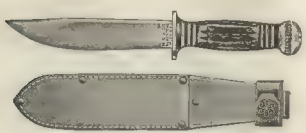


Per Dozen

No. 41-5—Hunting Knife; 5 inch blade; with sheath; weight each, 5 ounces $49.80

No. 41-6—Hunting Knife; 6 inch blade; with sheath; weight each, 6½ ounces 54.00

STAG HANDLE.



Per Dozen

No. 46-5—Hunting Knife; 5 inch blade; with sheath; weight each, 5 ounces $58.90

No. 46-6—Hunting Knife; 6 inch blade; with sheath; weight each, 6½ ounces 63.40

No. 46-7—Hunting Knife; 7 inch blade; with sheath; weight each, 8½ ounces 67.90

SAFETY.

They have a long blade with a short handle—utilizing the extension guard as a safety lock when the knife is open. The guard as well as blade is held in position by a spring, when either open or closed. The blades have bone chopper at back of point. The hilts—one on each side of the blade—and the bolsters and linings are of German silver. Side plates are of staghorn.

All parts are hand fitted with the utmost care, so that when knife is open it is as rigid as a one-piece knife.

Per Dozen

No. 83—Hunting Knife; blade, 4¼ inches; weight, 4 oz.; with sheath ..... Out

No. 85—Hunting Knife; blade, 5 inches; weight, 6 oz.; with sheath ..... Out

FOLDING FISH KNIFE.

Dotted lines show blade folded within folding handle.

The blade is made sharp at back of point for ripping and the back is an excellent fish scaler. It is a good all-round pocket knife for sportsmen, ranchmen and stockmen.

As shown by the dotted lines, the blade, when folded, is entirely protected by the unique, but simply constructed and operated German silver handle. When open it is as safe and rigid as a one-piece knife.

Per Dozen

No. 78—Fish Knife; 4-inch blade; weight, 3½ oz. $27.00

CLINCHER GAFF.

Controlled entirely by one hand—always ready. There's nothing to set—no steel trap feature—no danger. A spring holds jaws open. Just reach out—touch the fish—close your hand. Jaws of gaff shut with a flash and grip the fish like a vise. It will grip and hold any fish from ½ to 20 pounds. Fish cannot slip through no matter where it is gripped, for his circumference is considerably reduced. He cannot twist out because you can let your arm turn and he has nothing to twist against. The only humane gaff on the market. Leaves no ugly holes or tears. It is safe to use—no sharp points to accidentally snap and cut or tear.

Each

No. 321—Clincher Gaff; made of steel, heavily nickel plated: length, 18 inches; 7½ inches between points; can be locked with points together $1.50

TROUT NIPPERS.

Will fit the pocket, or hang over your shoulder on a rubber band; always ready for use. Controlled by one hand; can be closed instantly, cannot open until you release them. Trout is forced against projections in throat of nippers and is held securely while you thrust him tail first into basket as far as nippers will allow. No possible chance of losing your big trout.

Each

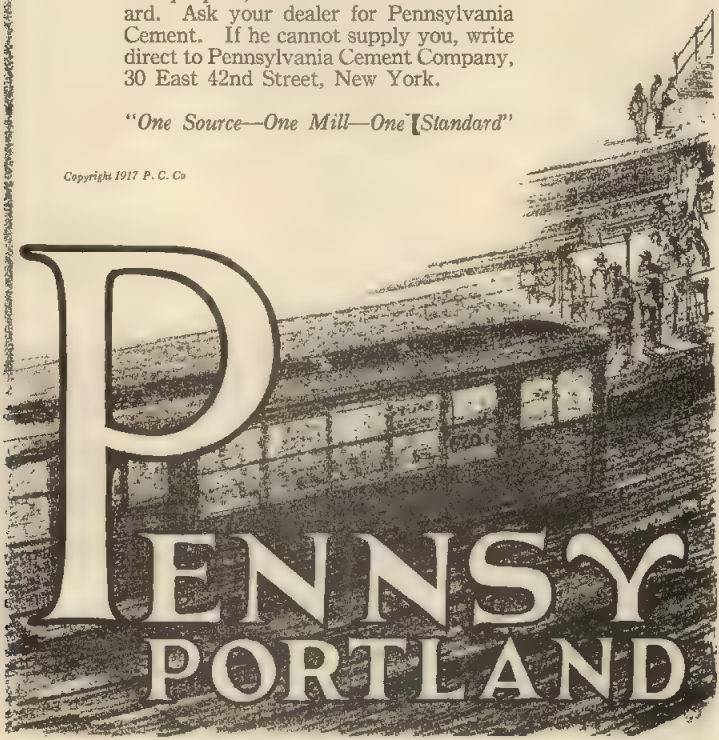
No. 332—Trout Nippers; heavily nickel plated, will resist rust; size when locked partly closed, 3x9 inches; spread, 5 inches; holds trout up to 2½ lbs.; weight, 4 oz. $1.50

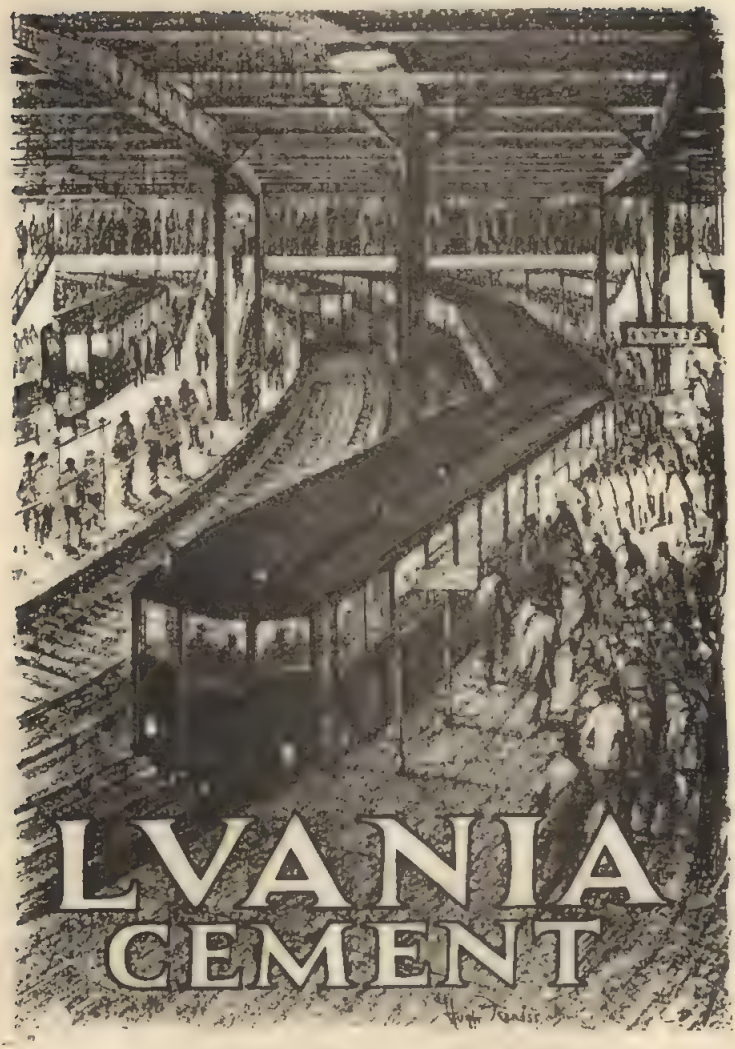
THE SUBWAY, NEW YORK CITY

Two million barrels of Pennsylvania Cement (in round figures) were used in the construction of the New York and Brooklyn Subways. Over 90% of our production is used in construction that calls for the highest tests. Every bag and barrel of Pennsylvania, wherever bought for whatever purpose, is made to the same standard. Ask your dealer for Pennsylvania Cement. If he cannot supply you, write direct to Pennsylvania Cement Company, 30 East 42nd Street, New York.

"One Source—One Mill—One Standard"

Copyright 1917 P. C. Co

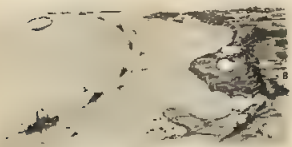



LVANIA
CEMENT

These Strategic Diagrams Lend A Novel and Convincing Touch to the Lobby Display on "Italy's Flaming Front" They Are Used in Conjunction with Photographs

REPRODUCTION OF STRATEGIC SKETCH DIAGRAM MADE DURING THE ACTION BY MILITARY OBSERVER

A- Observation balloon, the eyes of the artillery. Note fleet of planes to protect it from enemy planes and "spot" the shots. The destruction or interruption of this signal system would be the equivalent of blinding the gunners. HMS Italian 9.2 gun positions. CC Aerial cable ways often several miles long. E—Summit 361 Feasible, elevation 9,300 feet. (covered with eternal snows. The Italian hewed one tunnel 70,000 feet long through solid rock to secure uninterrupted communication. D Austrian base against which attack was directed.



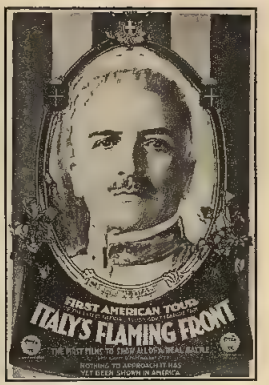
REPRODUCTION OF STRATEGIC SKETCH DIAGRAM MADE IMMEDIATELY AFTER THE ACTION BY A MILITARY OBSERVER

AAA—Indicates captive balloons streaming on a great cable and serving heretofore as they come within range of their 12 and 15 inch guns. B Austrian stronghold mounting long range coast defense artillery. CCC Indicates destroyers and submarine destroyers which steam at wide curves around the battleships to protect them from enemy submarines. The speed of these craft is from 30 to 45 miles per hour. DD Italian floating gun carriages. These are large steam vessels mounting but one heavy gun. They are towed to their positions and anchored. EE Indicates Italian merchant vessels. These are known to be hovering about. The fleet's observation balloon will be seen to be hovering over the craft in order that it may be able to watch and direct the fire well out of range of the enemy's guns, but high enough to watch and direct the Italian fire.

REPRODUCTION OF THE STRATEGIC SKETCH DIAGRAM MADE THE DAY AFTER THE AIR FIGHT BY A MILITARY OBSERVER

A- Austrian battle plane rises from behind Austrian stronghold and climbs to about 18,000 feet proceeds to bomb fleet. B—One of the bombs explodes just a torpedo boat destroyer which is damaged and captured by the explosion. The boat was a four- destroyer which is damaged and captured by the explosion. The boat was a four- destroyer which is damaged and captured by the explosion. The boat was a four-

SIX-SHEET



ONE-SHEET

ONE-SHEET

These are the posters for

"ITALY'S FLAMING FRONT"

They are in striking colors and convey a distinctive advertising appeal.

The entire advertising campaign is based on this line.

"YOU CAN NOW SEE A GREAT BATTLE"

FIRST NATIONAL EXHIBITORS CIRCUIT

ANOTHER "FIRST NATIONAL" MONEY MAKER

THREE-SHEET

TWENTY-FOUR-SHEET—Note provision for endorsement of local editor or mayor

Cuts of Royal Italian crest in 2 sizes. This and 2 smaller

JUST SAY "I SAW IT IN EXHIBITOR'S TRADE REVIEW"

STEEL HORSE SHOES

EXTRA LIGHT, REGULAR HEEL

Front Hind

FRONT

Nos.	1	2	3	4	5	6	7
Weight, ounces	13	15½	18½	22	25½	30	35
Average No. shoes in keg	123	107	89	73	63	51	43

United States, solid sizes—No. 1.....Per keg $...
United States, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg ..

HIND

Nos.	1	2	3	4	5	6	7
Weight, ounces	10	13	16	19½	23	27	32
Average No. shoes in keg	152	123	100	82	69	58	46

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg ....

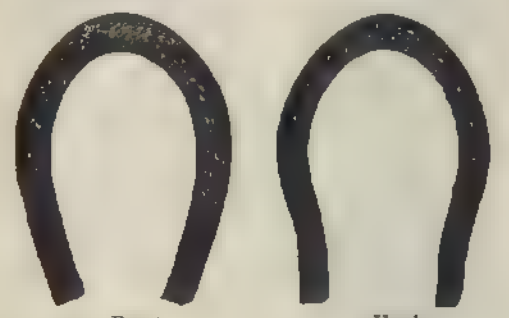
ASSORTED FRONT AND HIND

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5, 6 .....Per keg ...

One Hundred Pounds in a Keg

IRON HORSE SHOES

EXTRA LIGHT, REGULAR HEEL



Front Hind

FRONT

Nos.	1	2	3	4	5	6	7
Weight, ounces	13	15½	18½	22	25½	30	35
Average No. shoes in keg	123	107	89	73	63	51	43

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg ...
Burden, solid sizes—No. 1.....Per keg ....
Burden, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg ..

HIND

Nos.	1	2	3	4	5	6	7
Weight, ounces	10	13	16	19½	23	27	32
Average No. shoes in keg	152	123	100	82	69	58	46

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg ...
Burden, solid sizes—No. 1.....Per keg ...
Burden, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg ...

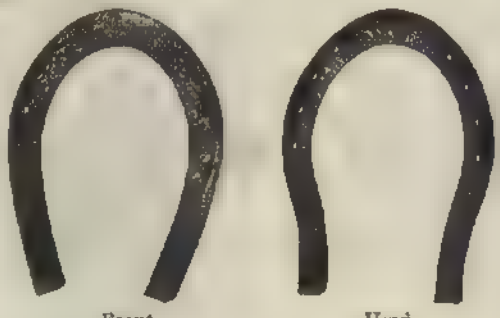
ASSORTED FRONT AND HIND

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5, 6.....Per keg ...
Burden, solid sizes—No. 1.....Per keg ....
Burden, solid sizes—Nos. 2, 3, 4, 5, 6.....Per keg ....

One Hundred Pounds in a Keg

IRON HORSE SHOES

EXTRA LIGHT, LONG HEEL



Front Hind

FRONT

Nos.	2	3	4	5	6	7
Weight, ounces	16¾	19½	23⅝	27¾	33¼	39½
Average No. shoes in keg	98	82	68	58	48	41

Burden, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg $....

HIND

Nos.	2	3	4	5	6	7
Weight, ounces	14¼	17⅜	21½	25½	29⅞	34½
Average No. shoes in keg	112	92	74	63	54	46

Burden, solid sizes—Nos. 2 3 4 5 6 7.....Per keg $....

ASSORTED FRONT AND HIND

Burden, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg $ ..

One Hundred Pounds in a Keg

LIGHT, REGULAR HEEL

Front Hind

FRONT

Nos.	1	2	3	4	5	6	7	8
Weight, ounces	14	17	21	25	30	36	42	48
Aver. No. shoes in keg	110	91	76	64	53	44	37	34

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5, 6, 7, 8.....Per keg ....

HIND

Nos.	1	2	3	4	5	6	7	8
Weight, ounces	12	14	18	22	27	31	34	38
Aver. No. shoes in keg	133	107	89	71	59	51	46	42

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5, 6, 7, 8..... Per keg ....

ASSORTED FRONT AND HIND

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5, 6, 7, 8.....Per keg ....

One Hundred Pounds in a Keg

IRON HORSE SHOES

LIGHT, LONG HEEL

Front Hind

FRONT

Nos.	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Weight, ounces	19	22	27	33	39	46	52
Average No. shoes in keg	86	70	59	48	41	35	31

United States, solid sizes—Nos. 2, 3, 4, 5, 6, 7, 8.....Per keg $....
Burden, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg ....

HIND

Nos.	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Weight, ounces	17	20	24	29	34	39	43
Average No. shoes in keg	97	78	63	52	45	40	37

United States, solid sizes—Nos. 2, 3, 4, 5, 6, 7, 8.....Per keg $....
Burden, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg ....

ASSORTED FRONT AND HIND

United States, solid sizes—Nos. 2, 3, 4, 5, 6, 7, 8.....Per keg $....
Burden, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg ....

One Hundred Pounds in a Keg

BURDEN EASY

SNOW

Front Hind

FRONT

Nos.	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Weight, ounces	12	15	18	22	26	29	32
Average No. shoes in keg	133	107	89	73	62	55	50

Burden Easy, solid sizes—No. 1.....Per keg $....
Burden Easy, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg ....

HIND

Nos.	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Weight, ounces	10	12½	16	19	22	26	30
Average No. shoes in keg	160	128	100	84	73	62	53

Burden Easy, solid sizes—No. 1.....Per keg $....
Burden Easy, solid sizes—Nos. 2, 3, 4, 5, 6, 7.....Per keg ....

ASSORTED FRONT AND HIND

Burden Easy, solid sizes—Nos. 2, 3, 4, 5, 6.....Per keg $....

One Hundred Pounds in a Keg

IRON HORSE SHOES

EXTRA LIGHT SNOW SHOES

Front Hind

Made from a high grade puddled iron. For snow, mud, etc.

FRONT

Nos.	**1**	**2**	**3**	**4**	**5**
Weight, ounces	11	13	16	20	25
Average No. shoes in keg	145	117	100	80	64

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5.....Per keg ....

HIND

Nos.	**1**	**2**	**3**	**4**	**5**
Weight, ounces	9½	11	14	17½	21
Average No. shoes in keg	168	145	114	93	78

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5.....Per keg ....

ASSORTED FRONT AND HIND

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5.....Per keg ....

One Hundred Pounds in a Keg

MULE SHOES

LIGHT STEEL

Nos.	**1**	**2**	**3**	**4**	**5**
Weight, ounces	11	14½	18½	22½	70
Average No. shoes in keg	160	133	107	80	27

United States, solid sizes—No. 1.....Per keg $....
United States, solid sizes—Nos. 2, 3, 4, 5.....Per keg ....

LIGHT IRON

United States, solid sizes—Nos. 2, 3, 4, 5.....Per keg $....
United States, assorted sizes—Nos. 2 and 3, 4 and 5.....Per keg ....
Burden, solid sizes—Nos. 2, 3, 4, 5.....Per keg ....
Burden, assorted sizes—Nos. 2 and 3, 4 and 5.....Per keg ....

FRONT LIGHT TIPS

Size	**4**	**5**	**6**
Weight, ounces	18	21	25
Average No. in keg.	89	76	64

Burden, solid sizes—Nos. 4, 5, 6.....Per keg $....

One Hundred Pounds in a Keg

Not an experiment. Has been sold under manufacturers name and guarantee for fifty years.

Farwell, Ozmun, Kirk & Co. *guarantee* every package of it to be a perfect axle lubricant.

The largest profit and the largest package for the price.

In 10, 15 and 25 pound lithographed metal pails.

For prices see page 4524.

HORSE HEAD.

A superior axle grease, made from pure animal and vegetable oils. Giving the maximum of lubrication in hot or cold weather. Put up in handsomely lithographed metal packages that attract attention and produce sales. Guaranteed by Farwell, Ozmun, Kirk & Co. to be a perfect axle lubricant.

In the following popular sizes:
1 pound boxes, 3 dozen in a case.
5 pound pails, 1 dozen in a case
7½ pound pails, 1 dozen in a case
10 pound pails, not crated.
15 pound pails, not crated.
25 pound pails, not crated.

The 3½ and 7½ pound pails contain ½ pound more grease than the ordinary packages that retail for 25 and 50 cents.

WEARWELL.

A very fine quality of axle grease composed of mineral oils. In four varieties, dark, light, mica and Dixons flake graphite. All packages, except barrels, attractively labeled. For use in hot or cold weather.

Put up in the following size metal packages.
1 pound boxes, 3 dozen in a case.
3 pound pails, 1 dozen in a case.
5 pound pails, 1 dozen in a case.
10 pound pails, ½ dozen in a case.
15 pound pails, not crated.
25 pound pails, not crated.
50 pound tubs, not crated

Also furnished in quarter, half and full barrels.

For prices see page 4524.

AutoStrop Safety Razor

Strops, Shaves, Cleans, Without Detaching Blade

You may sell this Razor on 30 days' Free Trial

All dealers are authorized to offer the AutoStrop Safety Razor to their customers on "Approval." Without paying anything, without depositing anything it may be tried for 30 days. Then paid for or returned.

The Company guarantees the Dealer against all losses

Razor sets which are returned will be exchanged for entirely new sets, and any razor not returned or not paid for will be replaced with a new razor.

STANDARD SET No. 1
BLUE—$5.00

The AutoStrop Safety Razor Co. assumes all the risk and provides for you a definite sales plan.

STANDARD SET No. 1
RED—$5.00

The AutoStrop is different from all other Safety Razors and self-shavers are invited to test its service against any other Razors which they may possess.

The smooth-shaving comfort of this razor, and its absolute uniformity in blade service enables this offer to be extended purely on merit.

REGULAR STANDARD SET No. 1

Size (1½ x 4½ inches)

No. 1 Black leather case, velvet lined, silver plated safe-stropping razor, 12 blades, highest quality strop. . . $5.00

Colored sets fitted with same contents as Regular Standard Set above.

STANDARD SET No. 1
MAROON—$5.00

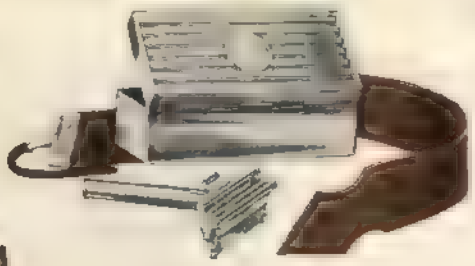
STANDARD SET No. 1
GREEN—$5.00

Color in your Cutlery case will create attention, and we have thus added a more attractive appearance to the AutoStrop line.

AutoStrop Safety Razor

Strops, Shaves, Cleans, Without Detaching Blade

Sold the World Over



METAL CASE OUTFITS

(Size 1⅜ x 4⅛ inches)

No. 50 Handsome nickel plated case, velvet lined; silver plated self-stropping razor; 12 blades; highest quality strop $5.00

No. 53 S Polished gun metal finish case, same contents; silver plated razor . . . 5.00

No. 54 S Satin gun metal finish case, same contents; silver plated razor . . . 5.00

No. 55 Gold plated case, polished finish, same contents; gold plated razor . . . 6.00

No. 56 Gold plated case, satin finish, same contents, gold plated razor 6.00

EMBOSSED METAL OUTFITS

(Size 1½ x 4⅛ inches)

No. 251 Embossed nickel plated case, velvet lined; silver plated self-stropping razor; 12 blades, highest quality strop $5.00

No. 252 S Embossed polished gun metal finish case; same contents, silver plated razor 5.00

No. 254 S Embossed satin gun metal finish case; same contents; silver plated razor 5.00

No. 253 Embossed gold plated case, polished finish; same contents; gold plated razor 6.00

No. 255 Embossed gold plated case, satin finish, same contents, gold plated razor 6.00

AUTOSTROP STROPS

Style X AutoStrop Strops are manufactured from a fine grade of selected leather; a special preparation containing no emery or other harmful substance is worked into the leather, permanently insuring best results in connection with the AutoStrop Safety Razor

Separate AutoStrop Strops, each . . . $ .50

Style XX An extra long strop affording a longer stroke in stropping. Treated by the same approved process.

XX Strop, each $1.00

TOURIST KIT No. 600

Black seal grained leather travelling kit, leather lined, made box-shaped, containing AutoStrop Safety Razor Set in handsome nickel plated case; shaving brush and soap in silver plated tubes, ebony hand-drawn military brush; comb; black celluloid tube for tooth brush, cuticle knife; nail file and fitted with patent hanger for "Pullman" car service.

All fittings best quality and guaranteed

$12.50

AUTOSTROP BLADES

AutoStrop blades are carefully manufactured, finished and tested by experts and are for use in the AutoStrop Safety Razor only. Each blade is contained in a moisture-proof wrapper, then packed in a pasteboard carton.

Carton of 12 blades, $1.00

Carton of 6 blades .50

COMBINATION SET No. 25

(Size 3¾ x 5 inches)

Morocco grain black leather case, silver plated self-stropping razor; 12 blades; highest quality strop; shaving brush and stick of shaving soap in silver plated tubes $7.50

POCKET KIT

(Size 3½ x 4½ x ⅝ inches)

No. 7 Flexible black leather case, seal grain, leather lined, containing silver-plated self-stropping razor; 12 blades; selected leather strop, specially prepared, oval-shaped metal mirror. Case is soft roll with push button catch..$5.00

No. 8 Genuine pigskin flexible case, unlined, same contents 5.00

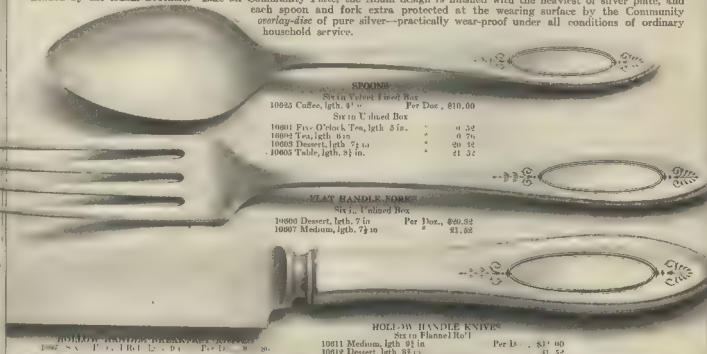
COMBINATION SET No. 27

Morocco grain black leather case leather lined, made box shaped, containing AutoStrop Safety Razor set in handsome nickel plated case; shaving brush and soap in silver plated tubes; highest quality strop and twelve blades.. $8.00

COMMUNITY PLATE

ADAM (Bright Finish)

This exquisite new design in Community Plate is inspired by the charming work of the eighteenth century decorators headed by the Adam Brothers. Like all Community Plate, the Adam design is finished with the heaviest of silver plate, and each spoon and fork extra protected at the wearing surface by the Community *overlay-disc* of pure silver—practically wear-proof under all conditions of ordinary household service.



SPOONS

Six in Velvet Lined Box

10625 Coffee, lgth. 4¼ in. Per Doz., $10.00

Six in Unlined Box

10601 Five O'clock Tea, lgth 5⅛ in. " 9 36
10602 Tea, lgth 6 in. " 10 76
10603 Dessert, lgth 7⅜ in " 20 56
10604 Table, lgth. 8⅛ in. " 21 32

FLAT HANDLE FORKS

Six in Unlined Box

10606 Dessert, lgth. 7 in Per Doz., $20.32
10607 Medium, lgth. 7⅞ in " 21.52

HOLLOW HANDLE BREAKFAST KNIVES

Six in Flannel Roll

10611 Medium, lgth 9¼ in Per Doz., $17 00
10612 Dessert, lgth 8¼ in " 21 52
10630 Medium, Scim. Swag., lgth 9¼ in " 32 96

HOLLOW HANDLE KNIVES

Six in Flannel Roll

10611 Medium, lgth 9¼ in Per Doz., $17 00
10612 Dessert, lgth 8¼ in " 21 52
10630 Medium, Scim. Swag., lgth 9¼ in " 32 96

MODELED HANDLE KNIVES

Six in Racked Box Per Doz.

10615 Medium, lgth. 9¼ in . . $21 52
10981 Dessert, lgth. 8¼ in 21 32
10617 Medium Scim. Swag., lgth. 9¼ in. 21 52

PICKLE FORK

10682 One in Velvet Lined Box, lgth. 6¼ in. Each, $2.40

SUGAR TONGS

10708 One in Velvet Lined Box, lgth. 4 in. Each, $2 56

SUGAR SPOON, Length, 5½ in.

10630B One in Velvet Lined Box . . Each, $1.78

FLAT HANDLE BUTTER SPREADER

10697 Six in Velvet Lined Box, lgth. 6¼ in. Per Set, $8.30

BUTLER KNIFE, Length 7½ in.

10693B One in Velvet Lined Box . . . Each, $1.78

LADLES

10713 Cream, lgth. 5¼ in. Each, $ 2 08
10717 Gravy, lgth. 6¼ in. " 3 56
10710 Sauce, lgth. 6¼ in. " 3 72
10720 Soup, lgth. 10¼ in. " 5 04
10721 Medium Soup, lgth. 10¼ in. " 10 08
713 Ice Handle Punch, lgth. 13½ in. " 16.04

COLD MEAT FORK

10686 Large, one in Velvet Lined Box, lgth. 8⅛ in. Each, $2.90
10688 Small, one in Velvet Lined Box, lgth. 6¼ in. " 2.58

BOUILLON SPOON

Six in Velvet Lined Box, lgth. 6¼ in. Per Set, $9 50

INDIVIDUAL SALAD FORK

10688 Six in Velvet Lined Box, lgth. 6¼ in. Per Set, $9 50

BERRY OR SALAD SPOON

620 One in Velvet Lined Box, lgth. 9¼ in. Each, $4 46

ADAM DESIGN

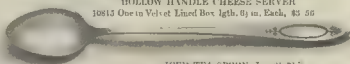
COMMUNITY PLATE

ADAM (Bright Finish)

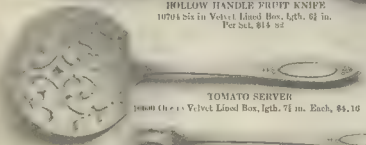
SOUP SPOON
10604 Six in Cutlined Box, lgth. 7¼ in. Per Doz. $21 52

HOLLOW HANDLE CHEESE SERVER
10813 One in Velvet Lined Box lgth. 8¼ in. Each, $5 56

HOLLOW HANDLE FRUIT KNIFE
10704 Six in Velvet Lined Box, Lgth. 6¾ in.
Per Set, $14 82

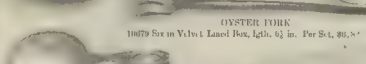


ICED TEA SPOON, Length 7¼ in.
10689 Six in Velvet Lined Box . . Per Doz., $16.00



TOMATO SERVER
10600 One in Velvet Lined Box, lgth. 7¼ in. Each, $4.16

ORANGE SPOON
10641 Six in Velvet Lined Box, lgth. 5¼ in Per Set, $7.40

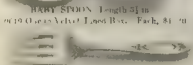


OYSTER FORK
10679 Six in Velvet Lined Box, lgth. 6¾ in. Per Set, $6.80

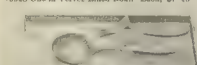
OLIVE SPOON
10656 One in Velvet Lined Box, lgth. 5½ in. Each, $2.38

BABY SPOON Length 5¼ in.
10619 One in Velvet Lined Box. Each, $1 20

HOLLOW HANDLE PIE SERVER
10710 One in Velvet Lined Box, lgth. 10½ in. Each, $2 96



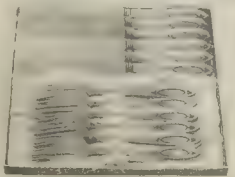
BABY FORK, Length 4¼ in.
10628 One in Velvet Lined Box.. Each, $1 20



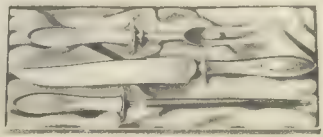
BUTTER KNIFE AND SUGAR SPOON
10729 One Set in Velvet Lined Box Per Set, $5.56

CARVING SET
Length of Knife 9 in.
10726 One Set in Velvet Lined Box, Per Set, $11 00

THREE PIECE CHEESE SET
One Set in Velvet Lined Box
Length of Knife 7¼ in.
10725 Hollow Handle Knife . Per Set, $5 56
10757 Flat Handle Knife . . " 3 44



12 pc. H. H. KNIFE AND FLAT FORK SETS
10742 6 Flat Med. Forks and 6 H. H. Med. Knives, . Per Set, $26.76
10743 6 Flat Des. Forks and 6 H. H. Des. Knives, . " 21 92
10744 6 H. H. Med. Fish and Pie Knives, Nickel Silver Blades, . " 20 76
10745 6 Flat Fish Forks and 6 Flat Breakfast Knives . . " 20 06



LARGE CARVING SET
Length of Knife, 13 in.
10725 One Set in Velvet Lined Box . . Per Set, $23 80

ONEIDA COMMUNITY
PAR PLATE

PRIMROSE (Grey Finish)

The Primrose is an unusually dainty floral design. The festoon of flowers is charmingly arranged and the design has great beauty and attractiveness.

This Tableware is scientifically designed to give the greatest possible service for the money, and while the price is moderate, the quality is excellent.

SPOONS
Twelve in Unlined Box

45823 After Dinner Coffee, 4th 4½ in., Per Doz. $1 75
45801 Five O'Clock Tea, 4th 5 5/8, " 2 25
45802 Tea, 4th 6¼ in., " 4 10
45803 Dessert, 4th 7 in., " 5 00
45805 Table, 4th 7¾ in., " 8 25
Six in Lined Box
45825B After Dinner Coffee, 4th 4¾ in., Per Doz. 4 75

BABY FORK
45828 One in Lined Box, 4th 5 in., Each, $ .78

BABY SPOON
45619 One in Lined Box, 4th 5¼ in., Each, $ .78

ORANGE OR GRAPE FRUIT SPOON
1 in Box
45 in Lined Box, 4th 5¾ in., Per Set, $5 38

SOLID HANDLE EMBOSSED KNIVES
Six in Lined Box
45815 Medium, 4th 9¼ in., Per Doz. $10 00
45618 Dessert, 4th 8¼ in., " 9 00

BUTTER SPREADER
45897 Six in Lined Box, 4th 5½ in., Per Set, $4 80

PICKLE FORK
45682 One in Lined Box, 4th 6¼ in., Each, $1.20

HOLLOW HANDLE KNIVES
Six in Racked Box
45811 Med., 4th 9¼ in., Per Doz., $15.00

FLAT HANDLE FORKS
Twelve in Lined Box
45 in Dessert, 4th 6¾ in., Per Doz., $7 80
45 in 7 M.d., 4th 7¼ in., " 9 52

BOUILLON SPOON
45622 Six in Lined Box, 4th 4¼ in., Per Set, $4 16

COLD MEAT OR SALAD FORK
45656 Three in Lined Box, 4th 8¼ in., Each, $1.42

OYSTER FORK, 4th 6 in.
45670 Twelve in Unlined Box, Per Doz., $7 16
45670B Six in Lined Box Per Set, 3 86

SUGAR SPOON, 4th 5¾ in.
Assembly in Lined Box, 4 in., $ .85
45650 Twelve in Lined Box
Per Doz., $8.40

BERRY OR SALAD SPOON
45620 One in Lined Box, 4th 8¼ in., Each, $1 35

EMBOSSED HANDLE CHEESE SPADE
45711 One in Lined Box, 4th 6¼ in., Each, $1 48

SOLID HANDLE EMBOSSED KNIVES
45698 Six in Racked Box, 4th 9¼ in.,
Per Set, $5 38

ICED TEA SPOON
45639 Twelve in Lined Box, 4th 6¼ in., Per Doz., $7.16

SUGAR TONGS Length 4 in.
45709 One in Lined Box, Each, $ .60

TABLE KNIVES
In Lined Box
45 Table, 4th 9¾ in., Per Doz. $12 78
45 Cream, 4th 8¾ in., " 9 60
45 Med. Steel, 4th 10¼ in., " 9 76

BUTTER KNIFE, Length 4 in.
45695 Twelve in Lined Box, Per Doz., $9 30
Assembly in Lined Box, Each .88

SOUP SPOON, 4th 6¼ in.
45604 Twelve in Lined Box, Per Doz. $8 52
45604H Six in Lined Box, Per Set, 4 36

INDIVIDUAL SALAD FORK
45688 Six in Lined Box, 4th 6¼ in. Per Set, $5 40

See CHILD'S SET IN LINED BOX
45737 With Flat Handle Knife, 4th 7 in., Per Set, $2.38

See EMBOSSED KNIFE AND FLAT FORK SETS
45803S Medium, Per Set, $9 16
45804S Dessert, " 8.00

BUTTER KNIFE AND SUGAR SPOON
45709 One Set in Lined Box, Per Set, $1.72

H. H. MED. KNIFE AND FLAT MED. FORK SET
45744B Per Set $10.60

PRIMROSE DESIGN

ONEIDA COMMUNITY
PAR PLATE

VERNON (Bright Finish)

The Vernon design is especially attractive to those who prefer the plain to the ornate in tableware

This Tableware is scientifically designed to give the greatest possible service for the money and while the price is moderate, the quality is excellent.

SPOONS
Twelve in Lined Box
46805 After Dinner Coffee, lgth 4¼ in., Per Doz., $6.76
46801 Five O'clock Tea, lgth 5 in. " 5.20
46806 Tea, lgth 5 in. " 4.16
46809 Dessert, lgth 7 in. " 7.80
46802 Table, lgth 7¼ in. " 8.32
Six in Lined Box
46843B After Dinner Coffee, lgth 4¼ in., Per Doz., 4.24

BABY SPOON
46819 One in Lined Box, lgth 3½ in., Ea. $.78

BABY FORK
46828 One in Lined Box, lgth 3½ in., Ea. $.78

ORANGE OR GRAPE FRUIT SPOON
Six in Lined Box, lgth 5½ in., Per Doz., $6.76

SOLID HANDLE FRUIT KNIVES
Six in Racked Box
46815 Med., lgth 9¼ in., Doz., $10.00
46816 Desc., lgth 8¼ in., Doz., 9.36

BUTTER SPREADER
46897 Six in Lined Box, lgth 5¼ in., Set, $4.80

FLAT HANDLE FORKS
Six in Lined Box
46836 Oyster, lgth 5¾ in., Doz., $8.32
46806 Dessert, lgth 6¾ in., " 7.80

PICKLE FORK
46824 One in Lined Box, lgth 6¼ in., Each, $1.30

HOLLOW HANDLE KNIVES
Set in Racked Box
46811 Medium, lgth 9½ in., Per Doz., $22.48

BOUILLON SPOON
Six in Lined Box, lgth 4½ in., Set, $4.16

SOLID MEAT OR SALAD FORK
46807 One in Lined Box, lgth 8¼ in., Each $1.46

OYSTER FORK, Lgth 6 in.
46879 12 in Unlined Box, Doz., $2.16
46879B Six in Lined Box, Set, $1.20

SUGAR SPOON, Lgth 5¾ in.
46859B One in Lined Box, Each, $ .85
46859 Twelve in Unlined Box, Doz., 8.40

BERRY OR SALAD SPOON
46859 One in Lined Box, lgth 8¼ in., Ea., $1.30

INDIVIDUAL SALAD FORK
46888 Six in Lined Box, lgth 6¼ in., Set, $4.16

BUTTER KNIFE, Lgth 7¼ in.
46895 12 in Unlined Box, Doz., $9.36
46895B One in Lined Box, Each, .88

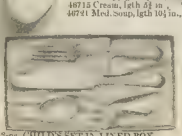
ICED TEA SPOON
46669 Twelve in Unlined Box, lgth 8¼ in., Doz., $7.80

SUGAR TONGS, Lgth. 4 in.
46709 One in Lined Box, Ea. $1.06

LADLES, One in Lined Box
46717 Gravy, lgth 6¼ in., Each, $1.72
46715 Cream, lgth 5¼ in., " 1.56
46741 Med. Soup, lgth 10½ in., Ea. 4.76

SOUP SPOON, Lgth 6¾ in.
46804 12 in Lined Box, Doz., $8.42
46804B Six in Lined Box, Set, 4.30

SOLID HANDLE EMB. FRUIT KNIVES
46838 Six in Racked Box, lgth 9¼ in., Per Set, $4.58



5-pc. CHILD'S SET IN LINED BOX
46737 Flat Handle Knife, lgth 7½ in., Set, $2.38

12-pc. EMB. KNIFE AND FLAT FORK SETS
46803B Med., Set, $9.16 46804B Desc., Set, $8.90

BUTTER KNIFE AND SUGAR SPOON
46729 One Set in Lined Box, Per Set, $1.72
HOLLOW HANDLE KNIFE AND FLAT FORK SET
46742B Medium, Per Set, $16.66

VERNON DESIGN

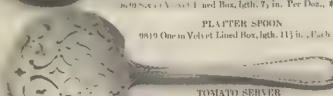
COMMUNITY PLATE

SHERATON

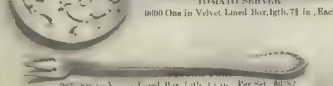
(Grey Finish)

SOUP SPOON
9804 Six in Velvet Lined Box, lgth. 7¼ in. Per Doz., $21.52

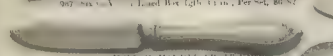
ICED TEA SPOON
9809 Six in Velvet Lined Box, lgth. 7¼ in. Per Doz., $16.00



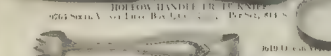
PLATTER SPOON
9819 One in Velvet Lined Box, lgth. 11½ in., Each $5.94



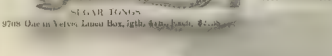
TOMATO SERVER
9890 One in Velvet Lined Box, lgth. 7¾ in., Each, $4.10



9807 Six in Velvet Lined Box, lgth. 6¾ in., Per Set, $6.82



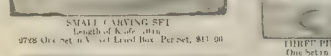
HOLLOW HANDLE ICE KNIFE
9864 Six in Velvet Lined Box, lgth. [illegible], Per Set, $14.88



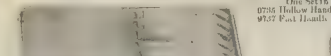
SUGAR TONGS
9708 One in Velvet Lined Box, lgth. 4¾ in., Each, $2.[illegible]

BOUILLON SPOON
9802 Six in Velvet Lined Box, lgth. 4¾ in., Per Set, $9.10

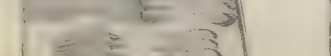
ORANGE SPOON
9811 Six in Velvet Lined Box, lgth. 5½ in. Per Set, $7.40



ICE CREAM FORK
9892 Six in Velvet Lined Box, lgth. 6¼ in., Per Set, $8.00



FLAT HANDLE BUTTER SPREADER
9897 Six in Velvet Lined Box, lgth. 6¼ in., Per Set, $8.50



HOLLOW HANDLE CAKE SERVER
9815 One in Velvet Lined Box, lgth. 9¾ in., Each, $4.56

BABY SPOON
9819 Each [illegible] Each, $1.[illegible]

FOOD PUSHER
Length 5¼ in.
9827 One in Velvet Lined Box, Each $1.20

HOLLOW HANDLE PIE SERVER
9710 One in Velvet Lined Box, lgth. 10¼ in. Each, $5.94

SMALL CARVING SET
Length of Knife 7½ in.
9728 One Set in Velvet Lined Box, Per Set, $11.90

THREE PIECE CARVING SET
One Set in Velvet Lined Box
9735 Hollow Handle Knife, Per Set $5.96
9737 Fork, Length, 8½ in. 4.44

BUTTER KNIFE AND SUGAR SPOON
9720 One Set in Velvet Lined Box, Per Set, $3.56

10 pc. H. H. KNIFE AND FLAT FORK SETS
9742—6 Flat Med. Forks and 6 H. H. Med. Knives, . . . Per Set $30.76
9743—6 Flat Des. Forks and 6 H. H. Des. Knives, 25.92
9901 6 Flat Med. Forks and 6 H. H. Nov. Med. Knives 26.88
9[illegible] 6 Flat Des. Forks and 6 H. H. Nov. Des. Knives, 26.06

LARGE CARVING SET
Length of Knife 15 in.
9725 One Set in Velvet Lined Box Per Set, $23.80

SHERATON DESIGN

SHERATON (Grey Finish)

The Sheraton takes its inspiration and its name from the artist who probably did more than any other to awaken the English-speaking world to the pure delight of graceful simplicity. The Sheraton is a masterpiece of artistic designing. It is simple yet exquisitely beautiful in outline and ornamentation.

SPOONS
Six in Velvet Lined Box
9625 Coffee, lgth. 4¼ in. . . Per Doz., $10.00
Six in Unlined Box
9691 Five O'clock Tea, lgth. 5 in. " 10 52
9692 Tea, lgth. 6 in. " 10 76
9693 Dessert, lgth. 7¼ in. " 10 92
9695 Table, lgth. 8¼ in. " 11 52

FLAT HANDLE FORKS
Six in Velvet Lined Box
9696 Dessert, lgth. 7 in . . . Per Doz., $20 92
9697 Medium, lgth. 7¼ in. . . . " 21.92

HOLLOW HANDLE KNIVES
Six in Factory Roll
9611 Medium, lgth. 9¼ in. Per Doz. " 8
9612 Dessert, lgth. 8¼ in. " 8
9630 Medium Steak, lgth. 9¼ in. " 8

HOLLOW HANDLE BREAKFAST KNIVES
Six in Velvet Lined Box, lgth. 9 in. Per Doz. $8.00

MODELED HANDLE KNIVES—Six in Packed Box
9613 Medium, lgth. 9¼ in. Per Doz., $21 52
9691 Dessert, lgth. 8¼ in. " 21 12
9617 Medium Steak, lgth. 9¼ in. " 21 52

SUGAR SPOON, Lgth. 5¼ in.
9650B One in Velvet Lined Box Each, $1 78

PICKLE FORK
9682 One in Velvet Lined Box, lgth. 8¼ in., Ea., $2.08

BUTTER KNIFE Lgth. 7¼ in.
9695B One in Velvet Lined Box Each, $1.78

COLD MEAT FORKS
9687 Large, one in Velvet Lined Box, lgth. 8¼ in., Ea., $2 96
9688 Small, one in Velvet Lined Box, lgth. 8 in., Ea., $2 68

CARVERS
One in Velvet Lined Box
9713 Cream, lgth. 5¼ in. Each $ 2 68
9717 Gravy, lgth. 6 in. " 3 36
9719 Oyster, lgth. 6¼ in. " 5 28
9720 Steak, lgth. 7¼ in. " 5 94
9721 Meat, Long Prong, lgth. 7¼ in. " 10 08
9724 Hot Handle Pattern, lgth. 15¼ in. " 16 03

INDIVIDUAL SALAD FORK
9688 Six in Velvet Lined Box, lgth. 6¼ in., Per Set $9.80

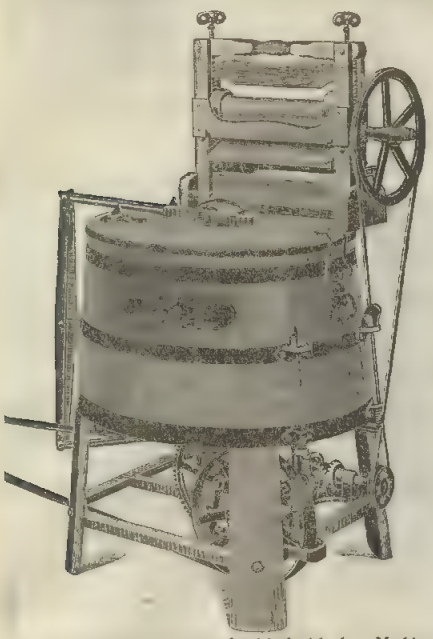
BERRY OR SALAD SPOON
9689 One in Velvet Lined Box, lgth. 9¼ in., Ea. $4.46

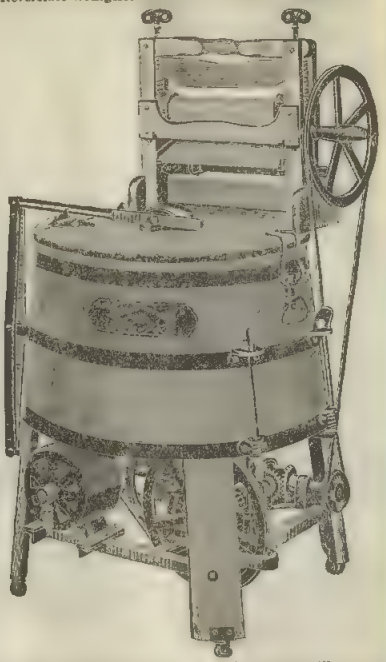
✠WASHING MACHINES

*NORLEIGH DIAMOND

Complete with Ball Bearing Reversible Wringers

NOTE -The only difference between these Machines and our No. 22 is that they are constructed to run by Mechanical Power instead of Hand Power and in addition are furnished with Ball Bearing Reversible Wringers. Material and Finish is exactly the same as the Hand Power Machine, also Dimensions of Tub.





WRINGERS—The Wringer furnished with these Machines is the Highest Grade manufactured; It is Ball Bearing, will operate in either direction by moving Gear Lever is fitted with the Very Best Quality "Five Year Rubber Rolls" and with proper care will last a lifetime. An extra large Drain Board is furnished for use when wringing from Blueing Water to top of Tub. Wringer will run at same time that the Washing Machine is in operation or Independently of it.

GASOLINE POWER

Especially adapted for Farms or other use where a Gasoline Engine is available, although it may be used with any other Mechanical Power, such as Steam or Electric.

The operation of this Machine is simple in the extreme, as there is nothing about it to get out of order. The large Belt Drive Wheel is located underneath the Tub. This does away with any possibility of the Operator's Skirts catching in Belt or Shafting. On account of being equipped with a Power driven Wringer, it relieves Washday of every particle of Work, of which the wringing has heretofore been the hardest part.

The Cost of Operation is so small that it can hardly be correctly estimated; Five cents will be more than enough to cover the cost of Gasoline consumed in turning out the heaviest Family Washing.

Each

✠**No. 60**—Complete as shown above but without Belt; Drive Pully 10x1¼ inches; requires belt 1¼ inches Wide. Should be run about 350 Revolutions per minute; Cost of operation about Five (5) cents per week. **$37 00**

One in a Crate, Weight Crated 150 lbs.

ELECTRIC POWER

With Self Contained Motor

Note—Very Important, Read Carefully—This Machine is regularly furnished with Alternating Current Motor, 110 Volt 60 Cycle, but can be supplied with Direct Current 110 Volt Motor at the same price. However, if any odd-cycle alternating current or higher voltage direct current motor other than the two specified above is wanted the cost will be slightly more and we can make a special quotation on receipt of information concerning voltage, current and cycles. It is always necessary to specify on orders for Electric Washing Machines the current, voltage, and cycles of the electric system on which the Washing Machine is to be run.

The Gearing together with the Motor is all placed underneath the Tub on a heavy Iron Bracket which also acts as a Brace for the Legs. The Motor is of ample strength to run either the Washing Machine alone or the Machine and Wringer at the same time if the Tub is not overloaded. It is the best Motor manufactured today for Washing Machines and is thoroughly dependable.

After connecting the extension Cord to any ordinary Electric Light Socket, the Agitator is started by turning to the right the Lever Handle nearest to the Motor on the side of the Tub. The Wringer is started in the same way by the Lever provided for the purpose.

Each

✠**No. 76** Complete, as shown above; Provided with Casters so that Machine may be easily moved about; Cost of operation about Two (2) cents per hour. **$82.00**

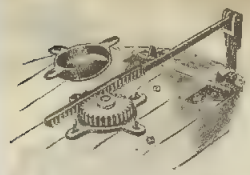
One in Crate, Weight Crated 350 lbs.

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, F. O. B. Chicago, Ills.

WASHING MACHINES

★NORLEIGH DIAMOND

BALL BEARING — HIGH SPEED



Cut shows View of the Gear and Rack which operates the Agitator

Cut shows Agitator and inside of Tub with Corrugated Surface

Every Norleigh Diamond No. 22 High Speed Washing Machine is Guaranteed against Defects in Material and Workmanship for a period of Five (5) Years. Repair Parts can be furnished at all times.

Details of Mechanical Construction.

Mechanical Principle—The Novel Mechanical Principal of Construction, that is the Double Lever with Walking Beam Connection, not only equalize the Power, but give greater Speed to the Agitator than any other High Speed Washing Machine.

Ball Bearing—The Ball Bearing used is Simple, set up in Vaseline, so that it will not need Oiling for years and is without question the easiest running Bearing used on a Washing Machine. It is simple and cannot get out of order.

Balance Wheel—Extra Heavy; this part of the mechanism actually takes off the major portion Muscle Power required to operate the Old Style, low speed Washer.

Castings—All Castings made of Best Quality Steel, and every Metal Part of the Machine is not only carefully made and Extra Heavy and Strong, but is finished with the Electro Galvanizing or Sherardizing Process. This Finish does not Peel or Check as Paint will do and effectually prevents Rust.

Details of Tub Construction.

Tub—Tub made of Best Quality Selected Southern Cypress. Inside Corrugations. Cypress will last longer and give better satisfaction in a Washing Machine than any other wood. The Tub is finished nicely in Natural Wood Finish with a Good Quality of Varnish and is very Strong in construction, the Stave Legs being well braced to prevent leakage.

All Gears are underneath the Tub where they are entirely out of the way; no danger of Catching or Tearing Clothing.

On account of the Special Ball Bearing, together with the Double Lever and Walking Beam Construction, this Washing Machine actually does run easier when loaded than any other High Speed Washer. It not only washes Clothes Clean, but on account of the easy running qualities, together with High Speed, any Housewife can get her washing finished much quicker and with less effort than with other Machines.

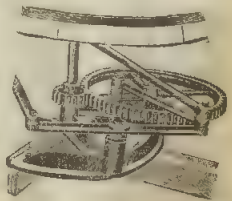
No. 22—Inside Dimensions—Diameter at Bottom 23 inches, at Top 20 inches; Depth 12¾ inches; Height to Top of Tub 28½ inches; Height Over All 44½ inches; Length of Wringer Board 15½ inches; Tub Made of Best Quality Cypress, Natural Finish and Varnished. Inside Corrugated, Giving a Perfect Rubbing Surface; All Metal Parts Electro Galvanized Finish, Legs Securely Bolted to Body and Strengthened by Heavy Cross Braces..... Each **$18.00**

One in Crate; Weight Crated 100 lbs.

Cut shows under View of Tub; also Gearing, Balance Wheel and Propelling Levers. Note the Heavy Frame, Method of Cross Bracing and Bolting.

Note—This Machine can be operated either in a sitting or standing position. Operating Handle is provided at lower end with a Metal Stirrup so that both Hand and Foot Power may be applied.

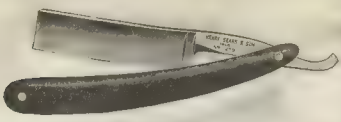
This Cut shows a Sectional View of the Ball Bearing Feature. The Balls of Extremely Hard Steel and Made Perfect in such a manner that all Friction is practically eliminated.



This Cut shows the "Power Plant" of the Machine. It gives a good view of the Gearing Levers and Walking Beam. The Ball Bearing is enclosed in the Frame at end of Main shaft on which the Small Pinion is secured.

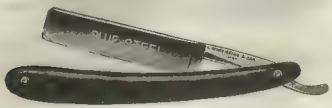
HENRY SEARS & SON, 1865, QUALITY WARRANTED.

Henry Sears & Son, 1865, hand forged from the best crucible forged steel and tested. The hardening, tempering, finishing, handling and honing is done by the most experienced and best men in the trade.



Per Dozen

No. 278—⅝ inch blade, square point, ¾ concave, firmly glazed, double shoulder, file tang, oval black rubber handle **$24.00**

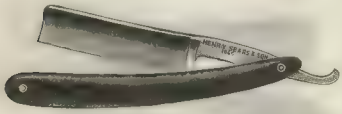


Per Dozen

No. 274—1⅛ inch blade, square point, ¾ concave, full crocus polished, etched "Blue Steel", double shoulder; oval black rubber handle **$30.00**

No. 275—⅞ inch blade, otherwise same as No. 274 ..... **30.00**

No. 276—⅞ inch blade, round point otherwise same as No. 274 ..... **30.00**



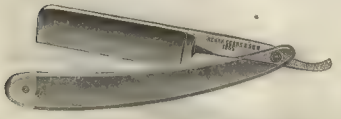
For the Expert Barber.

Per Dozen

No. 560—⅝ inch blade, square point, full concave, finely glazed, double shoulder, crocus polished and file tang; oval black rubber handle **$36.00**

No. 561—⅝ inch blade, etch carnival special Barber tang; motle flat celluloid handle, otherwise same as No. 560 ..... **42.00**

No. 565—⅝ inch blade, square point with rounded back, full concave, firmly glazed, double shoulder, oval black rubber handle **36.00**

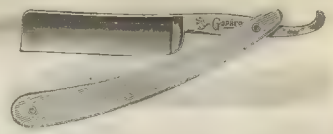


Per Dozen

No. 562—⅞ inch blade, square point with rounded tip, full crocus polished, double shoulders, flat amber colored celluloid handle **$30.00**

No. 563—Same as No. 562, except flat purple transparent celluloid handle **30.00**

No. 564—Same as No. 562, except flat green transparent celluloid handle **30.00**



Per Dozen

No. 567—¾ inch blade, square point with rounded back, full concave, double shoulder, full crocus polish, tang stamped "Gopher," flat white ivory handle **$42.00**

The original "Queen" Razor. No better quality in the world.

Per Dozen

No. 552—1⅛ inch blade, square point, full concave, etched, double shoulder, crocus polished, file tang; oval black rubber handle **$33.00**

No. 488—⅞ inch blade, otherwise same as No. 552 ..... **33.00**

No. 486—⅞ inch blade, round point, otherwise same as No 552 ..... **33.00**

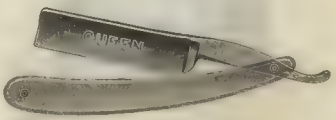
The original "Queen" Razor, ground extra thin for barbers' use.

Per Dozen

No. 850—1⅛ inch blade, square point, full concave, finely glazed, double shoulder, crocus polished and file tang; oval black rubber handle **$36.00**

No. 800—⅞ inch blade, otherwise same as No. 850 ..... **36.00**

No. 801—⅞ inch blade, round point, otherwise same as No. 850 ..... **36.00**



Per Dozen

No. 555—⅞ inch blade, square point, full concave, etched in gold, gold satin finish back and tang, double shoulder; flat amber colored celluloid handle **$33.00**

RAZORS.

HENRY SEARS & SON, 1865, QUALITY WARRANTED.

Henry Sears & Son, 1865, hand forged from the best crucible forged steel and tested. The hardening, tempering finishing, handling and honing is done by the most experienced and best men in the trade.

Per Dozen

No. 984—⅝ inch blade, square point, full concave and full crocus polished, etched, pearl tang; oval black rubber handle **$48.00**

No. 985—Round point, otherwise same as No. 984..... **48.00**

Per Dozen

No. 551—⅝ inch blade, square point, hand forged, full concave, finely glazed, etched in gold, double shoulder, crocus polished and file tang; grained ivory celluloid handle. **$42.00**

Per Dozen

No. 553—⅝ inch blade, hand forged, full concave, finely glazed, etched in gold, double shoulder, hand forged finish tang; grained ivory celluloid handle **$42.00**

No. 553R—⅝ inch blade, round point, otherwise same as No. 553..... **42.00**

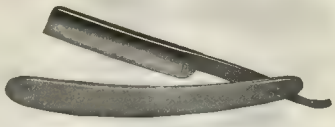
ASSORTMENTS.

Per Assortment

No. 3 Assortment—Consisting of 6 assorted Henry Sears & Son 1865 fine razors, ⅝ inch blades, full crocus polished double shoulders, celluloid covered tangs, two round point, two square point and two square point with rounded backs, handles assorted two each, white ivory, golden pearl celluloid and pearl celluloid, in attractive white satin lined display box.. ..... **$48.00**

JOH. ENGSTROM.

FINE SWEDISH RAZORS.



Per Dozen

No. 107—⅝ inch blade, ¾ concave finely glazed, square point with rounded back, hard forged blade, file tang, oval white ivory handle..... **$48.00**

WORCHESTER RAZOR CO.

Per Dozen

No. 1100S—⅝ inch blade, ¾ concave, glazed finish, square point, oval black hard rubber handle..... **$12.00**

Per Dozen

No. 1100R—⅝ inch blade, round point, ¾ concave, glazed finish, oval black hard rubber handle... ..... **$12.00**

EXTRA QUALITY 10k AND 14k SOLID GOLD THIMBLES

Dont fail to give sizes wanted when ordering Thimbles. Prices Each

3139 10k $6.75
3140 14k 9.75

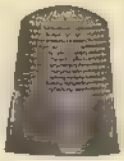
3142 14k 11.00

3144 14k 11.00

3145 10k $8.75
3146 14k 12.00

3147 10k $7.75
3148 14k 11.00

3149 10k $11.00
3150 14k 14.00


3151 10k $11.00
3152 14k 14.25

3153 10k $
3154 14k

Extra Quality Sterling Silver, Gold Band and Gold Filled Thimbles

Prices Each

No 3155....$0.50

No. 3156 . $0.60

No. 3157.....$1.00

No. 3158.....$1.00

No. 3159. ...$1.15

No. 3160 ..$1.35

No. 3161 ....$1.25

No. 3162. .. $1.25

No 3163 $1.35

No. 3164 $1.35

No 3165 $

No 3166 $1.70

3167 .$2.00

Silver gold band
No 3168 $3

Gold filled
No 3169 $3.90

Be sure to specify size wanted when ordering

LADIES' FINE SOLID GOLD HAT PINS

All come fitted with 6 inch stems. Illustrations exact size. Prices Each

English finish.
No 3170.....$2 25

English finish.
No. 3171..... $2 00

English finish.
No. 3172.....$3 00

English finish, pierced open work
No. 3173..... $3.75

English finish, pierced open work
No 3174..... $3 75

English finish, pierced open work ball
No 3175 $4

Polished.
No. 3176....$2 25

English finish.
No. 3177....$3 25

Roman finish.
No. 3178....$2.25

Roman finish.
No. 3179....$4 75

English finish, pierced design, signet top.
No. 3180....$4 00

English finish, pierced design, carved and chased
No. 2181.. .$6.50

Rose gold finish, pierced design, carved and chased
No 3182 $8.50

LATEST AND MOST POPULAR STYLES IN LADIES' HAT PINS

All come fitted with 6 inch stems. Illustrations exact size.

PRICES EACH

Gold filled, English finish

No. 3183.. $1.25

Gold filled, English finish

No. 3184.... $1.25

Rolled gold plate, pearl set

No. 3185.... $0.75

All gold, English finish

No. 3186.... $1.75

Gold filled, English finish, pearl set

No. 3187.... $1.25

Rolled gold plate, gold finish, turquoise set

No. 3188 ... $0 75

Gold filled, English finish, pierced open work.

No. 3189..... $1 25

Gold filled, English finish, pierced open work, signet top.

No. 3190 ... $2 00

Gold filled, Roman finish raised scroll ornaments.

No. 3191.... $1 25

Gold filled, English finish, signet top.

No. 3192 ... $1 25

Gold filled, English finish black enameled top, signet initial

No. 3193.... $1 25

Silver plated, black enameled top, pink coral set.

No. 3194.... $1 50

Gold filled English finish, cameo set.

No. 3195.... $1.25

Gold filled, rose gold finish, amethyst set.

No. 3196 ... $0 90

Sterling silver, oxidized finish ball.

No. 3197..... $1 25

Sterling silver, oxidized finish.

No. 3198..... $1.25

Sterling silver, polished, pierced open work

No 3199 ..... $1 35

Gold filled, Roman finish.

No. 3200 Pair.. $3.25

Gold filled, English finish, amethyst tops.

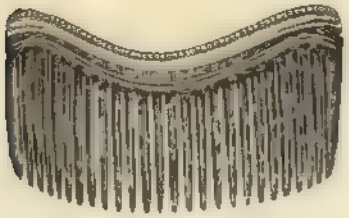
No 3201 Pair $2.75

Gold filled, Roman finish.

No. 3202 Pair... $1.50

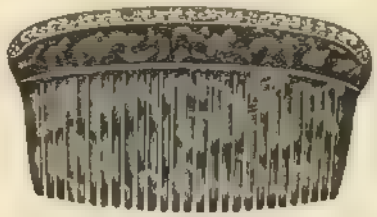
LADIES' FINE BACK AND SIDE COMBS

Finest Quality Tortoise, beautifully trimmed with pleasing effects in the best gold filled mountings. Illustrations are reduced sizes.



SOLID GOLD POLISHED BEADED MOUNTING.

No. 3203 Back comb .....Each $7.25
Width 4½ inches, extreme height, 2¼ inches
No. 3204 Side combs to match. Per pair $11.25
Width, 3½ inches, height, 1¾ inches

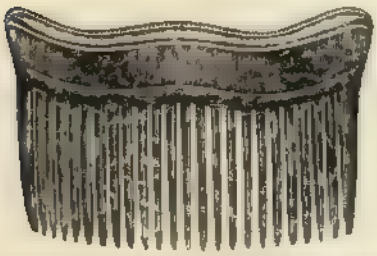


SOLID GOLD ENGLISH FINISH RICHLY CHASED MOUNTING.

No 3205 Back comb.....Each $4.75
Width, 4½ inches; extreme height, 2½ inches

HAIR SET.

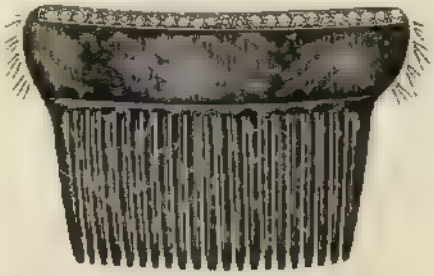
Rolled gold plate, polished beaded mountings, 1 back comb and 2 side combs to match
No. 3206 Complete set of 3 pieces.... $2.25
Back comb width, 3¾ inches, extreme height, 2½ inches.
Side combs—width, 3¼ inches, extreme height, 1¾ inches.



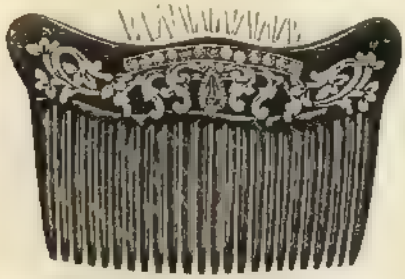
Gold filled mounting, Roman finish, beaded edge
No. 3207 Back comb ..... Each $3.75
Width, 4¼ inches; extreme height, 2¾ inches
No. 3208 Side combs to match. Per pair. $6.75
Width, 4 inches; extreme height, 1⅞ inches.

Gold filled mounting, raised pierced ornaments, Roman rose gold finish, set with 5 pink coral stones.

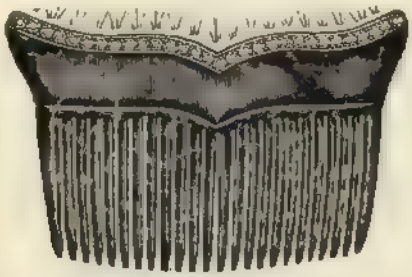
No. 3209 Back comb Each $5.25
Width, 4½ inches; height, 2¾ inches.



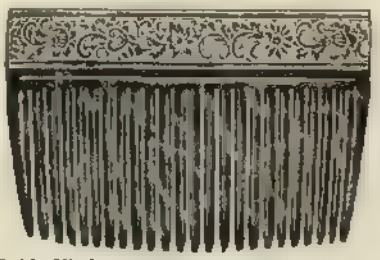
RAISED GOLD FILLED MOUNTING.
Roman finish, studded with brilliants.
No. 3210 Back comb Each $5.25
Width, 4¼ inches; height, 2¾ inches
No. 3211 Side combs to match. Per pair $9.50
Width, 3¼ inches, height, 1¾ inches



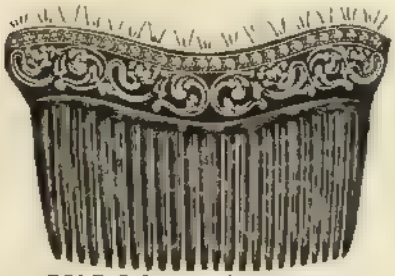
GOLD FILLED MOUNTING.
Roman, rose, green and English finish, raised ornaments set with 1 amethyst and studded with 15 brilliants.
No. 3212 Back comb .....Each $7.50
Width, 4½ inches; extreme height, 2¾ inches.



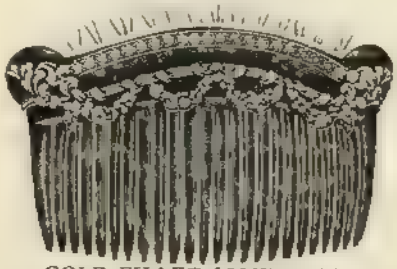
Raised gold filled mounting, Roman finish, studded with brilliants.
No. 3213 Back comb . . Each $5.25
Width, 4½ inches; extreme height 2¾ inches.
No. 3214 Side combs to match. Per pair $9.00
Width, 3¾ inches; extreme height, 1¾ inches.



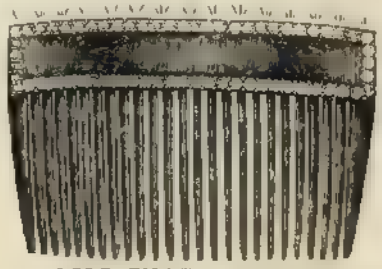
Gold filled mounting, English finish, engraved and chased
No. 3215 Back comb ....Each $3.30
Width, 4½ inches, height, 2¾ inches.
No. 3216 Side combs to match. Per pair $5.50
Width, 3¼ inches, height, 1¾ inches.



GOLD FILLED MOUNTING
Roman rose and green gold finish, raised ornaments, studded with brilliants.
No 3217 Back comb Each $7.50
Width 4¼ inches extreme height, 2¾ inches



GOLD FILLED MOUNTING
Roman, rose and green gold finish, raised ornaments, studded with brilliants
No 3218 Back comb Each $7.50
Width, 4½ inches, extreme height 2¾ inches



GOLD FILLED MOUNTING.
Roman finished raised trimming, studded with brilliants.
No 3219 Back comb Each $8.00
Width, 4¼ inches, extreme height, 2¾ inches

FINE GOLD FILLED BARRETTES

Illustrations are exact size. Prices Each.

ENGLISH FINISH
No. 3220 .....$1.25

ENGLISH FINISH.
No. 3221..... .....$1.25

ENGLISH FINISH.
No. 3222..... $1.25

1847 ROGERS BROS. **SILVER PLATED FLAT WARE** 1847 ROGERS BROS.

1847 ROGERS BROS.

Best Quality 18% Nickel Silver Base, Plated with Pure Silver and Warranted in Every Respect

1847 ROGERS BROS. XS TRIPLE MARKS **1847 ROGERS BROS.** XS QUINTUPLE

Teaspoons Plated not Less than 6 ozs. Silver to the Gross (Other Staple Pieces in Proportion.)

Teaspoons Plated not Less than 10 ozs Silver to the Gross (Other Staple Pieces in Proportion.

The Plate on Fancy Pieces will be in Keeping with Grades Described Above

CONTINENTAL PATTERN

Bright Finish Handles

Quadruple or 16 Dwt. Plate; **Hollow Handles**; Silver Soldered Crucible Steel; Cimeter Swaged Blades; Quadruple Plated Bright Finish.

MEDIUM KNIFE Per Dozen

No. BMK9¼ Length 9¼ inches; Weight per Dozen 2⅜ lbs. **$20 96**

DESSERT KNIVES Per Dozen

No. BDK8¾ Length 8¾ inches; Weight per Dozen 2⅛ lbs. **$19 74**

Half Dozen in a Flannel Roll, Two Rolls in a Box

Quadruple or 16 Dwt Plate, **Hollow Handles**; Silver Soldered; Four Tines, Bright Finish.

MEDIUM FORKS Per Dozen

No. BHF75—Length 7¾ inches, Weight per Dozen 2 lbs. **$20.96**

DESSERT FORKS Per Dozen

No. BHF77 Length 7⅛ inches; Weight per Dozen 1⅞ lbs. **$18.74**

Half Dozen in a Flannel Roll, Two Rolls in a Box

Half Dozen in a Flannel Roll, Two Rolls in a Box

Flat Handles, Four Tines, Bright Finish

MEDIUM FORKS Per Dozen

No. BFF75—XS Triple Plate; Length 7½ inches; Weight per Dozen 1⅜ lbs. **$13.34**

Half Dozen in a Fancy Silk Lined Box

DESSERT FORKS Per Dozen

No. BDF75 XS Triple Plate; Length 7½ inches; Weight per Dozen 1⅜ lbs. **$11.90**

Half Dozen in a Fancy Silk Lined Box

ORANGE KNIVES

Quadruple or 16 Dwt Plate; Hollow Handles; Silver Soldered, Crucible Steel Cimeter Swaged, Saw Back Blade, Bright Finish.

Per Dozen

No. BOK85—Quadruple Plate Blade; Length 7¼ inches; Weight per Dozen 1⅜ lbs. **$13.90**

FRUIT KNIVES

Quadruple or 16 Dwt. Plate; Hollow Handles, Silver Soldered, Crucible Steel Swaged Blade, Bright Finish

Per Dozen

No. BFK86 Quadruple Plate Blade; Length 6¾ inches; Weight per Dozen 1⅜ lbs. **$12 30**

Half Dozen in a Fancy Silk Lined Box

TEA SPOONS

Length 5⅞ inches; Bright Finish Bowls.

Per Dozen

No. BT10—XS Triple Plate; Weight per Dozen 1 lb. **$6 66**

Half Dozen in a Fancy Silk Lined Box

DESSERT SPOONS

Length 7⅛ inches; Bright Finish Bowls.

Per Dozen

No. BD20—XS Triple Plate; Weight per Dozen 1⅝ lbs. **$11.90**

Half Dozen in a Fancy Silk Lined Box

TABLE SPOONS

Length 8¼ inches; Bright Finish Bowls.

Per Dozen

No. BS80—XS Triple Plate; Weight per Dozen 2⅜ lbs. **$13.34**

Half Dozen in a Fancy Silk Lined Box

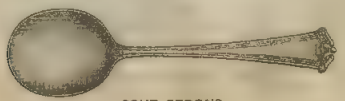
COFFEE SPOONS

Length 4¼ inches

Per Dozen

No. BC1—XS Triple Plate; Bright Finish Bowls **$6.66**

Half Dozen in a Fancy Silk Lined Box



SOUP SPOONS

Length 7 inches Per Dozen

No. BX5—XS Triple Plate Bright Finish Bowls, Weight per Dozen 1⅝ lbs. **$13 34**

One Dozen in a Plain Box

BOUILLON SPOONS

Length 5⅞ inches Per Dozen

No. BV15—XS Triple Plate, Bright Finish Bowls; Weight per Dozen 1¾ lbs. **$11.80**

Half Dozen in a Fancy Silk Lined Box

1847 ROGERS BROS. TRADE MARK

SILVER PLATED FLAT WARE

1847 ROGERS BROS.

Best Quality 18% Nickel Silver Base, Plated with Pure Silver and Warranted in Every Respect

1847 ROGERS BROS. XS TRIPLE MARKS 1847 ROGERS BROS. XS TRIPLE

Tea Spoons Plated not less than 6 ozs. Silver to the Gross (other staple pieces in proportion.)

Tea Spoons Plated not less than 10 ozs. Silver to the Gross (other staple pieces in proportion.)

CONTINENTAL PATTERN

Bright Finish Handles

ICE TEA SPOONS

Per Dozen

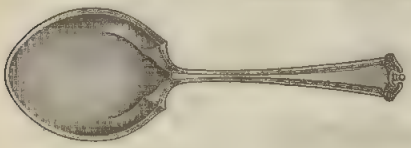
No. BIT40—XS Triple Plate; Bright Finish Bowls; Length 7⅛ inches..... **$10.26**

ORANGE SPOONS

Per Dozen

No. B03—XS Triple Plate; Bright Finish Bowls; Length 5¾ inches..... **$8.46**

Half Dozen in a Fancy Silk Lined Box, Weight per Dozen 1¾ lbs



BERRY SPOONS

Length 8¾ inches

Per Dozen

No. BB8—XS Triple Plate, Bright Finish Bowls..... **$30 78**

One in a Fancy Silk Lined Box. Weight per Dozen 6 lbs.

SUGAR SHELLS

Length 6 inches

Per Dozen

No. BY7—XS Triple Plate, Bright Finish Bowls..... **$14 36**

One in a Silk Lined Box. Weight per Dozen 1 lb.

BABY SPOONS

Length 3½ inches

Per Dozen

No BQ27—XS Triple Plate, Bright Finish Bowls..... **$10 46**

Twelfth Dozen in a Fancy Silk Lined Box. Weight per Dozen 1½ lbs.

LADLES

XS Triple Plate; Bright Finish Bowls

Per Dozen

Cream

No. BCL—Length 5⅝ inches; Weight per Dozen 3 lbs..... **$18.98**

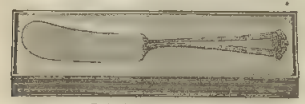
Gravy

No. BGL—Length 7 inches. Weight per Dozen 4½ lbs..... **25.14**

Medium

No. BML—Length 10⅞ inches; Wt. per Dozen 9¾ lbs..... **77 98**

One in a Fancy Silk Lined Box



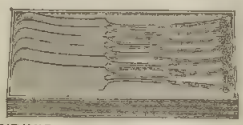
BUTTER KNIVES

Length 7⅛ inches

Per Dozen

No. BBK84—XS Triple Plate; Bright Finish Blades..... **$16.42**

One in a Silk Lined Box, Weight per Dozen 1⅜ lbs.



INDIVIDUAL BUTTER SPREADERS

Length 6¼ inches

Per Dozen

No. BBS86—XS Triple Plate, Bright Finish Blades..... **$10 78**

Half Dozen in a Fancy Silk Lined Box. Weight per Dozen 1¼ lbs

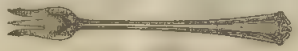
LONG PICKEL FORKS

Length 7⅛ inches

Per Dozen

No. BPF80—XS Triple Plate; Three Tines; Bright Finish..... **$15.40**

One in a Fancy Silk Lined Box; Weight per Dozen 2¼ lbs.



OYSTER FORKS

Length 6 inches

Per Dozen

No. BOF81—XS Triple Plate; Three Tines, Bright Finish..... **$8.72**

Half Dozen in a Fancy Silk Lined Box; Weight per Dozen 1 lb.

1847 ROGERS BROS.

SILVER PLATED FLAT WARE

1847 ROGERS BROS.

1847 ROGERS BROS.

Best Quality 18% Nickel Silver Base, Plated with Pure Silver and Warranted in Every Respect

1847 ROGERS BROS. XS TRIPLE MARKS **1847 ROGERS BROS.** XS QUINTUPLE

Tea Spoons plated not less than 6 ozs. Silver to the Gross (other staple pieces in proportion).

Tea Spoons plated not less than 10 ozs. Silver to the Gross (other staple pieces in proportion).

CONTINENTAL PATTERN

Bright Finish Handles

INDIVIDUAL SALAD FORKS
Length 6 inches

Per Dozen

No. BSF82 XS Triple Plate, Four Times; Bright Finish. $13 34
Half Dozen in a Fancy Silk Lined Box; Weight per Dozen 1¼ lbs.

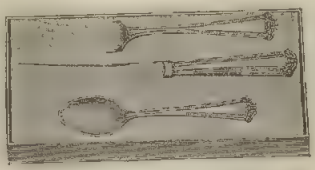
COLD MEAT FORKS
Length 8¼ inches

Per Dozen

No. BCM78 -XS Triple Plate; Four Times; Bright Finish $19 50
One in a Fancy Silk Lined Box; Weight per Dozen 3¾ lbs.

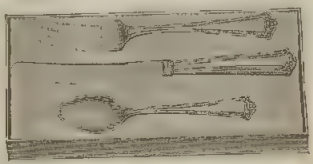
CHILDS SETS

Sets Consist of Three Pieces, Knife, Fork and Spoon; Steel Blade Knife Length 7⅛ inches Quadruple Plated Blades; Flat Handle Fork, Length 6⅛ inches, XS Triple Plate; Flat Handle Spoon, Length 6⅛ inches, XS Triple Plate.



Per Dozen Sets

No. B116—With Solid Handle Knife, Quadruple or 16 Dwt. Plate $33.34
Weight per Dozen Sets 4½ lbs.
One Set in a Fancy Silk Lined Box



Per Dozen Sets

No. B503 –With Hollow Handle Knife, Quadruple or 16 Dwt. Plate $44 12
Weight per Dozen Sets 5¼ lbs.
One Set in a Fancy Silk Lined Box

MAIL ORDER DEPARTMENT

THIS LARGE DEPARTMENT OF OUR BUSINESS WAS BUILT UP AND IS MAINTAINED BY THE ORDERS FROM THE THOUSANDS OF DEALERS TO WHOM WE HAVE GIVEN SATISFACTORY SERVICE AND ON WHOM WE MUST DEPEND FOR ITS FUTURE SUPPORT.

IF YOU ARE NOT USING OUR MAIL ORDER SERVICE TRY IT FOR SIXTY DAYS AS A MEANS OF KEEPING UP STOCK.

1847 ROGERS BROS.

SILVER PLATED FLAT WARE

1847 ROGERS BROS.

Best Quality 18% Nickel Silver Base, Plated with Pure Silver and Warranted in Every Respect

1847 ROGERS BROS. XS TRIPLE MARKS 1847 ROGERS BROS. XS QUINTUPLE

Tea Spoons Plated not Less than 6 ozs Silver to the Gross (Other Staple Pieces in Proportion).

Tea Spoons Plated not Less than 10 ozs Silver to the Gross (Other Staple Pieces in Proportion).

The Plate on Fancy Pieces will be in Keeping with Grades Described Above

CROMWELL PATTERN

Bright Finish Handles

Quadruple or 16 Dwt Plate; **Hollow Handles**, Silver Soldered; Crucible Steel, Cimeter Swaged Blades, Quadruple Plated, Bright Finish.

MEDIUM KNIVES — Per Dozen

No. CMK8¾—Length 9¾ in.; Wt. per Doz. 2½ lbs. $20 96

DESSERT KNIVES — Per Dozen

No. CDK8¾—Length 8¼ in.; Wt. per Doz. 2¼ lbs. $19 74

Half Dozen in a Flannel Roll; Two Rolls in a Box

Quadruple or 16 Dwt Plate, Hollow Handles, Silver Soldered; Four Tines, Bright Finish.

MEDIUM FORKS — Per Dozen

No. CHF75—Length 7¾ in.; Wt. per Doz. 2 lbs. $20.96

DESSERT FORKS — Per Dozen

No. CHF77—Length 7¼ in., Wt. per Doz. 1⅞ lbs. $19 74

Flat Handles, Four Tines, Bright Finish

MEDIUM FORKS — Per Dozen

No. CFF75—XS Triple Plate, Length 7⅛ in. $13 34

No. CFF76—XS Quintuple Plate; Length 7⅛ in. 17 44

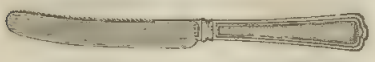
Weight per Dozen 1⅓ lbs.

DESSERT FORKS — Per Dozen

No. CDF77—XS Triple Plate, Length 7 in. $11 90

No. CDF78—XS Quintuple Plate; Length 7 in. 15.40

One Dozen in a Plain Box — Weight per Dozen 1¼ lbs.



ORANGE KNIVES

Quadruple or 16 Dwt Plate; Hollow Handles Silver Soldered; Crucible Steel, Cimeter Swaged, Saw Back Blade Bright Finish.

Per Dozen

No. COK85—Quadruple Plate Blade; Length 7¼ in. $18.52

Weight per Dozen 1⅝ lbs.

FRUIT KNIVES

Quadruple or 16 Dwt Plate, Hollow Handles, Silver Soldered; Crucible Steel Swaged Blade, Bright Finish.

Per Dozen

No. CFK88—Quadruple Plate Blade, Length 6¾ in. $16 58

Half Dozen in a Fancy Silk Lined Box — Weight per Dozen 1⅝ lbs.

TEA SPOONS

Length 5⅞ in.; Bright Finish Bowls

Per Dozen

No. CT10—XS Triple Plate $6.66

No. CT15—XS Quintuple Plate 8 72

Weight per Dozen 1 lb.

DESSERT SPOONS

Length 7⅛ in.; Bright Finish Bowls

Per Dozen

No. CD20—XS Triple Plate $11.90

No. CD25—XS Quintuple Plate 15 40

Weight per Dozen 1⅔ lbs.

One Dozen in a Plain Box

TABLE SPOONS

Length 8¼ in.; Bright Finish Bowls

Per Dozen

No. CS30—XS Triple Plate $13.34

No. CS35—XS Quintuple Plate. 17.44

Weight per Dozen 2⅓ lbs.

COFFEE SPOONS

Length 4¼ in.

Per Dozen

No. CC1—XS Triple Plate; Bright Finish Bowls $6.66

Half Dozen in a Fancy Silk Lined Box; Weight per Dozen ¾ lb.

SOUP SPOONS

Length 7 in.

Per Dozen

No. CX5—XS Triple Plate; Bright Finish Bowls $13 34

One Dozen in a Plain Box; Weight per Dozen 1⅔ lbs.

BOUILLON SPOONS

Length 5⅛ in.

Per Dozen

No. CV15—XS Triple Plate Bright Finish Bowls $11 86

Half Dozen in a Fancy Lined Box; Wt. per Doz. 1¼ lbs.

Also See Carvers in This Pattern

SILVER PLATED FLAT WARE

1847 ROGERS BROS.

Best Quality 18% Nickel Silver Base, Plated with Pure Silver and Warranted in Every Respect

MARKS 1847 ROGERS BROS. XS QUINTUPLE
Tea Spoons plated not less than 10 ozs. Silver to the Gross (other staple pieces in proportion).

1847 ROGERS BROS. XS QUINTUPLE
Tea Spoons plated not less than 6 ozs. Silver to the Gross (other staple pieces in proportion).

CROMWELL PATTERN
Bright Finish Handles

SUGAR SHELLS
Length 6 inches
Per Dozen
No. CY7—XS Triple Plate; Bright Finish Bowls..... $14 36
One in a Silk Lined Box; Wt. per Dozen 1 lb.

BUTTER KNIVES
Length 7¼ inches
Per Dozen
No. CBK84—XS Triple Plate; Bright Finish Blades $16.42
One in a Silk Lined Box; Wt. per Doz. 1¾ lbs.

LONG PICKLE FORKS
Length 7⅛ inches
Per Dozen
No. CPF80—XS Triple Plate, Three Tines, Bright Finish..... $15.40
One in a Fancy Silk Lined Box; wt. per Dozen 2¼ lbs.

INDIVIDUAL SALAD FORKS
Length 6 inches
Per Dozen
No. CSF82—XS Triple Plate; Four Tines, Bright Finish..... $13 34
Half Dozen in a Fancy Silk Lined Box; Wt. per Doz. 1¼ lbs.

BERRY SPOONS
Length 8¾ inches
Per Dozen
No. CB8—XS Triple Plate; Bright Finish Bowls..... $30.78
One in a Fancy Silk Lined Box; Wt. per Dozen 6 lbs.

LADLES
XS Triple Plate; Bright Finish Bowls

Cream
Per Dozen
No. CCL—Length 5⅝ inches; Weight per Dozen 3 lbs $13 98

Gravy
No. CGL—Length 7 inches; Weight per Dozen 4½ lbs 25 14

Oyster
No. COL—Length 9⅜ inches; Weight per Dozen 8¼ lbs 58 48

Medium
No. CML—Length 14¾ inches; Weight per Dozen 9¾ lbs 77.98
One in a Fancy Silk Lined Box

Also See Carvers in This Pattern

SMALL SUGAR TONGS
Length 4⅜ inches
Per Dozen
No. CST47—XS Triple Plate; Bright Finish Prongs..... $25.14
Two in a Plain Box; Weight per Dozen ¾ lb.

INDIVIDUAL BUTTER SPREADERS
Length 6¼ inches
Per Dozen
No. CBS86—XS Triple Plate; Bright Finish Blades $10.78
Half Dozen in a Fancy Silk Lined Box; Wt. per Dz. 1¼ lbs.

OYSTER FORKS
Length 6 inches
Per Dozen
No. COF81—XS Triple Plate; Three Tines, Bright Finish..... $8.72
Half Dozen in a Fancy Silk Lined Box; Wt. per Doz. 1 lb.

COLD MEAT FORKS
Length 8¾ inches
Per Dozen
No. CCM79—XS Triple Plate; Four Tines, Bright Finish..... $19.60
One in a Fancy Silk Lined Box; Wt. per Dozen 3¾ lbs.

ORANGE SPOONS
Length 5¾ inches
Per Dozen
No. CO3—XS Triple Plate; Bright Finish Bowl..... $8 46
Half Dozen in a Fancy Silk Lined Box; Weight per Dozen 1⅝ lbs.

1847 ROGERS BROS. TRADE MARK

SILVER PLATED FLAT WARE IN SETS

1847 ROGERS BROS.

Best Quality 18% Nickel Silver Base, Plated With Pure Silver and Warranted in Every Respect

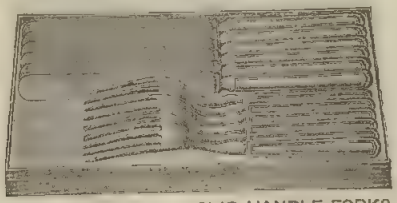
MARKS 1847 ROGERS BROS. XS TRIPLE — 1847 ROGERS BROS. XS QUINTUPLE

Tea Spoons Plated not less than 6 ozs. Silver to the Gross (other staple pieces in proportion).

Tea Spoons Plated not less than 10 ozs. Silver to the Gross (other staple pieces in proportion).

The Plate on Fancy Pieces will be in keeping with Grades described above

CROMWELL PATTERN
Bright Finish Handles



SOLID HANDLE KNIVES AND SOLID HANDLE FORKS IN SETS

MEDIUM KNIVES

Quadruple or 16 Dwt. Plate **Solid Handles**, Silver Soldered; Crucible Steel, Cimeter Swaged Blades, Quadruple, Bright Finish.

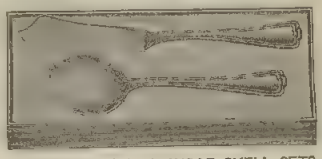
MEDIUM FORKS

Quadruple or 16 Dwt. Plate **Solid Handles**, Four Tines, Brigh Finish.

Per Set

No. C154½—Medium; Set Contains Six Solid Handle Knives and Six Solid Handle Forks; Weight per Set 2½ lbs..... **$8.04**

One Set in a Box



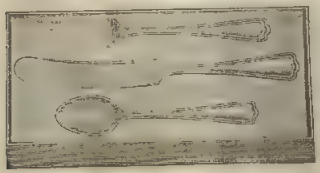
BUTTER KNIFE AND SUGAR SHELL SETS

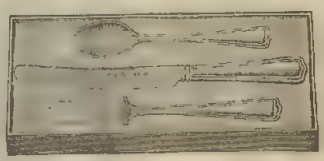
Set Consists of One Butter Knife, Length 7⅛ in. Bright Finish Blade, and One Sugar Shell Length 6 in., Bright Finish Bowl.

Per Dozen Sets

No. C804—XS Triple Plate **$30 26 22.00**

One Set in a Fancy Silk Lined Box. Weight per Dozen Sets 4 lbs.





CHILDS SETS

Sets Consist of Three Pieces; Knife, Fork and Spoon; Steel Blade Knife, Length 7⅛ in., Quadruple Plated Blades; Flat Handle Fork, Length 6⅛ in., XS Triple Plate; Flat Handle Spoon, Length 5⅝ in., XS Triple Plate.

Per Dozen Sets

No. C116—With **Solid Handle** Knife, Quadruple or 16 Dwt Plate..... **$33 34 24 00**

Weight per Dozen Sets 4⅛ lbs.

Per Dozen Sets

No. C593—With **Hollow Handle** Knife, Quadruple or 16 Dwt Plate **$44 12 31.50**

Dozen Sets 5¼ lbs.

One Set in a Fancy Silk Lined Box.

Also See Carvers in this Pattern

1847 ROGERS BROS. TRADE MARK

SILVER PLATED FLAT WARE

1847 ROGERS BROS.

1847 ROGERS BROS. TRADE MARK

Best Quality 18% Nickel Silver Base, Plated with Pure Silver and Warranted in every Respect

MARKS

1847 ROGERS BROS. XS TRIPLE

Teaspoons Plated not Less than 6 ozs. Silver to the Gross (Other Staple Pieces in Proportion).

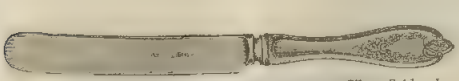
1847 ROGERS BROS. XS QUINTUPLE

Teaspoons Plated not Less than 10 ozs. Silver to the Gross (Other Staple Pieces in Proportion).

The Plate on Fancy Pieces will be in Keeping with Grades described above

OLD COLONY PATTERN

French Gray Finish Handles



Quadruple or 16 Dwt.; Plate; **Hollow Handles,** Silver Soldered; Crucible Steel, Cimeter Swaged Blades, Quadruple Plated, Bright Finish.

MEDIUM KNIVES — Per Dozen

No. OMK9¾ Length 9¾ in; Wt. per Doz. 9½ lbs. $20 96

DESSERT KNIVES — Per Dozen

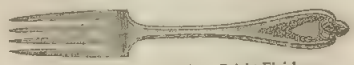
No. ODK8¾—Length 8¾ in.; Wt. per Doz. 2½ lbs $19.74

Half Dozen in a Flannel Roll; One Roll in a Box

Quadruple or 16 Dwt. Plate; **Hollow Handles,** Silver Soldered Four Tines, Bright Finish.

MEDIUM FORKS — Per Dozen

No. OHF75—Length 7¾ in; Wt. per Doz. 2 lbs..... $20.96



Flat Handles; Four Tines, Bright Finish.

MEDIUM FORKS — Per Dozen

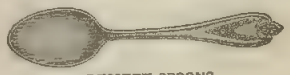
No. OFF75—XS Triple Plate; Length 7⅛ in $13 34
No. OFF70—XS Quintuple Plate; Length 7⅛ in. 17.44

Weight per Dozen 1½ lbs.
One Dozen in a Plain Box

DESSERT FORKS — Per Dozen

No. ODF77—XS Triple Plate; Length 7 in. $11.90
No. ODF78—XS Quintuple Plate; Length 7 in. 15.40

Weight per Dozen 1¼ lbs.
One Dozen in a Plain Box.



TEA SPOONS

Length 5⅞ in.; Bright Finish Bowls. — Per Dozen

No. OT10—XS Triple Plate $6.66
No. OT15—XS Quintuple Plate..... 8.72

Weight per Dozen 1 lb.

DESSERT SPOONS

Length 7⅛ in.; Bright Finish Bowls. — Per Dozen

No. OD20—XS Triple Plate..... $11.90
No. OD25—XS Quintuple Plate 15.40

Weight per Dozen 1½ lbs.
One Dozen in a Plain Box.

TABLE SPOONS

Length 8¼ in.; Bright Finish Bowls. — Per Dozen

No. OS30—XS Triple Plate. $13 34
No. OS35—XS Quintuple Plate. 17 44

Weight per Dozen 2½ lbs.

COFFEE SPOONS

Length 4¼ inches — Per Dozen

No. OC1—XS Triple Plate; Bright Finish Bowls..... $6.66

Half Dozen in a Fancy Silk Lined Box; Weight per Dozen ¾ lb.

SOUP SPOONS

Length 7 inches — Per Dozen

No. OX5—XS Triple Plate; Bright Finish Bowls..... $13.34
No. OX6—XS Quintuple Plate; Bright Finish Bowls..... 17 44

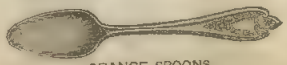
One Dozen in a Plain Box; Weight per Dozen 1½ lbs.

BOUILLON SPOONS

Length 5⅝ inches — Per Dozen

No. OV15—XS Triple Plate; Bright Finish Bowls..... $11.80

Half Dozen in a Fancy Silk Lined Box; Weight per Dozen 1¼ lbs.



ORANGE SPOONS

Length 5¼ inches — Per Dozen

No. OO3—8XS Triple Plate; Bright Finish Bowls..... $8 46
No. OO1—XS Triple Plate; Gold Lined Bowls..... 13 60

Half Dozen in a Fancy Silk Lined Box; Weight per Doz. 1½ lb.

1847 ROGERS BROS.

SILVER PLATED FLAT WARE

1847 ROGERS BROS.

1847 ROGERS BROS.

Best Quality 18% Nickel Silver Base, Plated with Pure Silver and Warranted in Every Respect

MARKS

1847 ROGERS BROS. XS TRIPLE

Tea Spoons Plated Not Less than 6 ozs. Silver to the Gross (Other Staple Pieces in Proportion).

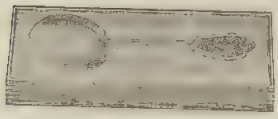
1847 ROGERS BROS. XS QUINTUPLE

Tea Spoons Plated Not Less than 10 ozs. Silver to the Gross (Other Staple Pieces in Proportion).

The Plate on Fancy Pieces will be in Keeping with Grades Described Above

OLD COLONY PATTERN

French Gray Finish Handles

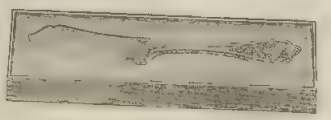


SUGAR SHELLS

Length 6 inches — Per Dozen

No. OY7—XS Triple Plate; Bright Finish Bowls $14 36

One in a Fancy Silk Lined Box; Weight per Dozen 1 lb.

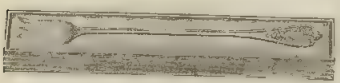


BUTTER KNIVES

Length 7¼ inches — Per Dozen

No. OBK84—XS Triple Plate; Bright Finish Blades. $16.42

One in a Fancy Silk Lined Box; Weight per Dozen 1⅛ lbs.



LONG PICKLE FORKS

Length 7¼ inches — Per Dozen

No. OPF80—XS Triple Plate; Three Tines, Bright Finish..... $15.40

One in a Fancy Silk Lined Box; Weight per Dozen 2¼ lbs.

INDIVIDUAL BUTTER SPREADERS

Length 6¼ inches — Per Dozen

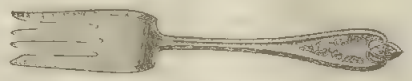
No. OBS86—XS Triple Plate, Bright Finish Blades $10.78

Half Dozen in a Fancy Silk Lined Box; Weight per Dozen 1¼ lbs.

OYSTER FORKS

Length 6 inches — Per Dozen

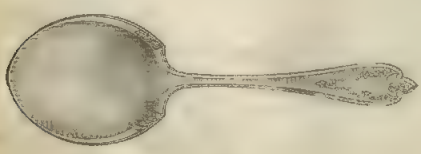
No. OOF81—XS Triple Plate; Three Tines, Bright Finish.....$8.72

Half Dozen in a Fancy Silk Lined Box; Weight per Dozen 1 lb.

COLD MEAT FORKS

Length 8¼ inches — Per Dozen

No. OCM79—XS Triple Plate; Four Tines, Bright Finish.....$19.50

One in a Fancy Silk Lined Box; Weight per Dozen 3¾ lbs.



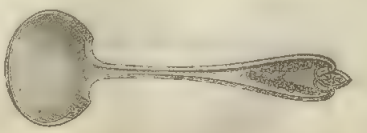
BERRY SPOONS

Length 8¾ inches

Per Dozen

No. OBS—XS Triple Plate; Bright Finish Bowls. $30.78

One in a Fancy Silk Lined Box; Weight per Dozen 6 lbs.



LADLES

XS Triple Plate; Bright Finish Bowls

Cream — Per Dozen

No. OCL—Length 5⅝ inches; Weight per Dozen 3 lbs.....$18 98

Gravy

No. OGL—Length 7 inches; Weight per Dozen 4½ lbs..... 25 14

Oyster

No. OOL—Length 7¼ inches; Weight per Dozen 4 lbs. 58 48

Medium

No. OML—Length 10½ inches; Weight per Dozen 7½ lbs 77 98

One in a Fancy Silk Lined Box

1847 ROGERS BROS. TRADE MARK

SILVER PLATED FLAT WARE

1847 ROGERS BROS.

Best Quality 18% Nickel Silver Base, Plated with Pure Silver and Warranted in Every Respect

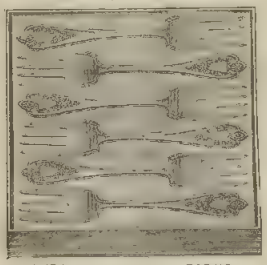
1847 ROGERS BROS. XS TRIPLE MARKS Tea Spoons plated not less than 4 ozs. Silver to the Gross (other staple pieces in proportion).

1847 ROGERS BROS. XS QUINTUPLE Tea Spoons plated not less than 10 ozs Silver to the Gross (other staple pieces in proportion).

The Plate on Fancy Pieces will be in keeping with Grades described above.

OLD COLONY PATTERN

French Gray Finish Handles



INDIVIDUAL SALAD FORKS

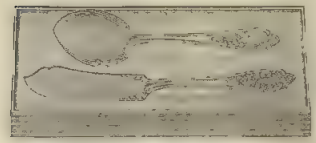
Length 6 inches

Per Dozen

No. OSF82—XS Triple Plate; Four Tines, Bright Finish **$13 34**

Half Dozen in a Fancy Silk Lined Box; Weight per Dozen 1¼ lbs.

IN SETS



BUTTER KNIFE AND SUGAR SHELL SETS

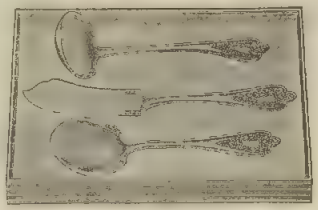
Set consists of One Butter Knife, Length 7⅛ in., Bright Finish Blade, and One Sugar Shell, Length 6 in., Bright Finish Bowl.

Per Dozen Sets

No. O604—XS Triple Plate. **$30 26**

Weight per Dozen Sets 4½ lbs.

One Set in a Fancy Silk Lined Box



CREAM SETS

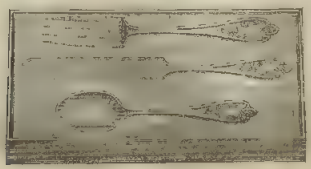
Set consists of One Cream Ladle, Length 6⅜ in., Bright Finish Bowl; One Butter Knife, Length 7⅛ in., Bright Finish Blade, and One Sugar Shell, Length 6½ in., Bright Finish Bowl.

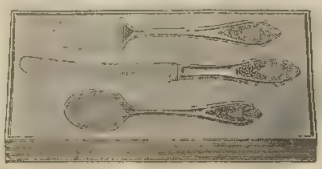
Per Dozen Sets

No. O702—XS Triple Plate. **$55 44**

Weight per Dozen Sets 6 lbs.

One Set in a Fancy Silk Lined Box





CHILDS SETS

Sets consist of Three Pieces, Knife, Fork and Spoon; Steel Blade Knife, Length 7½ inches, Quadruple Plated Blade; Flat Handle Fork, Length 6⅛ inches, XS Triple Plate; Flat Handle Spoon, Length 5⅛ inches, XS Triple Plate

Per Dozen Sets

No. O116—With Solid Handle Knife; Quadruple or 10 Dwt **$33 34**

Weight per Dozen Sets 4½ lbs.

One Set in a Fancy Silk Lined Box

Per Dozen Sets

No. O593—With Hollow Handle Knife; Quadruple or 10 Dwt **$44 12**

Weight per Dozen Sets 5¼ lbs.

One Set in a Fancy Silk Lined Box

Little Hardware Shopping Adventures

By FRANK FARRINGTON

Seeing About a Saw

I HEARD a great pounding in the garage and went in to see what was going on. The small boy of the family was at the work bench.

"What's going on here?" I asked.

"Making a boat," was the reply. "Can't you help me? I want to cut off these pieces for the bottom."

The work had not progressed far enough so that it was very plain just what kind of a boat it was to be, but as long as the boy knew, that was enough, I suppose. I took the pieces he wanted cut and experimented with a knife and with everything else available, but plainly the job called for a saw, and a saw was just what we did not have. I put the boy off and told him I would bring home a saw at night and we would finish the boat.

A little persuasion carried the day and when I went downtown it was with the thought in mind that I must buy a saw that day, whether I did anything else or not. You know how it is when you make a promise to one of these little folks. You might break a promise to the bank, but not to the kiddies.

I went into a hardware store right where I got off from the car. I say I went in. In reality I sort of fell in, because they had one of those spring screen doors with a spring so stiff that it was all I could do to pull it open far enough to get through, and then the thing turned and shoved me on in with a force that nearly projected me into the arms of a woman about to make a try at getting out. I believe there is such a thing as too much spring on a screen door.

A young woman stood behind the counter. That appealed to me because I thought, "Here is a store that has sent its men to war and replaced them with girls."

"Good morning," I said. "Can you show me some saws?"

"There'll be a salesman here in a minute," said the lady haughtily. I saw that I had made a mistake about the patriotism of the store and that I had unwittingly insulted the cashier or the manager's wife or something. I apologized and sat down on a stool and tried to see saws somewhere around the room. After waiting ten minutes, and you know that seems like half an hour under such circumstances, I did catch sight of some saws and I went over to look at them.

OUT of the corner of my eye I could see that the lady on the watch was taking no chances, but followed me with her keen glance. I didn't dare touch the saws when I got to them. I wished for a side door near the saw case. I did not wish in vain, for I discovered one opening on a side street, and without waiting to ask permission, I escaped.

It was with a sigh of relief that I left the vicinity of that store. I felt no inclination to return, even when I looked back and noticed that one window contained a very elaborate display of saws.

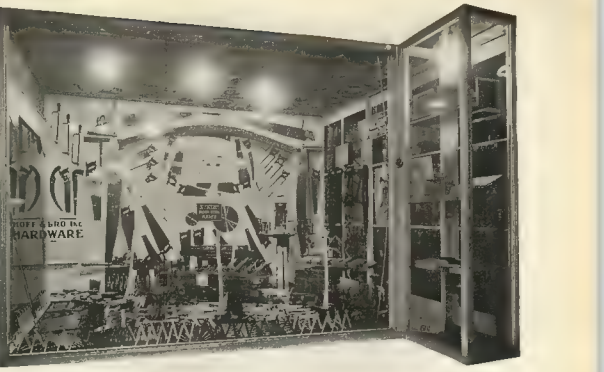
I knew where there was another hardware store, and I made for it. I smiled to myself when I reached it and saw in the window a sign, "Every thing in Saws." A benevolent appearing old gentleman with spectacles was seated just back of the window in a chair which bore the marks of age and the whittler's knife. When I entered he leaned forward in his chair in an interested way and bade me good morning. I good-morninged back, and asked to see some saws.

"Yes, sir; what kind of a saw?" he asked, arising and standing there as if awaiting explicit information.

"Well, I don't know just what kind of a saw you'd call it, but I guess a kind of family saw; something to use around the place when you want to saw something."

He started back through the store, saying, "I'm afraid we haven't got just the saw you want. Could you use a mitre-box saw?"

Display of saws which suggests a complete and varied stock. In the foreground a miniature battleship has been contrived by the utilization of a band saw



Saw window by Hoff & Bro., Reading, Pa. This picture was taken at night, but every object is plainly revealed by the good lighting above

I didn't know anything about that and I told him so. He showed me one of them and I saw that it wouldn't do for my purpose. He showed me big saws, rip saws, buck saws, hack saws, meat saws, little saws, saws five feet or so in length. He seemed to be trying to live up to the sign that said everything in saws, but he couldn't produce a saw that fitted my need. He was all out of common, ordinary, plain saws, such as a man would want in helping the kiddie build a boat. I tried to get away quickly when I discovered this fact, but in spite of anything I could do, it took me a quarter of an hour to complete my visit.

The man didn't try to sell me any of his specialty saws, but he insisted upon showing them. I have come to the conclusion since that, although he was kind of a fussy old fogy, still he may have had some method in his operations, because I haven't been able to get his collection of saws out of my mind, and I have to admit that if I wanted any kind of a freak saw I would probably go right back there for it—but if I wanted a common saw, just the ordinary family variety, I would go elsewhere. That store and the man in it lacked in salesmanship and it lacked in pep, and it was fatally short in stock, but it did have something. It had the determination to show what it had and to impress it upon the visitor's mind.

I WAS still sawless and I couldn't spend the whole forenoon making friendly or unfriendly visits at hardware stores. I gave it up until after luncheon. When I went down in the elevator at lunch time I asked the elevator boy if he knew of a good hardware store nearby besides the ones I had called on. "Sure," he said. "There's Ogilvie's Hardware, corner Third and Spring." I had forgotten Ogilvie's and I hastened that way after lunch.

From half a block away I could see the sign, "OGILVIE'S," and right below the name was the word "Tools" in smaller letters. That was what I was after. A saw is a tool

Ogilvie's is such a big, busy place that I didn't expect to get very careful attention, but I guess there is some reason for its being big and busy.

Here again I was met by a girl, but this time it was not one of the haughty kind. She was short and freckled and homely, but she was businesslike, and she was there to wait on customers, not merely for them to look at while they waited. I told her I wanted to get a common handsaw, just one to use around the house for odd jobs. She smiled as she led me away, and I went on to say that I was going to help the kiddie build a boat

"We've got just the kind of a saw you want. I know, because we fuss with such things up at my house, and father is always tinkering in the barn."

I knew I had come to the right place and found the right clerk, because that "tinkering in the barn" described the kind of operations for which you need such a saw as I wanted. They had more space devoted to saws than any of the other stores, and they had something I don't believe you ever saw in any other hardware store. They had a work bench and some odd pieces of lumber, and she gave me a chance to try the saw she showed me. What do you think of that? She not only told me the saw was what I wanted, she gave me the evidence of my own experience with it. As soon as I saw that work bench I was sold on that store's methods. I asked about it

"Yes," she said, "that bench is arranged just so people can try the tools. If you want to drive a nail with a hammer to see how it hangs, or if you want to try out a plane, or anything else, you can do it right here. You don't have to take tools home and use them before you know whether they are what you want or not. It's an idea of Mr. Ogilvie's. He's a wonderful man about managing a store. He's just full of ideas like that. Of course, we sell those work benches, and it gives us a chance to demonstrate the benches as well as the tools. You see, that bench comes knocked down. We have them in six different lengths, and we can even make one

In this window the most conspicuous card made clever use of the fact that the saws on display are appearing in a current vaudeville act

into a special length where a man has a space just so long where he wants to use one. What kind of a bench do you have?"

I HAD to admit that our work bench was just an old kitchen table.

"Do you mind my saying," she asked, "that I believe it would be worth many times the price of the bench for you to have one of these and a few good tools so your boy will learn how to use them right and how to take care of them? Every boy ought to know how to handle common tools, and it ought to be a part of his education to learn to take care of his things. You see, there is a rack goes right back of the bench, and it's a part of it, and that gives a place to put everything you use regularly, and there's a drawer underneath for many things."

But why go on? I wanted my boy to be handy with tools. I wanted him to learn to put things back where he found them. I wanted him to learn the rule of a place for everything and everything in its place. I ordered one of those benches, and made my plans to give the boy new tools, one at a time, on a basis of rewards of merit, birthday presents, etc.

If I were to tell my wife about the girl selling me the bench, she would insist that the girl was pretty and had hypnotized me. I know that she was terribly homely, but terribly efficient, and if she hypnotized me it was the hypnotism of good salesmanship rather than superior will power.

Anyway, we now have a good work bench, and everything has to be kept shipshape or I insist upon knowing the reason why. And I go back to Ogilvie's when I want more tools, and incidentally, I am quite likely to go back there when I want anything in the hardware line.

SINGLE BIT AXES

*BLACK PRINCE

Black Prince Axes are Hand Hammered, Hand Tempered and Hand Whetted. The Bits are made of Highest Grade Crucible Steel Drawn Thin and Tempered Hard to Hold a Fine Cutting Edge. Soft Steel Body, with **Eye Punched** from Solid Steel (not Welded); the Eye Tapers from Outer to Inner Opening; this Holds the Handle Firmly and Prevents its Splitting.

In Ordering Axes on this Page, Give Numbers and Weights Only

DIAMOND EDGE
Axe Wedge Used in All of Our Handled Axes. Full Description on Page 3.

UNHANDLED

NO. BP175—ROCKAWAY JERSEY PATTERN

Hatchet Pattern Bit; Square Head

Hand Made; Dead Black Finish; Labeled.

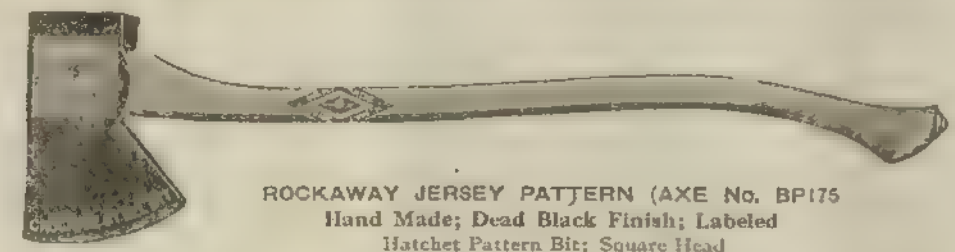
	3 #	3½ 4½
Weights, Assorted		
Per Dozen	$20 50	21 00

One Dozen of each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below Handled with Appropriate Styles and Grades of Handles.

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



ROCKAWAY JERSEY PATTERN (AXE No. BP175
Hand Made; Dead Black Finish; Labeled
Hatchet Pattern Bit; Square Head

Kind of Handle	Weights, Assorted	3 #	3½ 4½
No. BP175AAA—With No. AAA Norleigh Diamond Octagon, Plain End	[illegible]	$28 00	$28 50
No. BP175BBB—With No. BBB Norleigh Diamond Oval, Plain End	"	28 00	28 50
No. BP175A—With No. A Norleigh Diamond Octagon, Scroll End	"	27 50	28 00
No. BP175B—With No. B Norleigh Diamond Oval, Scroll End	"	27 50	28 00
No. BP175BN—With No. BN Norleigh Diamond Oval, Plain End, Light Northern	"	27 50	28 00
No. BP175C—With No. C Favorite Octagon, Scroll End	"	26 50	27 00
No. BP175D—With No. D Favorite Oval, Scroll End	"	26 50	27 00
No. BP175DN—With No. DN Favorite Oval, Plain End, Light Northern	"	26 50	27 00
No. BP175FH—With No. FH Favorite Octagon, Plain End	"	26 50	27 00
No. BP175E—With No. E Tip Top Octagon, Plain End	"	25 50	26 00
No. BP175XE—With No. XE Tip Top Octagon, Straight Pattern	"	25 50	26 00
No. BP175F—With No. F Tip Top Oval, Plain End	"	25 50	26 00
No. BP175XF—With No. XF Tip Top Oval, Straight Pattern	"	25 50	26 00
No. BP175TTN—With No. TTN Tip Top Oval, Plain End, Light Northern	"	25 50	26 00
No. BP175L—With No. L Mound City Oval, Plain End	"	24 50	25 00
No. BP175PLO—With No. PLO Mound City Octagon, Plain End	"	24 50	25 00
No. BP175FO—With No. FO Favorite Oval, Scroll End, Oak	"	25 50	26 00
No. BP175LO—With No. LO Live Oak, Plain End, Oak	"	25 50	26 00

One Dozen of Each Assortment of Weights in a Crate, Average Weight per Crate 75 lbs.

SINGLE BIT AXES

★BLACK PRINCE

Black Prince Axes are Hand Hammered, Hand Tempered and Hand Whetted. The Bit is Made of Highest Grade Crucible Steel, Drawn Thin and Tempered Hard to Hold a Fine Cutting Edge. Soft Steel Body. The Eye is Punched from Solid Steel, and will not Stretch nor Break, as occurs with Axes having a Rolled or Welded Eye. The Eye is Tapered from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting.

In Ordering Axes on this Page, Give Numbers and Weights Only.

UNHANDLED

Hand Made; Dead Black Finish; Labeled.

No. BP100—DAYTON PATTERN
Wide Bit; Square Head

Weights, Assorted	3 4	3½ 4	4 5	4½ 5½
Per Dozen	$22 00	22 50	23 00	23 50

No. BP200—MICHIGAN PATTERN
Wide Bit; Round Head

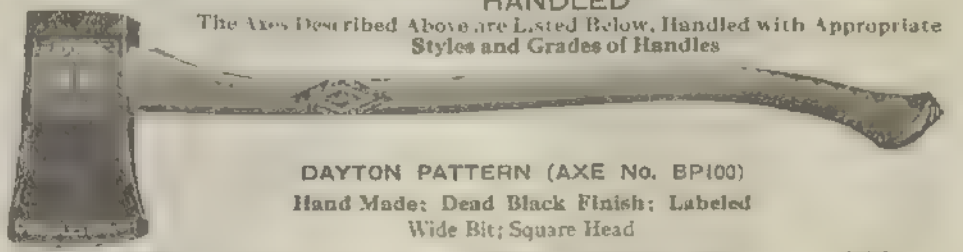
Weights Assorted	3 4	3½ 4½	4 5	4½ 5½
Per Dozen	$22 00	22 50	23 00	23.50

One Dozen of Each Assortment of Weights in a Box, Average Weight per Box 65 lbs

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



DAYTON PATTERN (AXE No. BP100)
Hand Made; Dead Black Finish; Labeled
Wide Bit; Square Head

Kind of Handle	Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
No. BP100AAA—With No. AAA Norleigh Diamond Octagon, Plain End.... Per Dozen		$28.50	$30 00	$30.50	$31.00
No. BP100BB—	"	29 50	30 00	30.50	31.00
No. BP100A—	"	29 00	29 50	30.00	30.50
No. BP100—	"	29 00	29.50	30.00	30.50
No. BP100LN—With No. L Mound City Oval, Plain End, Light Northern	"	29 00	29 50	30.00	30.50
No. BP100C —With No. C Favorite Octagon, Scroll End	"	28.50	29.00	29.50	30 00
No. BP100—	"	28.50	29.00	29.50	30 00
No. BP100N—	"	28.50	29.00	29.50	30.00
No. BP100—	"	28.50	29.00	29.50	30.00
No. BP100— —With No. E Tip Top Octagon, Plain End	"	27.00	27.50	28.00	28.50
No. BP100NF —With No. XE Tip Top Octagon, Straight Pattern	"	27.00	27.50	28.00	28.50
No. BP100— —With No. T Tip Top Oval, Plain End	"	27 00	27 50	28.00	28.50
No. BP100NF—With No. XF Tip Top Oval, Straight Pattern	"	27.00	27.50	28 00	28.50
No. BP100LN—With No. XL Tip Top Oval, Plain End, Light Northern	"	27 00	27 50	28.00	28.50
No. BP100L —With No. L Mound City Oval, Plain End	"	26.00	26.50	27 00	27.50
No. BP100—	"	26 00	26 50	27 00	27.50
No. BP100— Oak	"	26 50	27 00	27 50	28.00
No. BP100LO —With No. LO Live Oak, Plain End, Oak	"	26 50	27 00	27 50	28 00

DIAMOND EDGE Axe Wedge Used in All of Our Handled Axes. Full Description on Page 3.

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

MICHIGAN PATTERN (AXE No. BP200)
Hand Made; Dead Black Finish; Labeled
Wide Bit; Round Head

Kind of Handle	Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
No. BP200AAA—With No. AAA Norleigh Diamond Octagon, Plain End Per Dozen		$29.50	$30 00	30.50	$31.00
No. BP200BB— Norleigh Diamond Oval, Plain End	"	29 50	30 00	30.50	31 00
No. BP200A— leigh Diamond Octagon, Scroll End	"	29.00	29.50	30.00	30 50
No. BP200— leigh Diamond Oval, Scroll End	"	29.00	29.50	30 00	30 50
No. BP200LN— With No. L Mound City Oval, Plain End, Light Northern	"	29.00	29.50	30 00	30
No. BP200—	"	28.50	29.00	29.50	30 00
No. BP200—	"	28 50	29.00	29.50	30 00
No. BP200NF— With No. XL Tip Top Oval, Light Northern	"	28.50	29.00	29.50	30
No. BP200—	"	28 50	29 00	29.50	30.
No. BP200—	"	27 00	27 50	28.00	28.
No. BP200— Plain	"	27 00	27 50	28 00	28.50
No. BP200—	"	27 00	27 50	28 00	28.50
No. BP200NF—	"	27 00	27 50	28 00	28 50
No. BP200TN— Light Northern	"	27 00	27 50	28 00	28 50
No. BP200—	"	26 00	26 50	27 00	27.50
No. BP200—	"	26 00	26 50	27 00	27 50
No. BP200LO— Oak	"	26 50	27 00	27 50	28.00
No. BP200LO —With No. LO Live Oak, Plain End, Oak	"	26 50	27 00	27.50	28

One Dozen of Each Assortment of Weights in a Crate Average Weight per Crate 75 lbs

SINGLE BIT AXES

*BRIDGE

Extra Quality Crucible Steel Bit, Carefully Tempered, Ground and Sharpened, Ready for Use. Soft Steel Body. The Eye is Punched from Solid Steel and will not Stretch nor Break, as Occurs with Axes Having a Rolled or Welded Eye. The Eye is Tapered from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting.

A First Class Axe in Every Respect and we Recommend it as Most Satisfactory for all Purposes.

In Ordering Axes on This Page, Give Numbers and Weights Only

UNHANDLED

Painted Red with Gold Bronzed Border; Labeled; Polished Bit and Head

No. B100—DAYTON PATTERN
Wide Bit, Square Head

Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
Per Dozen	$19.50	20.00	20 50	21.00

No. B200—MICHIGAN PATTERN
Wide Bit, [illegible]

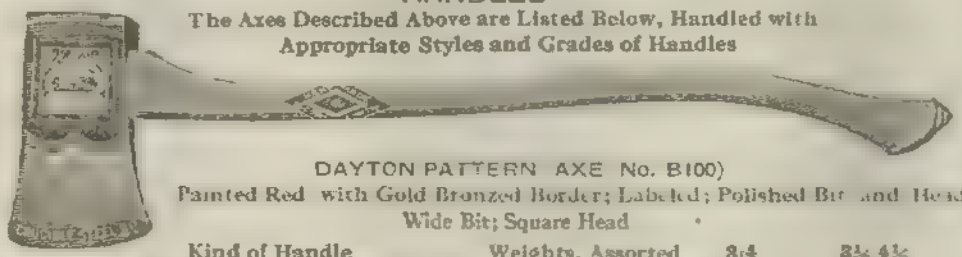
Weights, Assorted	3 4	3½ 4½	4 5
Per Dozen	$19 50	20.00	20.50

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

THE DIAMOND EDGE AXE WEDGE IS USED IN HANDLING THIS AXE



DIAMOND EDGE Axe Wedge is used in Handling This Axe. Full Description on Page 3

DAYTON PATTERN AXE No. B100)
Painted Red with Gold Bronzed Border; Labeled; Polished Bit and Head
Wide Bit; Square Head

	Kind of Handle	Weights, Assorted	3/4	3½ 4½	4/5	4½ 5½
No. B100AAA	With No. AAA Norrogh Diamond Octagon, Plain End		$27 00	$27 50	$28.00	$28.50
No. B100BB	With No. BB Norrogh Diamond Oval, Plain End		27.00	27 50	28.00	28 50
No. B100A	—With No. A Norrogh Diamond Octagon, Scroll End		26 50	27 00	27.50	28 00
No. B100B	—With No. B Norrogh Diamond Oval, Scroll End		26.50	27 00	27.50	28 00
No. B100BN	—With No. BN Norrogh Diamond Oval, Plain End, Light Northern		26 50	27 00	27.50	28 00
No. B100C	—With No. C Favorite Octagon, Scroll End		26.00	26 50	27 00	27 50
No. B100D	—With No. D Favorite Oval, Scroll End		26.00	26 50	27.00	27 50
No. B100DN	—With No. DN Favorite Oval, Plain End, Light Northern		26.00	26 50	27.00	27 50
No. B100FH	—With No. FH Favorite Octagon, Plain End		26 00	26 50	27.00	27 50
No. B100E	—With No. E Tip Top Octagon, Plain End		25.00	25 50	26 00	26 50
No. B100XE	With No. XE [illegible] Pattern		25 00	25.50	26 00	26 50
No. B100F	With No. F Tip Top Oval, Plain End		25 00	25. 0	26 00	26 50
No. B100XF	With No. XF [illegible] Pattern		25 00	25 50	26 00	26 50
No. B100TTN	With No. TTN [illegible], Plain End, Light Northern		25.00	25 50	26 00	26 50
No. B100L	With No. L Norrogh Oval, Plain End		24.00	24.50	25.00	25.50
No. B100PLO	With No. P [illegible] Oval, Plain End		24.00	24.50	25.00	25.50
No. B100FO	—With No. FO Favorite Oval, Scroll End, Oak		25 00	25 50	26 00	26 50
No. B100LO	—With No. LO Favorite Oval, Plain End, Oak		25.00	25. 0	26.00	26.50

THE DIAMOND EDGE AXE WEDGE IS USED IN HANDLING THIS AXE

MICHIGAN PATTERN (AXE No. B200)

Painted Red with Gold Bronzed Border; Labeled; Polished Bit and Head
Wide Bit, Square Head

	Kind of Handle	Weights, Assorted	3/4	3½ 4½	4/5
No. B200AAA	With No. AAA Norrogh Diamond Octagon, Plain End	Per Dozen	$27 00	$27 50	$28.00
No. B200BB	With No. BB Norrogh Diamond Oval, Plain End	"	27 00	27.50	28 00
No. B200A	With No. A Norrogh Diamond Octagon, Scroll End	"	26 50	27 00	27 50
No. B200B	—With No. B Norrogh Diamond Oval, Scroll End	"	26 50	27 00	27 50
No. B200BN	With No. BN Norrogh Diamond Oval, Plain End, Light Northern	"	26 50	27 00	27 50
No. B200C	—With No. C Favorite Octagon, Scroll End	"	26 00	26.50	27 00
No. B200D	With No. D Favorite Oval, Scroll End	"	26 00	26.50	27.00
No. B200DN	With No. DN Favorite Oval, Plain End, Light Northern	"	26 00	26 50	27.00
No. B200FH	—With No. FH Favorite Octagon, Plain End	"	26.00	26.50	27.00
No. B200E	—With No. E Tip Top Octagon, Plain End	"	25.00	25 50	26.00
No. B200XE	With No. XE Tip Top Octagon, Straight Pattern	"	25.00	25.50	26.00
No. B200F	—With No. F Tip Top Oval, Plain End	"	25.00	25.50	26.00
No. B200XF	With No. XF [illegible] Pattern	"	25 00	25 50	26 00
No. B200TTN	With No. TTN Tip Top Oval, Plain End, Light Northern	"	25 00	25 50	26 00
No. B200L	With No. L Norrogh Oval, Plain End		24 00	24 50	25 00
No. B200PLO	With No. P [illegible] Oval, Plain End		24 00	24 50	25 00
No. B200FO	—With No. FO Favorite Oval, Scroll End, Oak		25 00	25 50	26 00
No. B200LO	—With No. LO Favorite Oval, Plain End, Oak		25 00	25 50	26 00

One Dozen of Each Assortment of Weights in a Crate, Average Weight per Crate 75 lbs.

AUTOMOBILE CLOCKS
KEYLESS AUTO CLOCK CO.

STEM WIND—ONE DAY TIME

An attractive Clock with Beveled Crystal and Non-Glaring Silver Reflector.

Each
Uncle Dudley—BN—Black and Nickel Case **$4.80**
One in a Box

KEY WIND—ONE DAY TIME

Off Set Model

Each
No. K1BN—Black and Nickel Case; 2¼ inch Dial **$2.28**
One in a Box

KEY WIND—ONE DAY TIME

Cowl

Each
No. K2N—All Nickel Case; 2¼ inch Dial **$2.92**
One in a Box

Ball Joint

KNOCKABOUT KLOCK

Guaranteed for One Year

Can be adjusted to fit any angle dash by the simple Ball Joint shown herewith, which can be adjusted and tightened to any angle, making it possible to see face of Clock regardless of how far it is from the lamp.

Each
No. KAB—Black Japanned Finish **$4.00**
One in a Box

AUTOMOBILE CLOCKS
KEYLESS AUTO CLOCK CO.

NOJAR

STEM WIND—ONE DAY TIME

For Steering Wheel on Ford or Dodge Cars

Rubber retained Clock for Ford Cars. No Trouble to attach; simply remove nut from top of steering wheel and attach the Clock, which may be adjusted to any Angle as the Rubber Holder is movable on the Metal Base. Is a good timekeeper.

Each
No. FN1—Clock retained in Black Rubber Holder; Weight per Clock ¼ lb. **$4 00**
One in a Box

NOJAR

STEM WIND—ONE DAY TIME

For Dash, Any Make Car

Rubber retained Clock for Dash of any make car. Drill Holes for Screws which are attached permanently to metal Base, embody in Rubber, Tighten Ends, and the Clock is ready for use

Each
No. FD2—Clock retained in Black Rubber Holder; Weight per Clock ¾ lb. **$4 70**
One in a Box

MOTORCYCLE WATCHES

NEBO

Fasten to Handle Bars of Motorcycle or Bicycle.

Polished Solid Brass Case, Holding a Complete Watch; 1 Day Time; Stem Wind and Set; 1½ inch Dial; Height 2¾ inches; Width 2⅞ inches.

Each
No. NB Weight ¼ lb. **$3 50**
One in a Box

FIAT

Polished Solid Brass Case, Holding a Complete One-day Movement Watch; Stem Wind and Set 1½ inch White Dial; Size of Case 2⅛ inches in Diameter.

Each
No. FB Weight 8 ozs. **$3 70**
One in a Box

AUTOMOBILE CLOCKS

KEYLESS AUTO CLOCK CO.

ABRO
KEY WIND
8 Day

An Offset Clock with Best Key-Winding Movement; Thief Proof.

	Each
No. ABN—Black and Nickel Finish; 2¼ inch Dial.. One in a Box	$9 80

NEW HAVEN COWL
KEY WIND
8 Day

Most accurate Key Winding Cowl Clock made.

	Each
Cowl-NH—Black and Nickel Case; 2¼ inch Dial..... One in a Box	$10 50

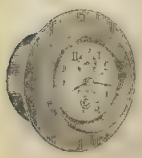
FRISCO COWL
STEM WIND
One Day

Concealed Winding Stem

	Each
Frisco 2—For Dash Board; 2½ inch Dial	$4 20

Attaching Screws and Winding Stem Concealed

	Each
Frisco 1—For Cowl Board; 2½ inch Dial ..... One in a Box	$3 00



DENVER COWL
KEY WIND
8 Day

A Cowl Clock that sits close to Dash; 2¼ inch Dial.

	Each
No. KDN—All Nickel Case	$7 50
No. KDBN—Black and Nickel Case One in a Box	7 50

SHASTA
KEY WIND
8 Day

An Offset Clock of the most approved type. Nickeling plate 2¼ inch Dial.

	Each
No. KSN—All Nickel Case	$7 20
No. KSBN—Black and Nickel Case One in a Box	7 20

AUTOMOBILE CLOCKS

KEYLESS AUTO CLOCK CO.

STEM WIND ONE DAY TIME

Light Solid Brass Case, Polished, with offset Holding a Complete Watch; One Day Time Movement; Stem Wind and Set; 1⅛ in. White Dial; Height 3⅛ inches; Width 2⅞ inches.

	Each
Duane One in a Box. Weight per clock ½ lb.	$3.80

STEM WIND—ONE DAY TIME

Heavy Solid Brass Case, Polished, with offset Holding a Complete Watch; One Day Time; Stem Wind and Set; 1⅛ Inch White Dial; Height 3⅛ inches; Width 2⅞ Inches.

	Each
Devore A Card of Directions for fastening Watch to Dashboard, packed in each box. Weight per clock ½ lb. One in a Box	$4 50

STEM WIND—ONE DAY TIME

This is the very newest Clock for **Steering Wheel on Ford or Dodge Cars or for Handle Bar of any Make Motorcycle.**

Sets on top of steering column. No bolts or Screws needed to attach. Simply raise the nut on steering column, slide in Clock and Screw nut tight.

	Each
No. FIAT— One in a Box	$4 20

STEM WIND ONE DAY TIME

With this Clock it is not necessary to cut Cowl Board.

	Each
No. Panama—Black and Nickel Case One in a Box	$4.20

AUTOMOBILE CLOCKS

SHAPLEIGH HARDWARE CO.

ON TIME

These Clocks are Made of the Best Grade of Materials and are Very Handsome in Appearance and Workmanship; Very Strong and Durable; Built Especially to Withstand the Hard Usage and Vibration of Automobile Travel. Easily Attached to Dash by Three Wood Screws, and Contain very High Grade Thoroughly Tested Movements.

For Use on Straight Dash Board

Fine 30-hour Movement with Second Hand, Cases Finished in Nickel and Black Enamel with Nickel Rim; 2½ inch White Porcelain Dial; Height 3½ inches; Width 3 inches; Heavy Plate Glass Crystal; Weight per Clock 13 oz.

Each

No. 3N —Nickel Plated Case..... **$4.00**
No. 3BN —Black Enamel with Nickel Rim..... **4.00**
One in a Box

Eight Day Movement with Convenient Outside Wind and Set; Case finished in Black Enamel with Nickel Rim; 2½ inch White Porcelain Dial with Second Hand; Height 3½ inches; Width 2¾ inches; Heavy Plate Glass Crystal, Weight per Clock 20 ozs.

Each

No. 4BN—For Cowl Board, Black Enamel with Nickel Rim..... **$6.00**
One in a Box

The Same Eight-Day Movement is Used in This Clock as is Used in the No. 4BN. Furnished in Nickel Plated Finish; Extreme Width 3⅛ inches; 3 inches Deep; 2½ inch Dial with Second Hand; Heavy Plate Glass Crystal; Weight per Clock 15 ozs.

Each

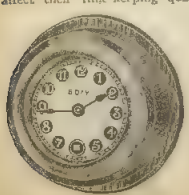
No. 5N—For Dash Board, Nickel Plated Case..... **$6.00**
One in a Box

Each

No. 6N.—30 Hour Movement, otherwise Same as No. 5N; Nickel Plated Case.. **$1.20**
One in a Box

KEYLESS AUTO CLOCK CO.

These Clocks are Dust and Moisture Proof; Vibration does not affect their time-keeping quality



BELMONT
KEY WIND
8 Day

A Cowl Clock that sets Close to Dash

Each

No. Belmont—Black and Nickel Finish; 2¼ inch Dial..... **$6.75**
One in a Box

AUTOMOBILE CLOCKS

KEYLESS AUTO CLOCK CO.

These Clocks are Dust and Moisture Proof; Vibration does not affect their time-keeping quality.

RIM WIND—RIM SET
8 Day

Each

No. K9N—All Nickel; 2¾ inch Dial..... **$15 00**

No. K9BN—Black and Nickel; 2¾ inch Dial..... **15.00**

No. K12BAN—All Nickel; 2¼ inch Dial..... **14.40**

No. K12BBN—Black and Nickel; 2¼ inch Dial..... **14 40**

Model 9 For Cadillac, Hudson, White, Buick, Overland, Cole, Studebaker, Lewis, Austin.

Model 12B—For Reo, Chandler, Paige, Hudson, Hupmobile, Overland, Buick, Dodge, Mercer, Pathfinder.

One in a Box

RIM WIND—RIM SET
8 Day

A very Reliable Timepiece.

Each

No. 7N—All Nickel; 2¾ inch Dial..... **$15 00**

No. 7BN—Black and Nickel; 2¾ inch Dial..... **15 00**

No. 12N—All Nickel; 2¼ inch Dial..... **14 00**

No. 12BN—Black and Nickel; 2¼ inch Dial..... **14 00**
One in a Box.

RIM WIND—RIM SET
8 Day

For Ford Cars; Thief Proof; Rim Wind Only; 2¼ inch Dial.

Each

No. K4RD—Black and Nickel Case..... **$11 00**
One in a Box.

MODEL M & M Jr.
RIM WIND RIM SET
8 Day

Offset Model—Thief-Proof

Each

No. KMN—All Nickel; 2¾ inch Dial..... **$14.30**

No. KMBN—Black and Nickel; 2¾ inch Dial..... **14.30**

No. KMJRN—All Nickel; 2¼ inch Dial..... **13 50**

No KMJRBN—Black and Nickel; 2¼ inch Dial..... **13.50**
One in a Box.

MODEL L
RIM WIND RIM SET
Straight Base

2¼ inch Dial; 2¼ inches high

Each

No. KLN—All Nickel Case..... **$13 20**
No. KLBN—Black and Nickle Case..... **13 20**
One in a Box.

Blowers

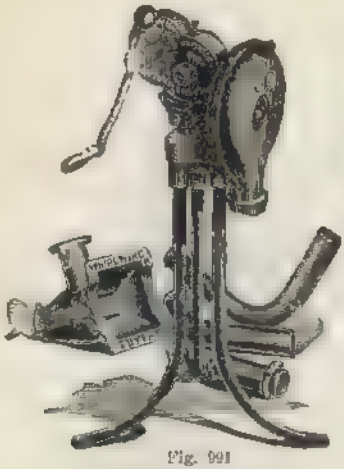


Fig. 991

The Famous 400 Champion Steel Blacksmith Blower

Made with Adjustable Ball Bearings Only

The general construction of the No. 400 blower head used in connection with the above blowers and forges is the finest and highest grade that can be secured by the use of [illegible] tool steel. It is supplied with high speed spiral gearing and adjustable ball bearings made of the finest grade tool steel.

The 400 Champion Steel Blacksmith Blower with the No. 400 Champion Whirlwind Blast with Tinker Heavy Nest Tuyere Iron, fan 12 inches in diameter complete with piping; blower weight, 100 pounds; tuyere iron, 60 pounds ..... each $37 00

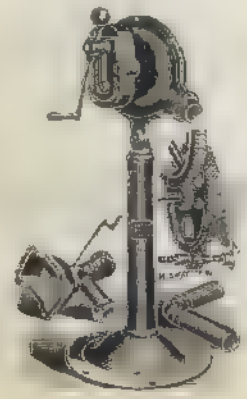
No. 40 Fig. 992

The Champion Lancaster Geared Agricultural Blowers and Forges

No. 40 Champion Lancaster Geared Blower is a well-built, cheap, direct-driven blacksmith blower which has been built to meet the demand for a cheaper blacksmith blower than the famous 400 [illegible] High Speed Spiral Geared Blower or the No. 70 Midway Spiral-Geared Blower.

This blower, as will be seen by illustration, is supplied with the Champion Adjustable Nozzle Tuyere Iron. It is smooth-running crank turns either way to make the blast, and goes out with our recommendation.

No. 4 Champion Lancaster Geared Direct Drive Blacksmith Blower with fan 12 inches in diameter, tuyere iron and piping complete; weight, 110 pounds ..... each $20 00



No. 70 Fig. 993

The Champion Midway Spiral Geared Blacksmith Blower

No. 70 Champion Midway Spiral Geared Blacksmith Blower is built with Midway Cut Cross Spiral gearing and ball bearings, driving the blacksmith blower. The Champion Midway Spiral Gearing is adaptable to cross-section and will last a lifetime under ordinary conditions and practices. The gearing runs in a dust-proof casing, the crank turns in either direction to make the blast.

No. 70 Champion Midway Spiral Geared Blacksmith Blower fan 12 inches in diameter, supplied with 50 pounds capacity best ball tuyere iron, blower and piping weight 115 pounds; tuyere iron, 50 pounds ..... each $30 00

No. 71 Champion Midway Spiral Geared Blacksmith Forge with cast iron hearth and hood 30x30 inches, 2x45 tuyere and heavy best tuyere iron, height, 3 inches, fan, 12 inches in diameter, without water tank, weight 300 pounds ..... each $50 00

With water tank, weight 340 pounds. ..... each $5 00

Blowers

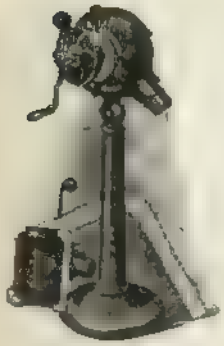


Fig. 994

Royal Blower

The successful blower. Crank turns forward or backward. Noiseless and easy to operate.

Blower, 12 inches; weight, 135 pounds; height, 47 inches.

Gear case is oil-tight and dustproof. Gears run in a continuous bath of oil. Gears are flat and straight cut, made of special material. No spiral or worm gears. A powerful blast. Heating after blast. Fire pot is 9½ inches, inside.

List price, complete, as shown	$28 00
List price, without tuyere	24 50
List price, without hood, stand and tuyere	17 50

No. 2E Electric Blower

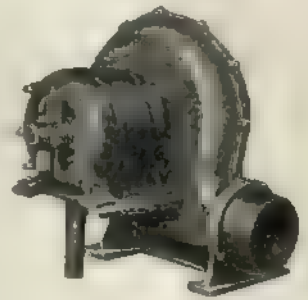


Fig. 995

Height 15 inches; net weight 60 pounds; diameter of outlet, 4¾ inches. No. of forge fires, 1 to 3.

A well-built blower with powerful, constant speed induction type, motor with capacity to handle from one to three forge fires. Fully guaranteed. When ordering electric driven forges or blowers, furnish us with the following information:

1. Whether current is alternating or direct.

2. If alternating current, give cycles and whether 110 or 220 V. Our standard motors are designed for 60 cycles. If direct current, voltage is all that is required.

List price . . . $75 00

Canedy-Otto No. 5E Electric Blower

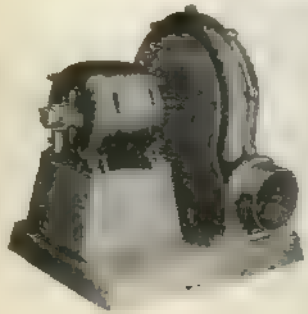


Fig. 996

Height, 15 inches; diameter of outlet, 5¼ inches; weight, 20 pounds; diameter of outlet, 4¾ inches; number of forge fires, 5.

The No. 5-E Electric Blower is equipped with a high-grade, constant speed, induction type motor, capable of handling from one to five forge fires. It is mounted on a substantial pressed steel base with turned, handsome appearance and a high-class machine in every particular. Fully guaranteed built for service.

When ordering electric-driven forges or blowers, furnish us with the following information:

1—Whether current is alternating or direct.

2—If alternating current, find out cycles or alternations, and state whether 110 or 220 volts.

3—Our standard motors are designed for 60 cycles, or 7,200 alternations.

4—If direct current, the voltage is all the information needed.

List price $96 00

Blowers

The Champion Variable Speed Electric Steel Pressure Blacksmith Blower

The Blower with the Big Motor

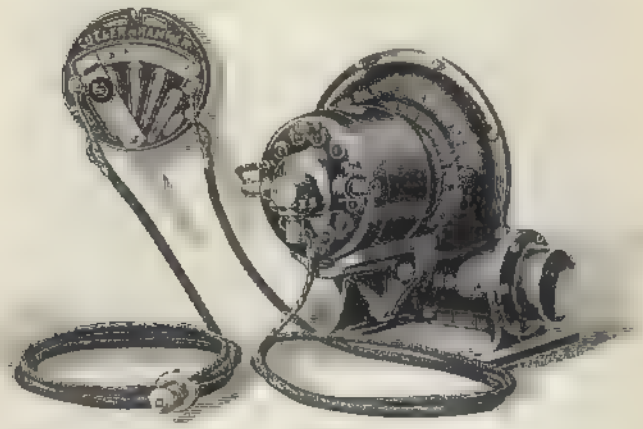


Fig. 807

No. 50 for Regular Blacksmith Fire with Universal Motor, Steel Pressure Fan Case and Detached Rheostat

No. 50 Champion Electric Blower is designed to meet the requirements for blacksmith heating purposes from the smallest up to 4 inch pipe motor. The operator of the blast is given by means of different changes of speed secured by a series of, three notches and lever on the detached rheostat.

No. 50 Champion One-fire Variable Speed Electric Blacksmith Blower is furnished with a Universal Motor wound for both alternating and direct current, either 110 or 220 volts.

The motor has a [illegible] Motor is built with a hammered steel shaft, phosphor bronze bearings self-aligning, and is provided with a worm and worm gear of the highest grade cut steel, and is covered wire of the best insulation.

Is furnished with attaching cord and plug to fit any light socket, therefore requires no electrical expense to connect the blower up to the current.

Before ordering, ask your electric current plant for the voltage only.

No. 50 Champion One-fire Variable Speed Electric Steel Pressure Blacksmith Blower with Universal Motor, for both direct and alternating current, either 110 or 220 volts, with detached rheostat for variable speed, with attachment cord and plug to fit any light socket, therefore requires no electrical expense, and steel pressure fan case for all kinds of general blacksmith work. Weight, 55 lbs. $40 00

No. 51 Champion One-fire Variable Speed Electric Blacksmith Blower with Universal Motor, for both direct and alternating current, either 110 or 220 volts, with detached rheostat for variable speeds for extra heavy fire. Weight, 60 pounds [illegible] $60 00

CURTIS GARAGE AIR COMPRESSORS

"CURTIS AIR—FREE FROM OIL"

STYLE "Z" STATIONARY MOTOR DRIVEN OUTFIT

Price includes compressor, tank and motor of size specified, piping between compressor and tank, including dash pot check valve, air gauge, pop safety valve and drain cock, single leather drive belt, mounted on oak base, as illustrated.

PRICE STYLE "Z", BELTED ONLY

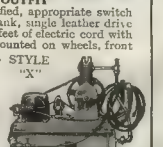
Style and Number	Size Com.	Motor, H.P.	Size Tank In.	Without Motor, no Belt nor Motor Pulley		Complete with Motor				Extra for Auto'tic Starting and Stopping Device
				Price	Wt.	D. C. 110-220	A. C. 60 cyc. Sg. Ph. 110-220	A. C. 60 cyc. 2or3Ph. 110-220	Wt.	
Z-1a	1½x2	½	12x36	$ 77.40	155	$144.00	$172.80	$172.80	265	$ 40 00
★Z-2a	2½x2½	¾	12x36	86.40	185	194.40	212.40	194.40	315	40.00
Z-3a	2½x3	1	14x48	99.00	230	216.00	271.80	221.40	440	75.00
★Z-4a	3 x3½	1	14x48	102.60	305	252.90	282.60	232.20	490	75.00
Z-4b	3 x3½	1	16x60	115.20	483	264.60	295.20	244.80	570	75.00
Z-5	4x3½	3	16x60	199.20	645	488.00	507.60	361.80	920	90.00
Z-5a	4x4½	3	20x50	187.20	748	486.00	525.60	379.80	1020	90.00

STYLE "X" PORTABLE MOTOR DRIVEN OUTFIT

Outfit includes compressor, motor and tank of size specified, appropriate switch or connection for motor, piping between compressor and tank, single leather drive belt or cut fly wheel gear and raw hide pinion as desired; 20 feet of electric cord with plug; 15 feet of oil-proof air hose with tire chuck; outfit mounted on wheels, front pair being Universal caster type; all as illustrated opposite.

PRICE STYLE "X", BELTED OR GEARED

Style and Size Number	Size Com.	Size Tank in.	Motor, H.P.	No Motor nor Belt no Pinion	Complete with Motor			Wt.	Extra for Auto'tic Starting and Stopping Device
				Price	D. C. 110-220	A. C. 60 cyc. Sg. Ph. 110-220	A. C. 60 cyc. 2 or 3 Ph. 110-220		
★X-1a	1½x2	12x36	½	$118.80	$190.80	$210 60	$210 60	315	$ 40 00
★X-2a	2½x2½	12x36	¾	131.40	232 .20	250 20	232 20	385	40 00
X-3a	2½x3	12x36	1	140 40	248. 40	264 20	271.80	395	75 00
X 4	3 x3½	14x48	1½	147 60	306 00	336 60	240 .30	535	75 00
X 5	4x4½	14x48	3	264 60	513 00	652. 60	430.20	1105	90 00



STYLE "V" STATIONARY MOTOR DRIVEN OUTFIT

Outfit includes compressor, motor and tank of size specified; piping between compressor and tank with dash pot check valve, single leather drive belt, or cut fly wheel gear and raw hide pinion as desired. 15 feet of oil proof air hose with tire chuck. Outfit mounted on hardwood skids, all as illustrated opposite.

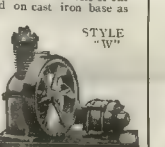
Style and No	Size Com.	Motor, H.P.	Size Tank. In.	No Motor, No Starter, No Pinion, nor Belt.		Complete, with Motor.			Wt.	Ex. for Auto'tic Starting and Stop'ng Device
				Price	Wt.	D. C. 110-220	A. C. 60 Cyc Sg. Ph. 110-220	A. C. 60 Cyc 2or3 Ph. 110-220		
★V-1a	1½x2	½	12x36	$103.80	240	$175.80	$195.60	$195.60	315	$40.00
★V-2a	2½x2½	¾	12x36	116.40	260	217.20	235.20	217.20	385	40.00
V-3a	2½x3	1	12x36	120.40	270	228.40	234.20	251.80	395	75.00
V-4	3 x3½	1½	12x36	122.60	450	281.60	311.60	281.20	585	75.00
V-5	4½x4½	3	14x48	234.60	785	488.00	525.60	400.20	1105	90.00

STYLE "W" STATIONARY MOTOR DRIVEN OUTFIT

Outfit includes compressor and motor of size listed, single leather drive belt or cut fly wheel gear and raw hide pinion as desired; all mounted on cast iron base as illustrated opposite; no tank.

PRICE STYLE "W", BELTED OR GEARED

Style and Number	Size Com.	Motor, H.P.	No Motor Belt, Pinion, nor Motor Pulley		Complete with Motor			Wt.	Extra for Auto'tic Starting and Stop ping Device
			Price	Wt.	D. C. 110-220	A. C. 60 cyc. Sg. Ph. 110-220	A. C. 60 cyc. 2 or 3 Ph. 110-220		
W-1	1½x2	½	$ 57.60	125	$120.60	$140.40	$140.40	200	$ 40 00
W-2	2½x2½	¾	65.40	145	171.00	189.00	189.00	275	40 00
W-3	2½x3	1	79.20	180	189.00	243.00	210.60	340	75 00
★W-4	3 x3½	1½	86.40	235	244.80	278.40	225.00	440	75.00
W-5	4½x4½	3	153 00	566	415.80	455.40	336.60	875	90.00



★ Popular sized garage outfit.

ALL PRICES SUBJECT TO DISCOUNT

CURTIS GARAGE AIR COMPRESSORS

"CURTIS AIR—FREE FROM OIL."

PURE AIR for your customer means good service, because oil ruins tires, and AIR FREE FROM OIL means fewer blowouts—fewer punctures—greater tire mileage—less repairs; saves them many dollars up-keep every month.

A Few Curtis Exclusive Features

1—Controlled-splash self-oiling system. No excess oil in cylinder, no external leakage nor waste of oil, no oil gets into the tires. Enclosed crankcase keeps out dust.
2—Uses about one-tenth of the oil used by any competing machine; saving in oil alone soon pays price of machine.
3—High and low level oil filling gauge, so you can tell at a glance the amount of oil in the crankcase.
4—Fan flywheel cools cylinder; increases capacity.
5—Inspectable valves, light weight; large area.
6—Valves cannot drop into cylinder and wreck machine.
7—Hand unloader permits starting compressor against full tank pressure without burning out motor, blowing fuses or burning or jumping of belt.
8—Drop forged crankshaft. Adjustable, renewable, non-cutting die cast bearings.
9—Head removable without breaking or bending any pipe connection or pipe fittings; only one gasket.

★ **The No. 4 is the most popular size for garage service, and the No. 2 the next most popular.**

Size	1	★2	3	★4	5
Bore and Stroke	1¾x2	2½x2½	2½x3	3x3½	4½x4½
Minimum Speed	500	400	350	300	250
Cu. Ft. Displacement	1.2	1.8	2.99	4.32	10 4
H. P. at 100 lbs	.24	.36	.60	.87	2 09
H. P. at 200 lbs	..	.47	.78	1.14	2.75
Usual Size Motor, H. P.	¼	½	¾	1	3
Maximum Speed	700	600	550	500	400
Cu. Ft. Displacement	1 68	2 70	4 7	7.29	16 5
H. P. at 100 lbs	.34	.54	.95	1.45	3 34
Size Pulley	9x1¼	11x2½	12x2½	14x2½	22x4½
Shipping Weight	50	80	100	150	405
With Tight Pulley Only	$34.20	$37.80	$47.70	$59.40	$108.00
With Tight and Loose Pulley	37.80	41.40	51.30	64.80	126.00
Air Pres. Unloader instead of Hand Unloader, add extra		16.20	16.20	16.20	19.80

STYLE "S" OUTFITS AND SEPARATE TANKS

The Style "S" Outfits include the air compressor with hand unloader and tight pulley only, 150 lb. steel pressure tank, piping between compressor and tank, outlet cock and 20 ft. of air hose with tire chuck, all as illustrated.

Prices on tanks only include air gauge, pop safety valve and drain cock.

PRICE "S" OUTFIT AS ABOVE — PRICE TANKS ONLY AS ABOVE

Style and No.	Size of Compressor	Size of Pipe	Size of Tank	Cap. in Gal.	Price Complete Outfit as Above	EXTRAS: Loose Pulley	Shipping Wt. Lbs.	Size of Tank	EXTRAS: For 150 lbs. Working Air Pres. Wt.	EXTRAS: For 150 lbs. Working Air Pres. List	EXTRAS: Piping bet. Comp. and Tank, Price	EXTRAS: For Outlet Cock, Extra Price	EXTRAS: Piping From Tank to Comp'r for Unloader
S-1	1¾x2	¼	12x36	17 2	$70 60	$3 60	75	12x36	60	$23 40	$ 3 60	$ 2 70	$ 3.60
S-2	2½x2½	¼	12x36	17 2	82 30	3.60	120	14x48	77	27.00	5.40	3.15	3 60
S-3	2½x3	¾	14x48	32 1	109 20	3 60	150	16x50	117	39 60	5.40	3 15	3 60
★S-4	3 x3½	¾	16x50	52 5	117 90	3 60	270	20x60	176	57.60	7.20	5 40	3 60
S-5	4½x4½	1¼	20x60	82 5	201 00	18.00	565						

Style Y-1-A Portable Outfit illustrated opposite includes 1¾"x2" compressor, fan fly wheel with internal gear, ¼ H. P. Motor either A. C. or D. C. as desired, expansion chamber with piping from same to compressor, combination snap switch and drain cock, 20' of electric cord and plug, 15' of best grade pump tubing with tire chuck and air gauge, combination push bar handle and hose rack all mounted on hardwood base running on large diameter wheels. Price $130.00

Y-1-B Stationary Outfit, same as above, but no push bar handle, no electric cord, nor wheels, but includes compressor, motor, expansion chamber, switch, hose and base as above. Price $125.00

★ **Popular sizes garage outfits.**

ALL PRICES SUBJECT TO DISCOUNT

GARAGE.

TWO-CYLINDER BELT DRIVEN AIR COMPRESSOR.

Requires ½ H. P. for operation, delivers 3 cubic feet free air per minute at 400 R. P. M. and 175 lbs. pressure. Tested to 300 lbs. Adjustable safety valve on each cylinder. Net weight, 38 lbs.; shipping weight, 46 lbs.; height, 18 inches; floor space, 6½x10 inches.

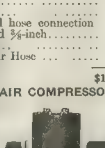
	Each
No. 102—Compressor; with 9-inch tight pulley only	$43.50
No. 102—Compressor; with 9-inch T. & L. pulleys	48.50
No. 102—Compressor; with 14-inch tight pulley only	45.00
No. 102—Compressor; with 9-inch pulley and clutch (as illustrated)	53.00

BELT DRIVEN GARAGE OUTFIT No. 1.

For Garages Housing up to 40 Cars and Large Vulcanizing Shops.

	Each
1 No. 102 Belt Driven Air Compressor, 9-inch tight and loose pulley	$48.50
1 50-Gallon 16x60-inch Galvanized Air Tank for 150 lbs. working pressure	38.00
1 Model "B" Air Gauge	3.00
1 No. 70 Horizontal Check Valve, ¼-inch	5.00
1 No. 72 Safety Valve for Air Tank	2.75
1 No. 83 ¼-inch Needle Valve	1.80
1 No. 83 ¼-inch Needle Valve	1.80
1 No. 82 ⅜-inch Needle Valve with swivel hose connection	2.10
2 Specially Ground Brass Unions, ¼ and ⅜-inch	1.50
1 Automatic Tire Connection	1.50
1 25-foot Drop Line ⅜-inch Resistoil Air Hose	4.50
	$110.45

TWO-CYLINDER BELT DRIVEN AIR COMPRESSOR.



This compressor has two cylinders 3x3 inches, is water cooled; rigid construction throughout. A cast iron sub-base is regularly supplied for mounting the machine, so that it is complete and ready for installation. Valves can be readily and inexpensively renewed when worn out.

We recommend this compressor for garages housing up to 150 cars and having more than one floor, requiring a large number of service lines and with tanks up to 120-gallon capacity. Capacity, 9½ cubic feet free air per minute at 400 R. P. M. Pressures up to 200 lbs. and requires 2 H. P. for operation. Height, 25 inches. Floor space, 8¾x15 inches. Net weight, 200 lbs. with T. & L. pulleys. Shipping weight, 260 lbs.

	Each
No. 17 Compressor; with one 16-inch tight pulley and flywheel	$127.00
No. 17 Compressor; with 16-inch T. & L. pulleys and flywheel	135.00

BELT DRIVEN GARAGE OUTFIT No. 4.

For Garages and Service Stations Housing 75 to 100 Cars.

	Each
1 No. 17 Belt Driven Compressor, 16-inch T. & L. pulleys and flywheel	$135.00
1 80-Gallon 18x72-inch Galvanized Air Tank for 150 lbs. working pressure	70.00
1 Model "B" Air Gauge	3.00
1 No. 70 Horizontal Check Valve, ½-inch	6.00
1 No. 72 Safety Valve for Air Tank	2.75
1 No. 84 ½-inch Needle Valve	3.00
1 No. 83 ¼-inch Needle Valve	1.80
1 No. 82 ⅜-inch Needle Valve with swivel hose connection	2.10
2 Specially Ground Brass Unions, ½ and ⅜-inch	1.85
1 Automatic Tire Connection	1.50
1 25-foot Drop Line ⅜-inch Resistoil Air Hose	4.50
	$231.50

MOTOR DRIVEN.

The compressor has a capacity of 2½ cubic feet of free air per minute, has an adjustable safety valve on each cylinder and is driven by a ½ H. P. motor, by a no close cloth pinion gear. The motor will readily start the compressor against 130 lbs. and drive it up to 175 lbs.

Makes a most convenient installation when used in connection with our Model "M" Automatic Controller. Operation from lighting circuit if desirable.

Height, 16½ inches. Floor space, 18½x11 inches. Net weight, 140 lbs. Shipping weight, 170 lbs.

	Each
No. 42—Compressor; with 110-220 V. 60 cycle A. C. 1 phase motor	$170.00
No. 42—Compressor; with 110-220 V. 25 cycle 1 phase A. C motor	190.00
No. 42—Compressor; with 110 or 220 V. direct current motor	155.00
No. 42—Compressor; with 32 V. direct current motor	160.00

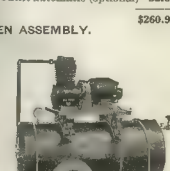
A. C. motors of other frequency at additional charge.

MOTOR DRIVEN GARAGE OUTFIT No. 6.

For Garages Housing 75 Cars, When Model "M" Controller is Used, and up to 50 Cars Without Model "M".

	Each
1 No. 42 Motor Driven Compressor, 110 or 220 V. 60 cycles A. C.	$170.00
1 40-Gallon 16x48-inch Galvanized Air Tank for 150 lbs. working pressure	35.00
1 Model "B" Air Gauge	3.00
1 No. 75 Horizontal Check Valve, ¾-inch	5.00
1 No. 72 Check Valve for Air Tank	2.75
1 No. 83 ¼-inch Needle Valve	1.80
1 No. 83 ¼-inch Needle Valve	1.80
1 No. 82 ⅜-inch Needle Valve with swivel hose connection	2.10
2 Specially Ground Brass Unions, ¾ and ¾-inch	1.50
1 Automatic Tire Connection	1.50
1 25-foot Drop Line ⅜-inch Resistoil Air Hose	4.50
	$228.95
1 Model "M" Controller to make outfit automatic (optional)	32.00
	$260.95

MOTOR DRIVEN ASSEMBLY.



The compressor is the standard No. 102 with capacity of 2½ cubic feet free air per minute direct geared to ½ H. P. motor.

The cloth driven pinion is employed with cut cast iron spur gear. The power plant is mounted on a substantial iron base which surmounts a 32-gallon Brunner air tank recommended for 150 lbs. working pressure. Construction is entirely of metal, there being no wooden parts which might warp or crack and throw the power plant out of alignment. Equipment as illustrated is furnished and this machine is ready for use when uncrated. Hose may be attached to fittings as shown or pipe line may be extended to any part of the building. In connection with automatic controller, this machine is recommended for garages housing up to 50 cars.

Height, 24 inches. Floor space, 18x36 inches. Net weight, 310 lbs. Shipping weight, 385 lbs.

	Each
No. 542—Outfit; with 1 phase 60 cycle 110-220 V., A. C. motor	$225.00
No. 542—Outfit; with 110-220 V. 25 cycle 1 phase, A. C. motor	245.00
No. 542—Outfit; with 110 or 220 V. direct current motor	210.00
No. 542—Outfit; with 32 V., D. C. motor	215.00

A. C. motors of other frequency at additional charge.

LIQUID PISTOLS

DAISY SINGLE SHOT

Per Dozen

No. DWP—Made in exact replica of Colt Automatic Pistol; Made of Blue Stamped Steel; Durable and Attractive, Length 5½ inches; Wt. Per Dozen 5 lbs. .. $4.50

One in a Box

DAISY REPEATER

Per Dozen

No. DR9—5 Shots, Made in Exact Apperance of Colts Automatic Pistol, of Blue Stamped Steel, Durable and Attractive; Length 5½ inches, Weight per Dozen 5 lbs. $9 00

One in a Box

Per Dozen

No. 53—Nickel Plated and Polished Barrel; Rubber Bulb to Contain Liquid, Forms the Grip; Operated by Squeezing the Grip: Length 4½ in., Wt. per Dozen 2 lbs..... $4 50

One in a Box; One Dozen in a Carton

HAMILTON RIFLES

TAKE DOWN

16 inch Bronze Barrel with Steel Jacket; Tapered; Hammer Action with Automatic Ejector which Ejects Empty Shell when Rifle is Opened; Outer Jacket of Barrel and all Working Parts are of Steel, Having a Blue Black Gun Finish; Fitted with Knife Blade Front and Open Rear Adjustable Sights; Length Over All 30 inches.

MODEL 27

Each

No. 1127—22 Caliber; Genuine Black Walnut Flat Stock and Fore Arm; Straight Grip with Combination Blued Steel Trigger, Guard and Pistol Grip; Combination Revolving Breech and Lock; Shoots 22 SRF add 22 LRF Cartridges; Weight 2½ lbs.. $3.50

One in a Box

MODEL 35 BOY SCOUT—MILITARY TYPE

This Rifle while Primarily Intended for the use of Boy Scouts, will be found Very Serviceable for Rabbit Shooting and Small Game in General.

Equipped with ⅞ inch Russet Sling Strap and Detachable Blunt Edge Gunmetal Finish Steel Bayonet with Steel Button at End to Prevent Injury.

Each

No. 1135—22 Caliber; Genuine Black Walnut Flat Stock and Forearm; Straight Grip with Combination Blued Steel Trigger Guard and Pistol Grip; Combination Revolving Breech and Lock; Shoots 22 SRF and 22 LRF Cartridges; Weight 3 lbs..... $4 00

One in a Box

STERLING AIR RIFLES

Fully Guaranteed

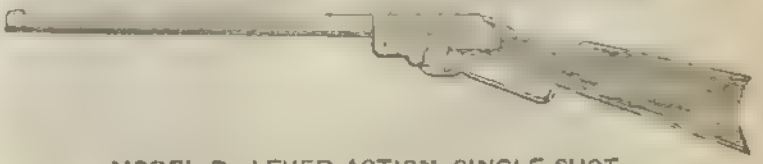
These Air Rifles are Made of the Best Materials and Involve Only the Newest and Most Simplest Mechanical Construction. They Cannot be Discharged Until the Lever Has Been Returned to the Gun Stock as Shown in Illustration Below. The Safety is Automatic and No Safety Catch is Needed or Used. They are Provided with an Inner and Separate Compression Chamber Reinforced to withstand Extra Strong Shooting [illegible] All Working Parts are Enclosed in this Compression Chamber. The Hinge Pin [illegible] Steel, Case Hardened, and Will Not Break or Wear. No Cast Iron Used; Flat Wire Springs that will not Set or Break are Used; and are Fully Tested Before Assembled in Guns. Full Directions for Using Sent with each Rifle.

MODEL C—SPECIAL SINGLE SHOT; BREAK DOWN ACTION

Shoots Air Rifle Shot; Substantial Construction; Shoots Strong and Accurate; Walnut Stock Rigidly Attached to Frame; Reinforced Barrel, Highly Nickel Plated.

Per Dozen

No. C—Single Shot; Length 29 inches; Weight per Dozen about 20 lbs. One Dozen in a Case..... $12 00



MODEL D—LEVER ACTION, SINGLE SHOT

Shoots Air Rifle Shot; Accurate and Strong; Walnut Stock, Dull Finish; Gun Metal Finish, Round Tapering Barrel.

Per Dozen

No. D—Single Shot; Length 31½ inches; Weight per Dozen about 30 lbs. One Dozen in a Case..... $24.00

MODEL E—LEVER ACTION, REPEATER

Magazine Holds 350 Air Rifle Shot; Lever Action; Smooth and Perfect; Automatic Shot Retainer; Prevents Shot from Rolling out of Barrel. Walnut Stock, Dull Finish; Gun Metal Finish, Round Tapering Barrel.

Per Dozen

No. E—350 Shot; Length 31½ inches; Weight per Dozen about 32 lbs. One Dozen in a Case..... $33.00

MODEL F—LEVER ACTION, REPEATER

Magazine Holds 500 Air Rifle Shot, Loads Automatically, Action of Lever Easy and Smooth, Automatic Shot Retainer, Prevents Shot from Rolling out of Barrel.

Black Walnut Stock, Natural Finish; Gun Metal Finish, Octagonal Tapering Barrel and Frame.

Per Dozen

No. F—500 Shot; Length 33 inches; Weight per Dozen about 33 lbs. One Dozen in a Case..... $39.60

MODEL G—LEVER ACTION, REPEATER

Magazine Holds 1,000 Air Rifle Shot, Loads Automatically by Operating Lever; Action of Lever Easy and Smooth; Automatic Shot Retainer; Prevents Shot from Rolling out of Barrel.

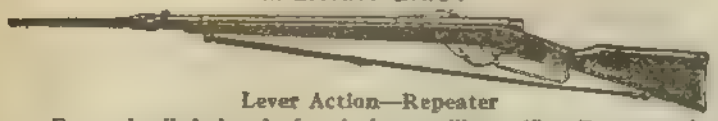
Black Walnut Stock, Natural Finish, Gun Metal Finish; Octagonal Tapering Barrel and Frame.

Per Dozen

No. G—1,000 Shot, Length 35 inches; Weight per Dozen about 35 lbs. One Dozen in a Case..... $48.00

AIR RIFLES

MILITARY DAISY



Lever Action—Repeater

Every detail designed after the latest military rifle a Repeater; has all the hard-hitting, accurate Daisy qualities—just the gun for drill as well as for target shooting.

While this Air Rifle shoots strong and accurately, it avoids the danger of ordinary fire-arms. The detachable bayonet is rubber tipped so as to render it harmless.

This rifle is a 50-shot repeater and has a forced feed so that it can be fired in any direction without losing a shot.

Like all Daisies, this military type is as carefully designed, made, and finished as a man's rifle. It has a beautiful Walnut finished stock. All metal parts are finished in gun blue. The rear sights are open and adjustable. The front sight is of the knife type. The rifle comes complete with sling and swivel.

Per Dozen

No. 40—Shoots Air Rifle Shot only; Weight 3¾ lbs.; Length Over All 45 inches..... **$66 00**

One in a Box; Six in a Case; Case weighs 30 lbs.

A GENUINE PUMP ACTION REPEATER—TAKE DOWN MODEL

This is the very Latest Improvement in Air Rifles and for Appearance and Effectiveness this **New Pump Action Daisy** compares favorably with the Finest of Small Arms on the Market.

A Simple "Take Down" System permits the Rifle being taken down and put together Easily and Quickly.

This Rifle is very Effective for General Air Rifle use, being very Accurate and Powerful up to 25 or 50 Feet; Also suitable for use in the House, Club or for Target Practice.

The Loading Action is Automatic and Operates by pulling the Slide toward the Stock; The Smoothest and Easiest Action ever Invented; Fires Rapidly from the Shoulder, the Magazine having a Forced Feed.

Barrel—Made of Good Grade Steel; Non-Rusting Gun Blue; Adjustable Front and Rear Sights.

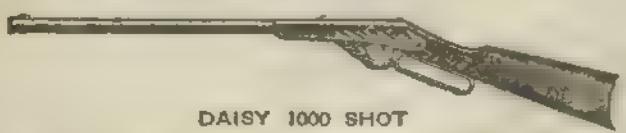
Frame—Pressed Steel; Non-Rustable Gun Blue Finish.

Stock—Genuine Black Walnut, Hand Polished.

Per Dozen

No. 25—Shoots Air Rifle Shot Only; Lentgh Over All 38 inches; Weight 3¼ lbs..... **$72 00**

Half Dozen in a Case; Weight per Case 25 lbs.



DAISY 1000 SHOT

Winchester Lever Action, Automatic Repeater. Shoots 1000 Times without Reloading. All working Parts Made of Steel and Brass; all Parts Interchangeable. The Most Gun Like Air Rifle on the Market. Shoots Accurately and with Great Force.

Barrel—Polished Steel, Nickel Plated, Length 23 inches.

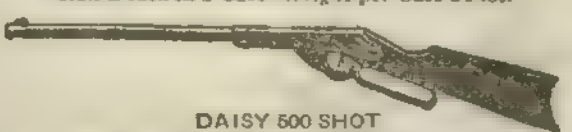
Stock—Black Walnut, Oil Finished and Polished.

Frame—Pressed Steel, Nickel Plated; Malleable Iron Lever and Trigger, Nickeled. Open Front and Rear Sights.

Per Dozen

No. 1000—Shoots Air Rifle Shot Only; Weight 3 lbs.; Length Over All 36 inches..... **$48 00**

Half Dozen in a Case; Weight per Case 24 lbs.



DAISY 500 SHOT

Lever Action, Automatic Repeater, Shoots 500 Times without Reloading. All Working Parts Made of Steel and Brass; All Parts Interchangeable. A Strictly High Grade Air Rifle and Fully Guaranteed.

Barrel—Polished Steel, Nickel Plated, Length 20¼ inches.

Stock—Black Walnut, Oil Finished and Polished.

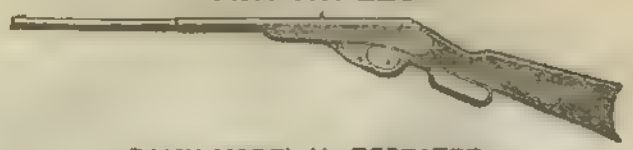
Frame—Pressed Steel, Nickel Plated; Malleable Iron Lever and Trigger, Nickeled. Open Front and Rear Sights.

Per Dozen

No. 500—Shoots Air Rifle Shot Only; Weight 2¾ lbs.; Length Over All 32 inches..... **$36.00**

Half Dozen in a Case; Weight per Case 22 lbs.

AIR RIFLES



DAISY MODEL H—REPEATER

Lever Action, Automatic Repeater; 500 Shots without Reloading

All Working Parts made of Steel and Brass; all Parts Interchangeable

A very Sturdy Gun-like Air Rifle. Shoots accurately and with great Force

Barrel—One Piece Steel; Nickel Plated; Length 21 inches.

Stock—Black Walnut; Oil Finished and Polished.

Frame—Pressed Steel; Nickel Plated; Malleable Iron Lever and Trigger; Nickeled; Open Front and Peep Rear Sights.

Per Dozen

No. 11—Shoots Air Rifle Shot Only; Length over all 31½ inches; Weight 1¾ lbs..... **$30.00**

One Dozen in a Case; Weight per Case 30 lbs.

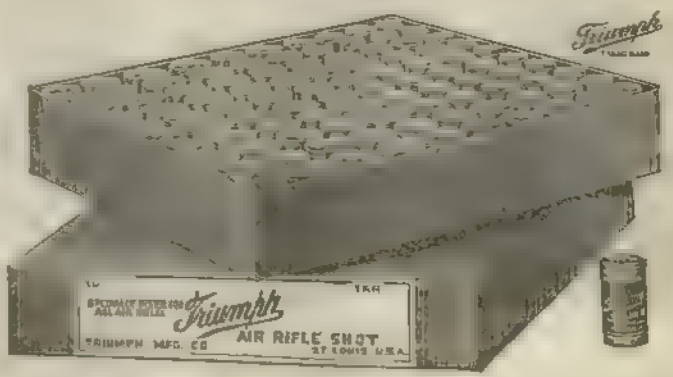
AIR RIFLE DARTS

Per Dozen

No. ARD—Sharp Steel Points, Assorted Colors, Red, Yellow and Blue Feather Guid..... **$0 40**

One Dozen in an Envelope; Weight per Dozen 3½ oz.

AIR RIFLE SHOT



***TRIUMPH**

Another Handy Retailers Package

"ORIGINATED BY US"

Per Case

No. TAR1—This Shot is Specially Sized; Will Fit All Air Rifles; One Hundred Small Wood Boxes in a Case; Size of Case 12x12x2 inches; Weight per Case 28 lbs..... **$10 50**

Note.—We Will Not Break Cases

BOWS AND ARROWS

SIOUX CHIEF

Per Dozen

No. KBA Bow and Hand Piece of Polished Nickeled Steel, 20 in. Long; Polished Hardwood Arrow 15 in. Long with Rubber Tip; Weight complete 12 ozs. each..... **$5 00**

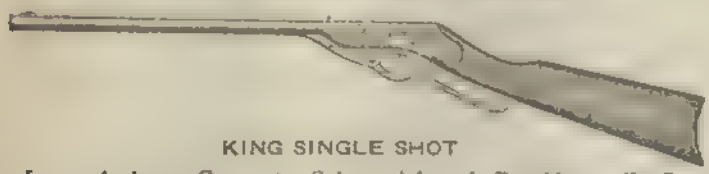
One Dozen in a Carton

AIR RIFLES

KING JUNIOR SINGLE SHOT

Designed Especially for the Younger Boys not Big Enough to Use the Larger or Heavier Air Rifles.
Barrel—Steel, Nickel Plated; Length 16½ inches.
Stock—Hardwood, Ebony Finish.

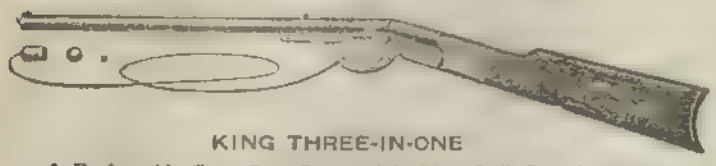
Per Dozen
No. K0—Shoots Air Rifle Shot Only; Weight 1 lb. 2 oz.; Length Over All 29 inches..... **$18 00**
One Dozen in a Case, Weight per Case 20 Lbs.



KING SINGLE SHOT

Lever Action; Compact, Substantial and Durable; all Parts Interchangeabl
Barrel—Steel, Nickel Plated; Length 18 in.; Knife Blade Front and Peep Rear Sights.
Stock—Black Walnut; Varnished.
Frame—Pressed Steel, Nickel Plated; Malleable Iron Lever and Trigger.

Per Dozen
No. K21—Shoots Air Rifle Shot and Darts; Weight 1¾ lbs.; Length over all 31 inches..... **$33.00**
One Dozen in a Case, Weight per Case 25 lbs.



KING THREE-IN-ONE

A Perfect Air Gun, Pop Gun and Rubber Ball Gun Combined. It Shoots BB Shot with Accuracy—a Large Cork on the End of a String and Makes Lots of Noise but Does no Damage and a Hollow Rubber Ball for Indoor Shooting, without Injury to Walls or Furnishings.
Barrel—Steel, Nickel Plated; Length 16½ inches.
Stock—Hardwood Ebony Finish.

Per Dozen
No. K31—Weight 1 lb. 2 oz.; Length Over All 29 inches; Complete with One Rubber Ball and One Cork..... **$18 00**
Twelfth Dozen in a Box; One Dozen in a Case; Weight per Case 25 lbs.

KING 500 SHOT SPECIAL REPEATER

Lever Action; Shoots 500 Times without Reloading; All working parts [illegible] Brass, all parts interchangeable; this is a High Grade Air Rifle Strictly Guaranteed.
Barrel—Steel, Half Octagon, Nickel Plated, Length 30 inches, Open Front and Rear Sights;
Stock—Black Walnut, Oil Finish.
Frame—Pressed Steel, Nickel Plated, Malleable Iron Lever and Trigger Nickeled.

Per Dozen
No. K22—Shoots Air Rifle Shot Only. Weight 2 lbs.; Length Over all 31½ inches..... **$30 00**

KING KADET

Lever Action; Shoots 500 Times Without Reloading; all working parts Made of Steel and Brass; All Parts interchangeable; This Rifle looks like the regulation army Rifle and has a web sling for carrying, and a Bayonet, Rubber Tipped for Safety.
Barrel—Steel, Half Octagon, Nickel Plated, Open Front and Rear Sights.
Stock—Black Walnut; Oil Finish.
Frame—Pressed Steel; Nickel Plated; Malleable Iron Lever and Trigger Nickeled.

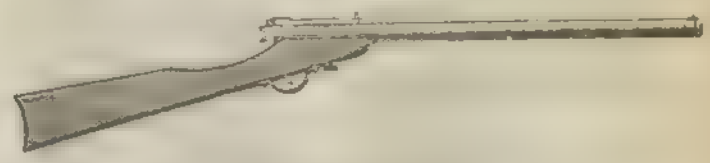
Per Dozen
No. K23—Shoots Air Rifle Shot Only, Weight 2½ Lbs.; Length over all 38 Inches..... **$36 00**
One Dozen in a Case, Weight per Case 22 Lbs.

AIR RIFLES

KING 1000 SHOT

Lever Action; Winchester Model; Shoots 1000 Times without Reloading; Loads Automatically; all working Parts Made of Steel and Brass; all Parts Interchangeable. Fully Guaranteed.
Barrel—Steel Half Octagon; Nickel Plated; Length 22 inches; Open Front and Rear Sights.
Stock—Black Walnut, Oil Finished.
Frame—Pressed Steel, Nickel Plated; Malleable Iron Lever and Trigger, Nickeled.

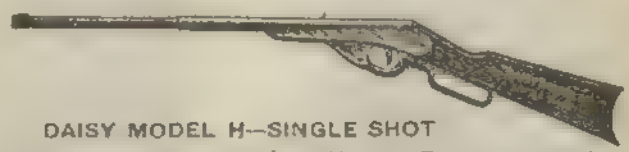
Per Dozen
No. K1000—Shoots Air Rifle Shot Only; Weight 2½ lbs.; Length Over All 36 inches..... **$40.00**
One Dozen in a Case



BENJAMIN—MODEL C

Take Down; Hammerless; Pneumatic; Operated Entirely by Compressed Air; Force of Shot is Entirely Under Operator's Control.

Per Dozen
No. BA—Shoots Air Rifle Shot Only; Full Nickel Plated Barrel; Walnut Stock; Length Over All 37 inches; Length Taken Down 23 inches; Weight about 2 lbs..... **$78 00**
The Guarantee on Benjamin Air Rifles is controlled by the Manufacturer, We assume no Liability on Workmanship
Twelfth Dozen in a Box; One Dozen in a Case; Weight per Case 33 lbs.



DAISY MODEL H—SINGLE SHOT

Lever Action; Single Shot; All Working Parts made of Steel and Brass; Removable Barrel, A Strictly High Grade Air Rifle.
Barrel—One Piece Steel, [illegible], Nickel Plated; Length 21 inches.
Stock—Black Walnut; Oil Finished and Polished.
Frame—Pressed Steel; Nickel Plated; Malleable Iron Lever and Trigger Nickeled; Open Front and Rear Sights.

Per Dozen
No. 12—Shoots Air Rifle Shot or Darts; Length over all 31½ inches; Weight 1¾ lbs..... **$24.00**
One Dozen in a Case, Weight per Case 30 lbs.

DAISY REPEATER

Magazine Designed after the Winchester System; Holds 48 BB Shot.
Barrel—Steel, Nickel Plated, Length 18 inches; Open Front and Peep Rear Sights
Stock—Black Walnut, Varnished.
Frame—Malleable Iron Trigger Guard and Trigger, Nickeled; Pistol Grip Nickel Plated and Polished.

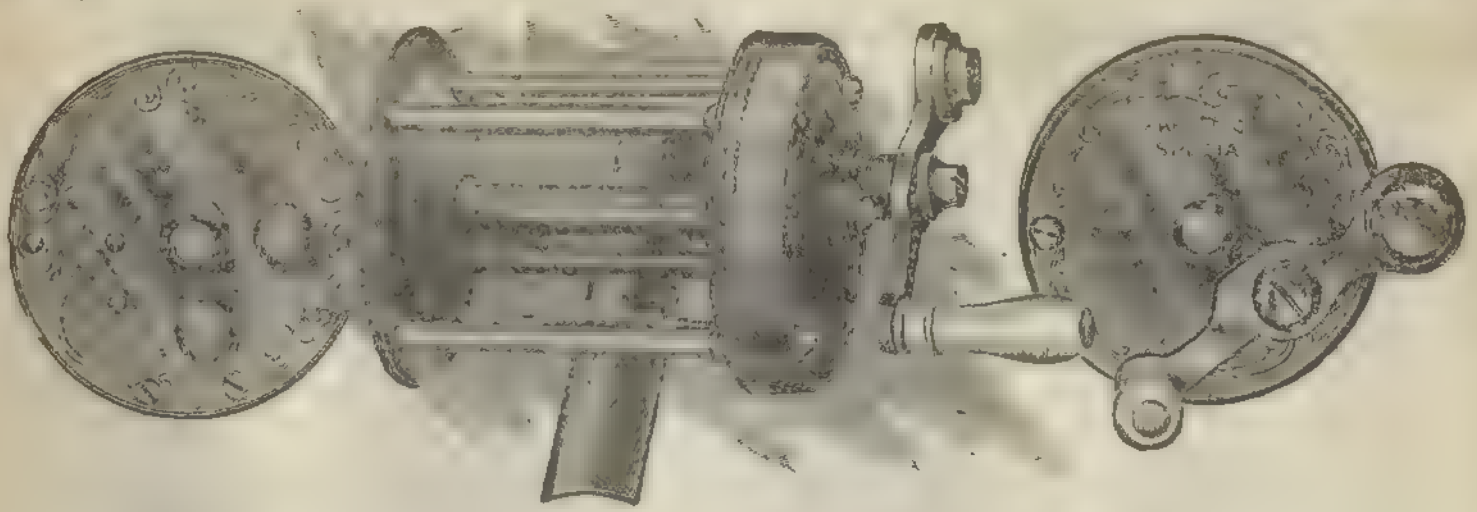
Per Dozen
No. 10—Shoots Air Rifle Shot Only; Weight 1⅞ lbs; Length Over All 30½ inches..... **$22.00**
One Dozen in a Case; Weight per Case 27 lbs.

LITTLE DAISY

Per Dozen
No. 0—Steel Barrel, Hand[illegible] Nickel Plated and Fitted with Walnut [illegible] Finest Construction Ever Shown [illegible] Steel Lever [illegible] Screw; Length [illegible] Weight [illegible] Lbs. **$17.00**
One Doz[illegible] Case 20 Lbs.

FISHING REELS

*DIAMOND BRAND



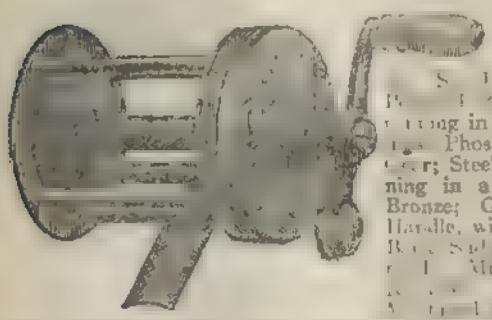
*SHAPLEIGH SPECIAL CASTING QUADRUPLE MULTIPLYING

Heavy Spun Brass Frame; Heavily Gold Plated and Highly Polished and Engraved; Very Strong and Rigid; Steel Axles running in Hardened Brass Bearings; Genuine Jewel Bearings, Phosphor Bronze Cut Spun Gear, Steel Cut Pinion running in a Housing of Hardened Brass; Brass balanced Handle with Ivory Thumb Piece; Back Sliding Steel Click, Brass Drag, Accurately Milled and made to Gauge: All Parts Screwed.

Agate Jeweled End Bearing Oil Cups — Per Dozen

No. SS80—Capacity 80 Yards; Diameter of Plates 2 inches, Length of Spool 1⅞ inches; Actual Weight each 8 ozs.; Shipping Wt. per Doz. 8¼ lbs. **$156.00**
Twelfth Dozen in a Box

*ULTRA CASTING

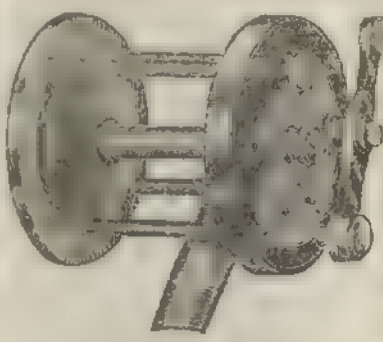


Highest Quality; German Silver Frame; German Silver Spool with Hardened Brass Shaft; **Hard Black Rubber Slide Plates;** Reinforced with German Silver Plates, Steel Axles running in Hardened Brass Bearings; Phosphor Bronze Cut Spur Gear; Steel Cut Spur Pinion running in a Housing of Phosphor Bronze; German Silver Balance Handle, with Ivory Thumb Piece, Back Sliding Steel Click; Accurately Milled Handsomely Knurled Oil Cups and Handle Nuts; All Parts Accurately Milled and Made to Gauge; All Parts Screwed; Easily Taken Apart and Reassembled.

Capacity 60 Yards; Diameter of Plates 2 inches; Length of Spool 1⅞ inches; Actual Weight Each 7 ozs.; Shipping Weight per Dozen 9 lbs.
Per Dozen

No. UCJ—With Agate Jeweled End Bearing Oil Caps.....$132.00
Twelfth Dozen in a Box

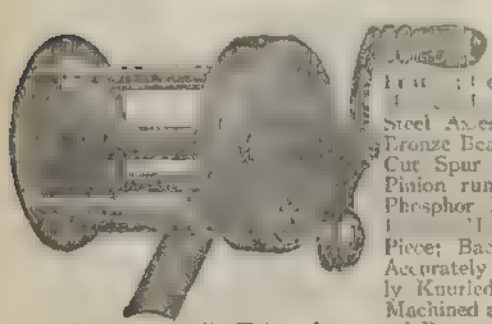
*HIAWATHA CASTING



Highest Quality; German Silver Frame; German Silver Spool with Hardened Brass Shaft; **Hard Black Rubber Slide Plates;** Reinforced with German Silver Plates, Steel Axles Running in Hardened Brass Bearings; Phosphor Bronze Cut Spur Gear; Steel Cut Spur Pinion running in a Housing of Hardened Brass; German Silver Balance Handle with Ivory Thumb Piece, Back Sliding Steel Click; Brass Drag; All Parts Screwed; Knurled Oil Caps and Handle Hub; All Parts Accurately Milled and Made to Gauge.

Plain German End Bearing Oil Caps
Per Dozen

No. H80—Capacity 80 Yards; Diameter of Plates 2¼ inches; Length of Spool 1⅞ inches; Actual Weight Each 6 ozs.; Shipping Weight per Dozen 6 lbs. **$60.00**
Twelfth Dozen in a Box

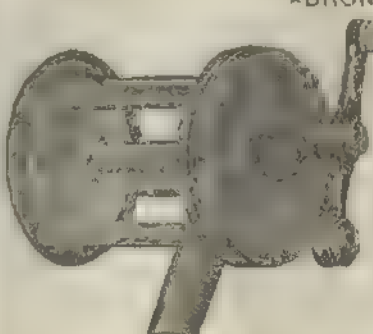


Highest Quality; German Silver Frame; German Silver Spool with Hardened Brass Shaft; Steel Axles running in Phosphor Bronze Bearings; Phosphor Bronze Cut Spur Gear; Steel Cut Spur Pinion running in a Housing of Phosphor Bronze; German Silver Balance Handle with Ivory Thumb Piece; Back Sliding Steel Click, Accurately Milled and Handsomely Knurled; All Parts Accurately Machined and Made to Gauge; All Parts Screwed; Easily Taken Apart and Reassembled.

Capacity 60 yards; Diameter of Plates 2 inches; Length of Spool 1⅞ inches; Actual Weight Each 7 ozs.; Shipping Weight per Dozen 9 lbs.
Per Dozen

No. UC—With Plain German Silver End Bearing Oil Caps $108.00
Twelfth Dozen in a Box

*BRONZBAS

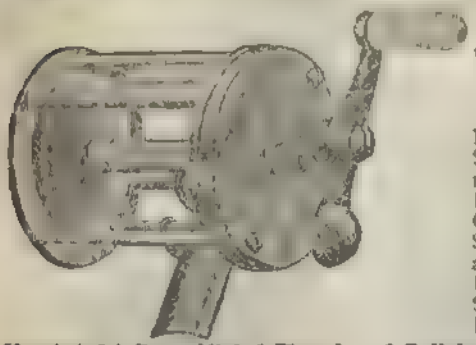


Heavy Spun Brass Frame, German Silver Spool with Hardened Brass Shaft; Steel Axles Running in Hardened Brass Bearings; Phosphor Bronze Cut Spur Gear; Steel Cut Spur Pinion Running in a Housing of Hardened Brass; Bronzed Brass Balance Handle with Ivory Thumb Piece; Back Sliding Steel Click, Brass Drag; All Parts Screwed, Knurled Oil Cups and Handle Hub; All Parts Accurately Milled and Made to Gauge.

With Agate Jeweled End Bearing Oil Caps
Per Dozen

No. BB80—Capacity 60 Yards; Diameter of End Plate 2 inches; Length of Spool 1¾ inches; Actual Weight Each 6 ozs.; Shipping Weight per Dozen 8½ lbs. **$96.00**
Twelfth Dozen in a Box

FISHING REELS
★DIAMOND BRAND



★MARJAC CASTING

With the Very Latest Improved Line Guide

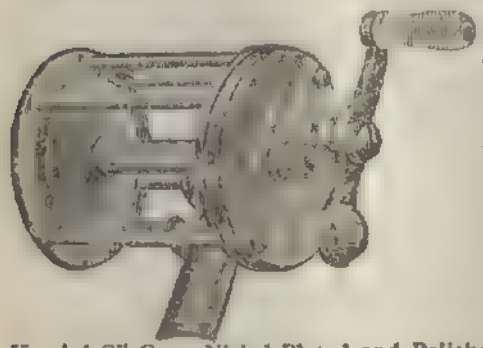
Heavy Spun Brass Frame; Brass Spool and Shaft; Steel Axles Running in Hardened Brass Bearings; PhosphorBronze Cut Spur Gear; Steel Cut Spur Pinion; Brass Balance Handle with White Bone Thumb Piece, Black Sliding Steel Click; Brass Drag; All Parts Screwed; Knurled Oil Caps; **Nickel Plated and Polished** all over.

With Large Ruby Jeweled End BearingOil Caps

Per Dozen

No. MJ80—Capacity 80 Yards; Diameter of Plates 2 inches; Length of Spool 1⅝ inches; Actual Weight each 7 ounces; Shipping Weight per Dozen 7½ lbs..... **$57.00**

Twelfth Dozen in a Box



★MARJAC CASTING

With the Very Latest Improved Line Guide

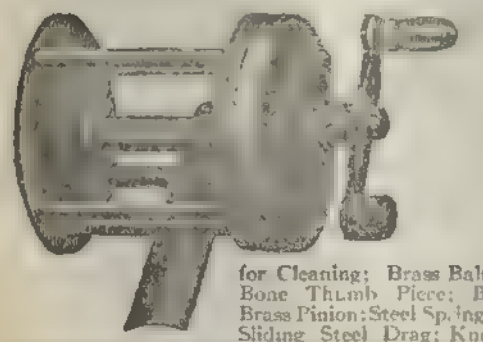
Heavy Spun Brass Frame; Brass Spool and Shaft; Steel Axles Running in Hardened Brass Bearings; PhosphorBronze Cut Spur Gear; Steel Cut Spur Pinion; Brass Balance Handle with White Bone Thumb Piece, Black Sliding Steel Click; Brass Drag; All Parts Screwed; **Knurled Oil Caps; Nickel Plated and Polished** all over.

With Plain Brass End Bearing Oil Caps

Per Dozen

No. M80—Capacity 80 Yards; Diameter of Plates 2 inches; Length of Spool 1⅝ inches; Actual Weight each 7 ounces; Shipping Weight per Dozen 7½ lbs..... **$48 00**

Twelfth Dozen in a Box



★WINASIGO CASTING

Heavy Spun Brass Frame; Brass Spool and Shaft; Steel Axles Running in Hardened Brass Bearings; Phosphor Bronze Cut Spur Gear; Steel Cut Spur Pinion; Gear and Pinion are not Housed, but run under a Dust and Waterproof End Plate; easily Accessible for Cleaning; Brass Balance Handle with White Bone Thumb Piece; Back Sliding Click with Brass Pinion; Steel Spring and Steel Ratchet; Back Sliding Steel Drag; Knurled Discs, Oil Caps and Handle Hub, Nickel Plated and Polished Brass.

With Agate Jeweled End Bearing Oil Caps

Per Dozen

No. WJ80—Capacity 80 Yards; Diameter of Plates 2 inches; Length of Spool 1⅝ inches; Actual Weight Each 7 ozs.; Shipping Weight per Dozen 6¾ lbs..... **$66 00**

No. WJ80—Capacity 80 Yards; Diameter of Plates 2¼ inches; Length of Spool 1⅝ inches; Actual Weight Each 8 ozs.; Shipping Weight per Dozen 7½ lbs..... **70 00**

With Plain Brass End Bearing Oil Caps

Per Dozen

No. W60 Capacity 60 Yards; Diameter of Plates 2 inches, Length of Spool 1⅝ inches; Actual Weight of Each 7 ozs.; Shipping Weight per Dozen 6¾ lbs..... **$60 00**

No. W80—Capacity 80 Yards; Diameter of Plates 2¼ inches; Length of Spool 1⅝ inches; Actual Weight Each 8 ozs.; Shipping Weight per Dozen 7½ lbs..... **66 00**

Twelfth Dozen in a Box

FISHING REELS
★DIAMOND BRAND

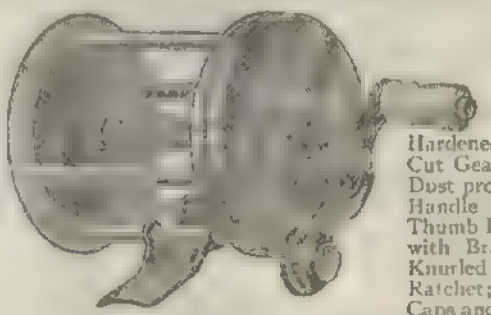
BASPIK

Heavy Brass Frame; Black; Nickel Trimmings; Brass Spool and Shaft; Steel Axles running in Hardened Brass Bearings; Brass Line Guide; Steel Cut Gear. Gear and Pinion are not Housed, but are run under a Dust proof end plate; Easily accessible for Cleaning; Brass Balance Handle with Bone Handle; Ebony Finish; Back Sliding Steel Click with Steel Pinion; Spring and Ratchet [illegible] Steel Drag; Knurled Discs, Oil Caps and Handle Hub. Capacity 80 Yards; Diameter of Plates 2 inches; Length of Spool 1⅝ inches; Actual Weight 6 ozs.; Shipping weight per Dozen 6 lbs.

Per Dozen

No. BP80—With Plain End Bearing Oil Caps **$60 00**

Twelfth Dozen in a Box



THE BASCASTER

Brass, Nickel Plated and Polished; Brass Spool and Shaft; Steel Axles running in Hardened Brass Bearings; Brass Cut Gear; Gear enclosed under Dust proof Cover; Brass Balance Handle with White Bone Thumb Piece; Back Sliding Click with Brass Pinion Steel Drag Knurled Discs, Spring and Steel Ratchet; Back Sliding, Steel Oil Caps and Handle Hub.

With Agate Jeweled End Bearing Oil Caps

Per Dozen

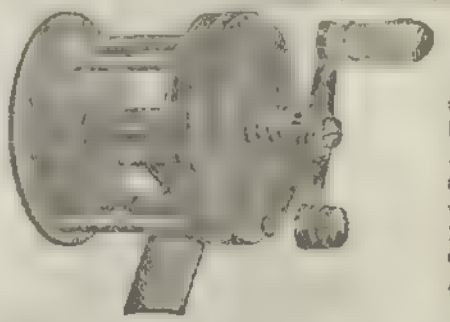
No. JBC80—Capacity 80 Yards; Diameter of Plates 2 inches; Length of Spool 1⅝ inches; Actual Weight Each 6 ozs.; Shipping Weight per Dozen 6 lbs..... **$32 00**

With Plain Brass End Bearing Oil Caps

Per Dozen

No. BC80—Capacity 80 Yards; Diameter of Plates 2 inches; Length of Spool 1⅝ inches; Actual Weight 6 ozs.; Shipping Weight per Dozen 6 lbs..... **$27 00**

Twelfth Dozen in a Box



★IXL

All Brass, Nickel Plated and Polished; Flush Pillars; Large Axles Running in Hard Brass Hubs; Hard Brass Gear and Pinion; Balance Handle with White Bone Thumb Piece; Oil Caps; Back Sliding Click and Drag; Knurled All Parts Screwed

Nos.	XL60	XL80
Capacity, yards	40	60
Diameter of Plates, inches	2	2¼
Length of Spool, inches	1⅝	1⅝
Weight per Dozen, lbs.	5¼	6
Per Dozen	**$27.00**	**30.00**

Twelfth Dozen in a Box

All Brass, **Nickel Plated and Polished;** Raised Pillars; Large Axle Running in Hard Brass Hubs; Hard Brass Gear and Pinion; Balance Handle with White Bone Thumb Piece; **Large Ruby Jeweled Oil Cap** Back Sliding Click and Drag; **Knurled;** All Parts Screwed.

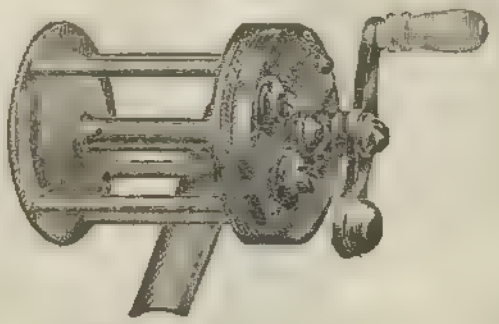
Per Dozen

No. JDN60—Capacity 60 Yards; Diameter of Plates 2¼ inches; Length of Spool 1 inch; Weight per Dozen 5 lbs..... **$27.00**

Twelfth Dozen in a Box

FISHING REELS

*DIAMOND BRAND



*ST. LOUIS CASTING

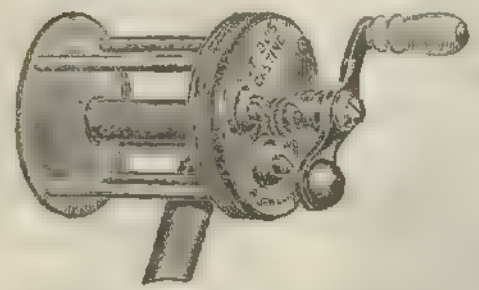
Highest Quality Algerian Silver Frame; Spool and Shaft, Steel Axles running in Hardened Brass Bearings; Phosphor Bronze Cut Spur Gear, Steel Cut Spur Pinion running in a Housing of Hardened Brass; Algerian Silver Balance Handle with Ivory Thumb Piece; Back Sliding Steel Click; Brass Drag Accurately Milled and Nicely Knurled, All Parts Accurately Machined and Made to Gauge, All Parts Screwed.

With Plain Algerian Silver End Bearing Oil Caps

Per Dozen

No. SL60—Capacity 60 Yards; Diameter of Plates 2 inches Length of Spool 1⅝ inches; Actual Weight Each 8 ozs., Shipping Weight per Dozen 7½ lbs. **$66.00**

Twelfth Dozen in a Box



*ST. LOUIS CASTING

Highest Quality; Algerian Silver Frame. Spool and Shaft; Steel Axles running in Hardened Brass Bearings; Phosphor Bronze Cut Spur Gear; Steel Cut Spur Pinion running in a Housing of Hardened Brass; Algerian Silver Balance Handle with Ivory Thumb Piece; Back Sliding Steel Click; Brass Drag; Accurately Milled and Nicely Knurled; All Parts Accurately Machined and made to Gauge; All Parts Screwed.

With Plain Brass End Bearing Oil Caps

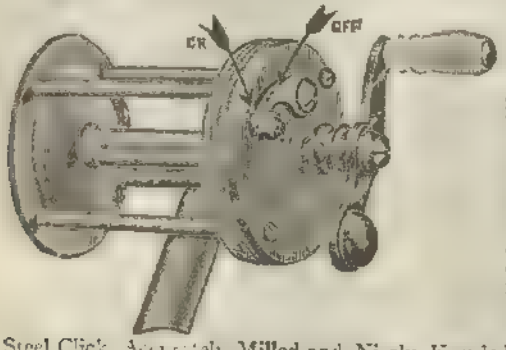
Per Dozen

No. JSL60—Capacity 60 Yards; Diameter of Plates 2 inches; Length of Spool 1⅝ inches; Actual Weight Each 7 ozs.; Shipping Weight per Dozen 7½ lbs. **$90 00**

Twelfth Dozen in a Box

FREE SPOOL

The Best and most Simple of all Free Spool Reels; Only two Mechanical Principles employed, the Lever and Eccentric, Giving an Instantaneous and Positive Action; Spool is Made Free Running or Tight by Operating the Lever on Front Plate.



*ST. LOUIS FREE SPOOL

Highest Quality, Algerian Silver Frame. Spool and Shaft; Steel Axles running in Hardened Brass Bearings; Phosphor Bronze Cut Spur Gear; Steel Cut Spur Pinion running in a Housing of Hardened Brass; Algerian Silver Balance Handle with Ivory Thumb Piece; Back Sliding Steel Click; Accurately Milled and Nicely Knurled, All Parts Accurately Machined and made to Gauge; All Parts Screwed.

With Agate Jeweled End Bearing Oil Caps

Per Dozen

No. SLF60—Capacity 60 Yards; Diameter of Plates 2 inches Length of Spool 1⅝ inches, Actual Weight Each 7 ozs., Shipping Weight per Dozen 7½ lbs. **$108.00**

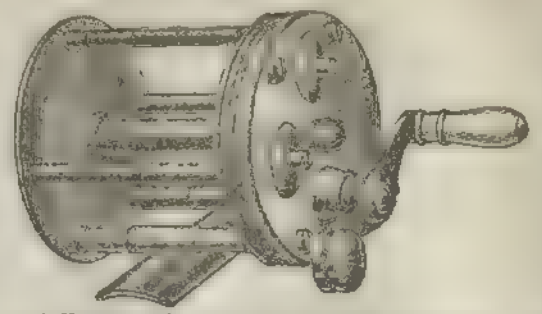
Twelfth Dozen in a Box

FISHING REELS

*DIAMOND BRAND

FREE SPOOL

The Best and most Simple of all Free Spool Reels; Only two Mechanical Principles employed, the Lever and Eccentric, Giving an Instantaneous and Positive Action; Spool is Made Free Running or Tight by Operating the Lever on Front Plate.



BLUE GRASS

German Silver Throughout; Satin and Hand Burnished Finish; Spiral Gear; Gear Cut from Finest Bronze; Steel Cut Spiral Pinion; Tempered Tool Steel Pivots and Studs, Bar Pattern Jewel Head; Absolutely Dust and Waterproof; Fine Scroll Counter balanced Handle with Genuine Ivory Thumb Piece; Accurately and Smooth Working Adjustable Steel Checked Drag on Front Head Plate, Screw-off Oil Caps; All Parts Handsomely Milled, Knurled and Finished.

Diameter of End Plates 2 inches, Length of Spool 1⅝ inches Capacity about 120 yards No. 1 Silk Line; 92 yards No. 3, and 75 yards No. 5

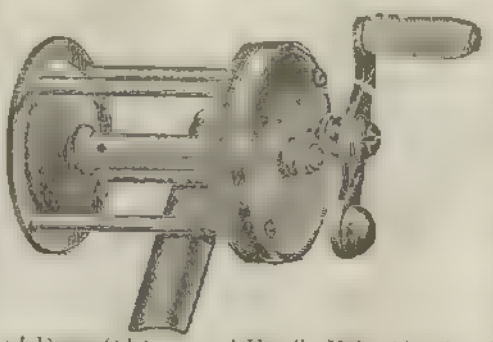
Per Dozen

No. M3J—With Jeweled Pivot Bearings **$360 00**

No. M3—With Plain German Silver Pivot Bearings **270.00**

Actual Weight each 8 ozs. Shipping Weight per Dozen 8¼ lbs.

Twelfth Dozen in a Box



*CASTING

Highest Quality **Algerian Silver** Frame and Spool with Hardened Brass Shaft; Steel Axles running in Hardened Brass Bearings; Phosphor Bronze Cut Spur Gear; Steel Cut Spur Pinion; **Algerian Silver** Balance Handle with White Bone Thumb Piece; Back Sliding Steel Click; Brass Drag, all Parts Screwed, Knurled Discs; Oil Caps and Handle Nut; **Algerian Silver Finish.**

With Large Ruby Jeweled End Bearing Oil Caps

Per Dozen

No. MFJ60 Capacity 60 Yards; Diameter of Plates 2 inches Length of Spool 1⅝ inches, Actual Weight Each 7 ounces; Shipping Weight per Dozen 7½ lbs. **$72 00**

No. MFJ80 Capacity 80 Yards; Diameter of Plates 2 3/16 inches; Length of Spool 1⅝ inches; Actual Weight Each 8 ounces; Shipping Weight per Dozen 8¼ lbs. **75 00**

Twelfth Dozen in a Box

With Plain Brass End Bearing Oil Caps

Per Dozen

No. MF60—Capacity 60 Yards; Diameter of Plates 2 inches, Length of Spool 1⅝ inches, Actual Weight Each 7 ozs., Shipping Weight per Dozen 7½ lbs. **$54 00**

No. MF80 Capacity 80 Yards; Diameter of Plates 2-3/16 inches Length of Spool 1⅝ inches, Actual Weight Each 8 ozs., Shipping Weight per Dozen 8¼ lbs. **57 00**

Twelfth Dozen in a Box

DOUBLE BARREL SHOTGUNS

L. C. SMITH HAMMERLESS

Armor steel barrels, walnut stock, full pistol grip, fore-end and grip neatly checkered.

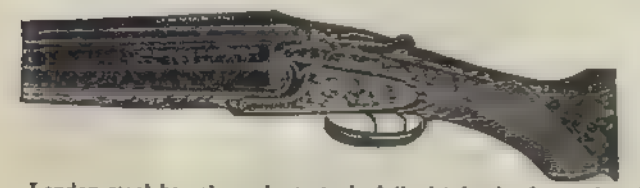
Smith Field—With plain ejector.

12 gauge, 26 or 30 in. barrels.	Wgt. 6¼ to 8 lbs....	Each $35.00
16 gauge, 28 in. barrels.	Wgt. 6 to 7 lbs.....	Each 35 00
20 gauge, 28 in. barrels.	Wgt. 6 to 6½ lbs.....	Each 35 00

Smith Field—With automatic ejector.

12 gauge, 30 in. barrels.	Wgt. 7 to 8 lbs.....	Each $45 00
16 gauge, 30 in. barrels.	Wgt. 6½ to 7½ lbs.....	Each 45 00
20 gauge, 28 in. barrels.	Wgt. 6 to 7 lbs.....	Each 45 00

Left Barrel Full Choke, Right Barrel Modified



London steel barrels, walnut stock, full pistol grip, fore-end and grip neatly checkered. A general purpose gun with just enough engraving to make it attractive.

Smith Ideal—With plain ejector.

12 gauge, 26 or 30 in. barrels.	Wgt. 6¼ to 8 lbs .	Each $45 00
16 gauge, 28 in. barrels.	Wgt. 6 to 7 lbs.	Each 45 00
20 gauge, 28 in. barrels.	Wgt. 6 to 6½ lbs	Each 45 00

Smith Ideal—With automatic ejector.

12 gauge, 26 or 30 in. barrels.	Wgt. 6½ to 8 lbs. .	Each $60 00
16 gauge, 30 in. barrels.	Wgt 6¼ to 7 lbs.....	Each 60 00
20 gauge, 28 in. barrels.	Wgt. 6 to 6½ lbs.....	Each 60 00

Left Barrel Full Choke Right Barrel Modified

Crown steel barrels, selected walnut stock, full pistol grip, neatly checkered. Locks are engraved with a trap shooting scene.

Smith Trap—With automatic ejector.

10 gauge, 28, 30 or 32 in. barrels	Wgt. 8½ to 10¾ lbs .	Each $75 00
12 gauge, 28, 30 or 32 in. barrels	Wgt. 6¼ to 8¼ lbs....	Each 75 00
16 gauge, 28, 30 or 32 in barrels	Wgt. 6¼ to 7 lbs.....	Each 75 00
20 gauge, 26 or 28 in. barrels.	Wgt. 5¾ to 6½ lbs.....	Each 75.00

Left Barrel Full Choke, Right Barrel Modified

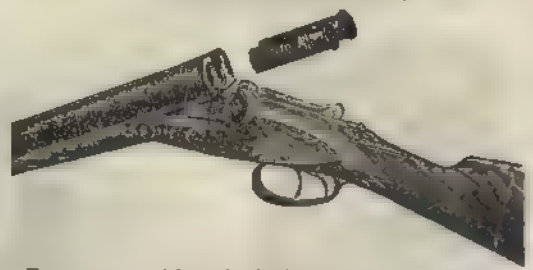
Nitro steel barrels, selected English walnut stock, full pistol grip, fore-end and grip neatly checkered. Engraving is beautiful and appropriate.

Smith Specialty—With automatic ejector.

10 gauge, 28, 30 or 32 in. barrels.	Wgt. 8½ to 10¾ lbs..	Each $90 00
12 gauge, 28, 30 or 32 in. barrels.	Wgt. 6¼ to 8¼ lbs....	Each 90.00
16 gauge, 28, 30 or 32 in. barrels.	Wgt. 6¼ to 7 lbs.....	Each 90.00
20 gauge, 26 or 28 in. barrels.	Wgt. 5¾ to 6½ lbs.....	Each 90 00

Left Barrel Full Choke, Right Barrel Modified

PARKER HAMMERLESS



Fine Damascus steel barrels, finely figured, or Titanic steel (plain black). A very strong serviceable barrel. The stock and fore-end is of fine imported walnut, silver shield, fine hand checkering and engraving, skeleton butt-plate, pistol grip.

Quality D H.—With automatic ejector.

12 gauge, 30 in. barrels.	Wgt. 7 to 8 lbs.....	Each $100 50

Left Barrel Full Choke, Right Barrel Modified

Barrels are of the finest three-blade Damascus steel, very evenly figured, beautiful and durable, or Parker Special (plain black). Stock and fore-end is of selected imported walnut, silver shield, fine checkering and engraving of neat design, skeleton butt-plate, pistol grip.

Quality G. H.—With automatic ejector.

12 gauge, 30 in. barrels.	Wgt. 7 to 8 lbs.....	Each $91 35

Left Barrel Full Choke, Right Barrel Modified

Vulcan steel barrels, American walnut stock and fore-end, checkered and engraved, hard rubber butt-plate.

Quality V. H.—With plain ejector.

12 gauge, 26 or 30 in. barrels.	Wgt. 7 to 8 lbs.. .	Each $45 65
16 gauge, 28 in barrels.	Wgt. 6¾ to 7¾ lbs.....	Each 45 65
20 gauge, 28 in barrels.	Wgt. 5¾ to 7 lbs.....	Each 45 65

Left Barrel Full Choke, Right Barrel Modified

Imported Trojan steel barrels, matted top rib. Stock of American black walnut of good color and finish, full pistol grip, no cap, hard rubber butt-plate, fore-end and grip neatly checkered.

Trojan—With plain ejector.

12 gauge, 26 or 30 in. barrels.	Wgt. 7½ to 8 lbs.....	Each $32 50
16 gauge, 28 in barrels.	Wgt. 6½ to 7 lbs.....	Each 32 50
20 gauge, 28 in barrels.	Wgt 6¼ to 6¾ lbs.....	Each 32 50

Left Barrel Full Choke, Right Barrel Modified

FOX STERLINGWORTH HAMMERLESS

Sterlingworth fluid compressed steel barrels, adapted to black or smokeless powders. American walnut stock and fore-end, full pistol cap grip, rubber butt-plate.

S. S.—With plain ejector.

12 gauge, 30 in barrels	Wgt. 7½ to 7¾ lbs.	Each $30 00

Left Barrel Full Choke, Right Barrel Modified

Each Gun in a Box

DOUBLE BARREL SHOTGUNS

ITHACA HAMMERLESS

A marvel of value for the extremely low price offered. Smokeless powder steel barrels fitted to this gun are especially adapted for nitro powder, black walnut stock, half pistol grip, grip and fore-end nicely hand checkered, blued and case-hardened frame, neat scroll on each side of frame

Field Ithaca—

12 gauge, 28 or 30 in. barrels. Wgt. 7 to 8 lbs . . . . Each $30 00
16 gauge, 28 or 30 in. barrels. Wgt. 6 to 7 lbs . . . . Each 30 00
20 gauge, 28 in. barrels. Wgt. 5½ to 6 lbs. . . . . Each 30.00
Left Barrel Full Choke, Right Barrel Modified

Imported Cockerill steel barrels, nitro powder proved, black walnut stock, of good color and finish. Made with full pistol grip and cap, fore-end and grip neatly hand checkered. Locks constructed the same as in our higher-grade guns. Coil main springs guaranteed.

Special No. 1 Ithaca—

12 gauge, 28 or 30 in. barrels. Wgt. 7 to 8 lbs. . . . . Each $37 75
16 gauge, 28 or 30 in. barrels. Wgt. 6 to 7 lbs. . . . . Each 37.75
Left Barrel Full Choke, Right Barrel Modified

The imported Stub twist barrels used on this grade of gun are strong and durable, and are well known to the sporting public. Stock made of a good, strong piece of black walnut with nice color. Full pistol grip, fore-end and grip neatly checkered. Narrow skeleton rib, six ounces lighter than any other rib made.

No. 1 Ithaca—

12 gauge, 28 or 30 in. barrels. Wgt. 7 to 8 lbs. . . . . Each $40 00
28 gauge, 26 in. barrels. Wgt. 5 to 5¼ lbs. . . . . Each 40.00
Left Barrel Full Choke, Right Barrel Modified

Imported Damascus steel barrels, stock is of selected walnut, grip and fore-end neatly checkered, engraved with neat lettering and a setter dog at points.

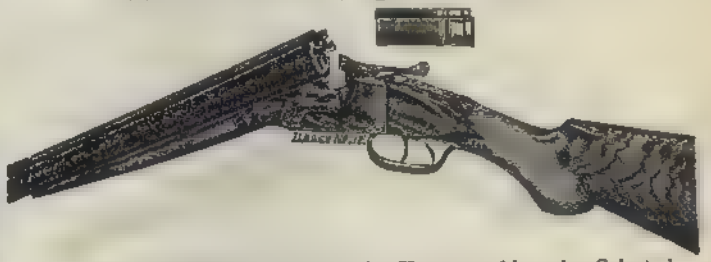
No. 1½ Ithaca—

12 gauge, 28 or 30 in. barrels. Wgt. 7 to 8 lbs. . . . . Each $50 00
16 gauge, 28 or 30 in. barrels. Wgt. 6 to 7 lbs. . . . . Each 50.00
Left Barrel Full Choke, Right Barrel Modified

Imported Damascus steel barrels, very fine walnut stock and fore-end, neatly checkered. This gun has just enough engraving to give it a quiet elegance.

No. 2 Ithaca—

10 gauge, 30 or 32 in. barrels. Wgt. 9 to 10½ lbs. . . . Each $60.00
12 gauge, 28, 30 or 32 in. barrels. Wgt. 7½ to 8 lbs. . Each 60.00
16 gauge, 28 or 30 in. barrels. Wgt. 6¼ to 7 lbs. . . . . Each 60.00
20 gauge, 26 or 28 in. barrels. Wgt. 5¼ to 6 lbs. . . . . Each 60 00
28 gauge, 24 or 26 in. barrels. Wgt. 4¾ to 5¼ lbs. . . . Each 60 00
Left Barrel Full Choke, Right Barrel Modified



Imported chain Damascus or genuine Krupp steel barrels. Selected walnut stock of nice figure and coloring, nicely checkered. Frame, top lever, fore-end iron and guard tastily engraved by hand, full, half or straight grip. Bird scene on bottom of frame, pointer dog on one side, setter dog on other.

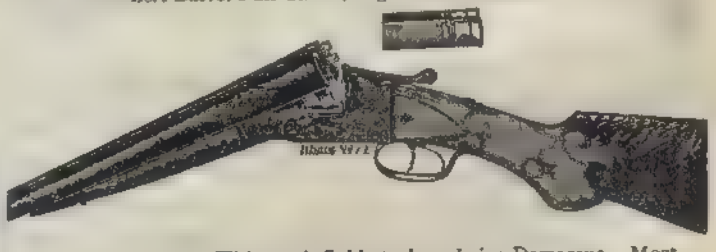
No. 3 Ithaca—With automatic ejector.

10, 12, 16, 20 and 28 gauges. Same specifications and weights as No. 2. . . . . Each $90 00
Left Barrel Full Choke, Right Barrel Modified

Genuine Krupp fluid steel or American Flag Damascus barrels. Nicely figured, carefully fitted, handsomely checkered, walnut stock, full, half or straight grip. Engraving looks good in any company. Triple gold plated triggers and gold shield in stock.

No. 4 Ithaca—With automatic ejector.

10, 12, 16, 20 and 28 gauges. Same specifications and weights as No. 2 . . . . . Each $100.00
Left Barrel Full Choke, Right Barrel Modified



Genuine Krupp, Whitworth fluid steel or choice Damascus. Most carefully selected, richest colored and finest figured walnut stock that Nature can produce, beautifully checkered, full, half or straight grip. Locks damaskeened like a watch. Gold dogs and bird surrounded with beautiful relief engraving. Triple gold plated triggers and gold shield in stock.

No. 7 Ithaca—With automatic ejector.

10, 12, 16, 20 and 28 gauges. Same specifications and weights as No. 2. . . . . Each $400.00
Left Barrel Full Choke, Right Barrel Modified

Each Gun in a Box

DOUBLE BARREL SHOTGUNS

STEVENS HAMMERLESS

High pressure compressed steel barrels bored for nitro powder, matted rib, case-hardened frame, top lever and bolt in one piece locking through extension rib, spiral main springs, check-hook, automatic safety. Stock English walnut, pistol grip checkered rubber butt-plate, length 14 inches, drop about 3 inches, English walnut fore-end, checkered

No. 335—

12 gauge, 28, 30 or 32 in. barrels. Wgt. 7¾ to 8¼ lbs...Each $25.00
16 gauge, 28 or 30 in barrels Wgt 7½ to 8 lbs.....Each 25.00
Left Barrel Full Choke, Right Barrel Modified

STEVENS HAMMER

High pressure compressed steel barrels bored for nitro powder matted rib, case-hardened frame, top lever and bolt in one piece locking through extension rib, check-hook, low circular hammers, rebounding locks, coil main-springs. Stock English walnut checkered, pistol grip, rubber butt-plate, length 14 inches, drop about 3 inches, English walnut snap fore-end, checkered.

No. 235—

12 gauge, 28 30 or 32 in barrels. Wgt 7¾ to 8¼ lbs...Each $20.00
16 gauge, 28 or 30 in barrels. Wgt 7½ to 8 lbs.....Each 20.00
Left Barrel Full Choke, Right Barrel Modified

AMERICAN HAMMERLESS

Armory steel barrels specially bored for smokeless or black powder. All parts are made of drop-forgings (no castings used). D. and E fore-end, matted extension rib, pistol stock, checkered, fancy rubber butt-plate.

No. 6—

12 gauge, 28 or 30 in. barrels. Wgt. 7½ to 8 lbs ....Each $25.00
Left Barrel Full Choke, Right Barrel Modified

Featherweight

Same as No. 6 only built in a lighter model.

No. 6 F. W.—

16 gauge, 28 or 30 in barrels. Wgt 6¼ to 6½ lbs ..Each $25.00
20 gauge, 26 or 28 in barrels. Wgt 6¼ to 6½ lbs...Each 25.00
Left Barrel Full Choke, Right Barrel Modified

AMERICAN HAMMER

Armory steel barrels specially bored for smokeless or black powder matted extension rib. All parts are made of drop-forgings (no castings used). Top-lever action, bar rebounding locks, spiral main-springs, pistol grip stock, checkered, rubber butt-plate, D. and E. fore-end.

No. O—12 gauge, 28 or 30 in barrels. Wgt. 7½ to 8 lbs...Each $20.00
Left Barrel Full Choke, Right Barrel Modified

Featherweight

No. O. F. W.—

16 gauge, 28 or 30 in barrels Wgt 6¼ to 6½ lbs...Each $20.00
20 gauge, 26 or 28 in. barrels. Wgt 6¾ to 6¼ lbs...Each 20.00

AMERICAN SMALL BORE HAMMER

Nitro steel barrels, interchangeable lock parts, bar locks, matted extension rib, pistol grip stock, checkered, top-lever action, spiral main-springs, D and E. fore-end and rubber butt-plate.

No. 28—28 gauge, 26 in barrels Wgt 4¾ lbs.....Each $20.00
Left Barrel Full Choke, Right Barrel Modified

No. 44—44 gauge, 26 in. barrels. Like the No. 28, only chambered for 44 X. L. shot cartridges, 26 in. barrels. Weight 4¾ lbs.....Each $20.00
Left Barrel Full Choke, Right Barrel Modified

SHOT PATTERNS

In a 12 gauge gun, using 1⅛ ounces No. 8 Chilled Shot, 399 pellets per ounce, there would be 449 pellets in the load In a 30 inch circle at 40 yards the pattern would be as follows

Cylinder Bore.....170 to 190 pellets
Modified.....250 to 275 pellets
Full Choke .....310 to 320 pellets

The 16 and 20 gauge guns will make proportionate patterns.

For brush shooting, the cylinder bore is desirable, and for short range field work, the modified choke. For wild fowl and trap shooting, the full choke is the most effective, as it affords greater velocity and penetration, and increasing the killing range.

Each Gun in a Box

ELECTRIC PORTABLE LAMPS

Each

No. 162—Electric Portable Reading Lamp; 16 inch Round Shade; Overlaid Amber Art Glass; Leaf Design; Oxidized Brass Finish; 7¾ inch Round Base; **2 Lights** with Pull Chain Sockets; Six feet Silk Cord and Plug; Height Over all 21¼ inches; Weight 13½ Lbs..... **$27.00**

One in a Box

Each

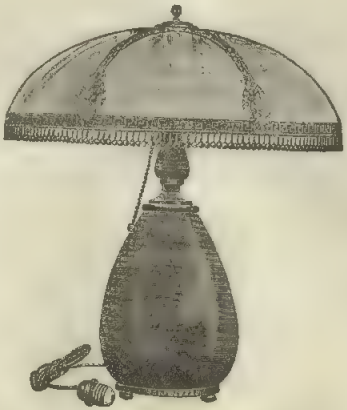
No. 1010½—Electric Portable Reading Lamp, Cast Standard; Base and Shade in Latest Open Work Mission Design; Dome **11 in. Square** with Panels of Amber Art Glass and Ruby Decorations in Small Square; Heavily Embossed Base, Square Standard; Six Foot New Code Lamp Cord; Standard Pull, Plug and Snap Socket; **Single Light**—No Bulb; **Height 20 In.**; **Finish, Verde Green**; Weight 25 lbs..... **$13 50**

One in a Box

Each

No. 196—Electric Portable Reading Lamp; Octagon Shade 15½ inches in Diameter with Panels of Green Art Glass; Mahogany Finish Holder and Base; **One Light** with Pull Chain Socket; Complete with Six Feet Silk Cord and Plug; Height Over all 19 inches; Weight 14 Lbs..... **$15 50**

One in a Box



Each

No. 626—Electric Portable Reading Lamp; Round Shade, 16 inches in Diameter; Base Made of Solid Copper in Vase Effect, Cluster and Shade finished in Dull Cyprian, wired with Two Pull Chain Sockets; 6 ft. of Silk Cord with Plug; Height Over All 29 inches; Weight 10½ lbs..... **$39 00**

One in a Box

ELECTRIC PORTABLE LAMPS

Each

No. 1⅛—Electric Portable Reading Lamp; 12 inch Round Dark Green Shade; Base, Stem and Cluster finished in Antique Brass; Two Lights with Pull Chain Sockets; Complete with Six Feet of Silk Cord and Plug; Height Over All 19½ inches.....**$13 50**

One in a Box

Each

No. 175—Electric Portable Reading Lamp; Overlaid Art Glass Shade, 19 inches in Diameter; Cluster Shade and Tube Old Brass Finish; Two Lights with Pull Chain Sockets; Complete with Six Feet of Cord and Plug; Height Over All 21½ inches; Weight 13 lbs. **$30 00**

One in a Box

Each

No. 1088½—Fancy Japanned Bronze Standard; Decorated Green and Orange Glass Dome; Single Socket for One Light; Complete with Silk Cord and Plug; Height Over All 14 inches; Weight 8 lbs.....**$14 50**

One in a Box

Each

No. 736½ Electric Portable Reading Lamp; Octagon Amber Shade 13 inches in Diameter; Base, Stem and Cluster in Verde Antique Green Finish; Two Lights with Pull Chain; Complete with 6 Feet of Silk Cord and Plug; Height Over All 21 inches; Weight 9 lbs. **$17.50**

One in a Box

ELECTRIC PORTABLE LAMPS

Each

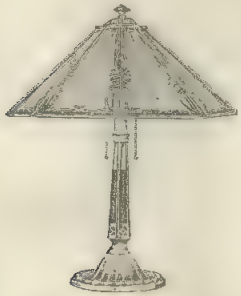
No. 60E—Electric Portable Reading Lamp; Amber Shade, 18½ inches in Diameter; Base, Stem and Cluster Finished in a Rich Byzantine Bronze; Complete with Three Pull Chain Sockets; Six Feet Silk Cord and Plug; Height Over All 22 inches; Weight 16 lbs..... **$39.00**

One in a Box

Each

No. 335—Electric Portable Reading Lamp; Scenic Decorated Shade 10 inches in Diameter; Base, Stem and Cluster Finished in Royal Bronze; One Pull Chain Socket; Complete with Six Feet Silk Cord and Plug; Height Over All 17 inches, Weight 15 lbs..... **$14.00**

One in a Box



Each

No. 53E—Electric Portable Reading Lamp; Amber Glass Shade, 17 inches in Diameter; Base, Stem and Cluster Egyptian Bronze Finish; Complete with Two Pull Sockets; Six Feet Silk Cord and Plug; Height Over All 22 inches, Weight 15 lbs..... **$30 00**

One in a Box

Each

No. 706½—Electric Portable Reading Lamps; Amber Glass Shade, 19 inches in Diameter; Base, Stem and Cluster Flemish Brass Finish; Two Pull Chain Sockets; Complete with Six Feet Silk Cord and Plug; Height Over All 20 inches; Weight 17 lbs..... **$31 00**

One in a Box

ELGIN MILITARY WRIST WATCHES

With Plain or Luminous Dials

Luminous Dial (Day View)

Elgin Military Watches have 3/O Size, 7-Jewel Movements and are equipped with double-roller escapements. They are especially adapted to hard outdoor use

Luminous Dial (Night View)

Complete in sturdy, compact case of special design. Strong, mannish looking, silvered dial with heavy figures and hands. Heavy cowboy-style strap of battleship gray, perforated for ventilation

No. 9466 Price, with plain dial and hands.....$19 00
Extra for luminous hands and dots, add list.. 3.85
Extra for luminous hands and figures, add list 5 95

Sportsmen, motorists, golfers, athletes and army and navy men instantly appreciate the features which make this the handy "extra watch" for outdoor service.

With Plain Dial

WALTHAM MILITARY WRIST WATCHES

"CADET"

14K Gold, Double Stock Back

No. 9467	Nickel Case, 15-Jewel	$35 25
No. 9468	Silver Case, 15-Jewel	38 05
No. 9469	Nickel Case, 7-Jewel	25.40
No. 9470	Silver Case, 7-Jewel	28 45
Full Figures, Luminous Dials and Hands, add list extra		6 00

Guaranteed Accurate Time Keepers

"TONNEAU"

14K Gold, Double Stock Back

No. 9471	Nickel Case, 15-Jewel	$30 20
No. 9472	Silver Case, 15-Jewel	42 40
No. 9473	Nickel Case, 7-Jewel	29 20
No. 9474	Silver Case, 7-Jewel	32 45
Full Figured Luminous Dials and Hands, add list, extra		6 00

ROYAL B. and B. GOLD FILLED MILITARY WRIST WATCHES

O SIZE
ROYAL 20 YRS.

Open Face Wristlet

No. 9475 Case and Strap only..... $ 7 45

No. 9476 With Standard Movement and Strap, complete... $16 80

O SIZE
ROYAL 20 YRS.

Appearance by Daylight

O SIZE
ROYAL 20 YRS.

Appearance in the Dark

Wristlet Watches with New York Standard Movement. Luminous dial. Figures and hands are radium treated and stand out brightly in the dark

No. 9477 Price, complete with New York Standard Movement and Strap.....$19 85

3/O SIZE
ROYAL 20 YRS.

Open Face Wristlet

No. 9477½ Case and Strap only..... $7 45

No.	Fitted with	Complete
9478	7 Jewel Elgin	$23 90
9479	7-Jewel Waltham	27 45
9480	15-Jewel Elgin	34 75
9481	15-Jewel Waltham	35 25
9482	16-Jewel Waltham..	46.40

CROWN STERLING SILVER MILITARY WRIST WATCHES

0 SIZE
CROWN SILVER

No. 9483 Fitted with Ideal Movement, complete $12 65
No 9484 Fitted with New York Standard Movement, complete. $14 35

0 SIZE
CROWN SILVER

No. 9485 Fitted with Ideal Movement, complete. $12 65
No. 9486 Fitted with New York Standard Movement, complete $14.35

3/0 SIZE
CROWN SILVER

No. 9487 Fitted with 7-Jewel Elgin, complete.....$22 05
No. 9488 Fitted with 7-Jewel Waltham, complete. $21 45
No. 9489 Fitted with 15-Jewel Elgin, complete ... $31 65
No. 9490 Fitted with 15-Jewel Waltham, complete.. $33 65

3/0 SIZE
CROWN SILVER

No. 9491 Fitted with 7-Jewel Elgin, complete $22 05
No. 9492 Fitted with 7-Jewel Waltham, complete $21 45
No. 9493 Fitted with 15-Jewel Elgin, complete $31 65
No. 9494 Fitted with 15-Jewel Waltham, complete. .$33 65

CROWN SILVERODE MILITARY WRIST WATCHES

0 SIZE
CROWN NICKEL

No 9495 Fitted with Ideal Movement, complete..$10.00
No. 9496 Fitted with New York Standard Movement, complete $11.80

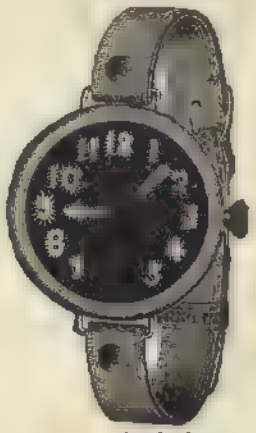
0 SIZE
CROWN NICKEL

No. 9497 Fitted with Ideal Movement, complete. $10.00
No. 9498 Fitted with New York Standard Movement, complete.. . $11.80

0 SIZE
CROWN NICKEL

Appearance by Daylight

0 SIZE
CROWN NICKEL



Appearance in the Dark

Wristlet Watches with New York Standard Movement. Luminous dial.

Figures and hands are radium treated and stand out brightly in the dark

No. 9499 Price, complete with New York Standard Movement and Strap $15.35

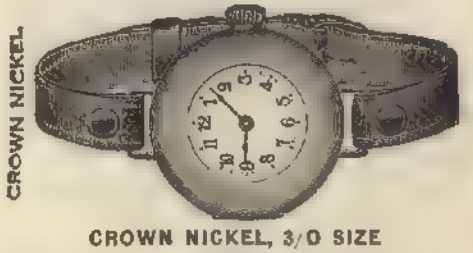
CROWN SILVERODE MILITARY WRIST WATCHES

CROWN NICKEL

CROWN NICKEL, 3/0 SIZE

No 9500 Fitted with 7-Jewel Elgin, complete. .. $19 45
No 9501 Fitted with 7-Jewel Waltham, complete . 21 85
No 9502 Fitted with 15-Jewel Elgin, complete . . . 29 05
No 9503 Fitted with 15-Jewel Waltham, complete . . 31 05
No 9504 Fitted with 16-Jewel Waltham, complete 41 90

CROWN NICKEL



CROWN NICKEL, 3/0 SIZE

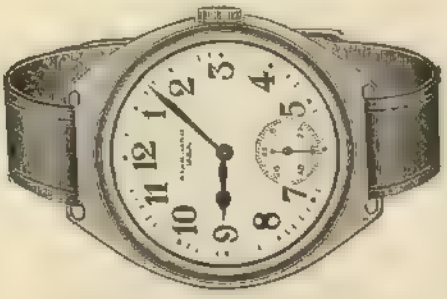
No 9505 Fitted with 7-Jewel Elgin, complete..... $19 45
No. 9506 Fitted with 7-Jewel Waltham, complete. . 21 85
No. 9507 Fitted with 15-Jewel Elgin, complete. 29 05
No. 9508 Fitted with 15-Jewel Waltham, complete 31 05
No. 9509 Fitted with 16-Jewel Waltham, complete 41 90

CROWN SILVERODE MILITARY WRIST WATCHES

LEATHER STRAP 6 SIZE

Complete Watches with Heavy Hands and Dial

No. 9510 Bascine O. F. Wristlet with Standard Movement and Strap $8 60



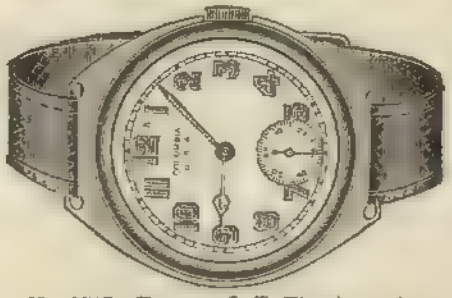
No. 9512 Tonneau O. F. Wristlet with Standard Movement and Strap $8 60

No. 9514 Bascine O. F. Wristlet with Standard Movement and Strap Luminous Hands and Dial. $12 10

COMPLETE WATCHES WITH LUMINOUS HANDS AND DIAL

No. 9515 Bascine O. F. Wristlet with Columbia Movement and Strap..$10 90

No. 9516 Tonneau O F. Wristlet with Standard Movement and Strap. .$12.10

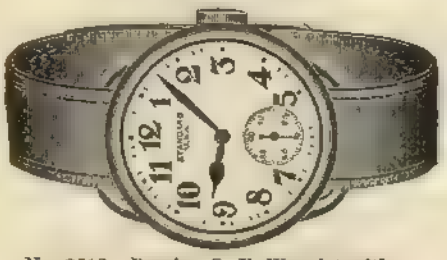


No. 9517 Tonneau O. F. Wristlet with Columbia Movement and Strap $10 90

CROWN SILVERODE MILITARY WRIST WATCHES

LEATHER STRAP—O SIZE

Cases and Complete Watches with Heavy Hands and Dial



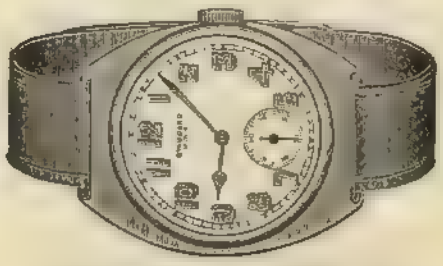
No. 9518 Bascine O F Wristlet with Standard Movement and Strap...$11.85

No. 9520 Tonneau O F Wristlet with Standard Movement and Strap...$11.85

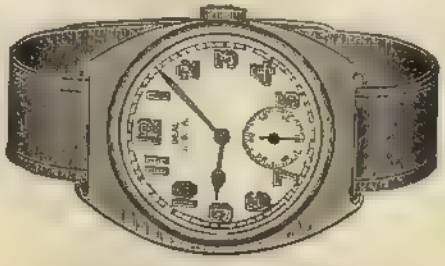
No. 9522 Bascine O F Wristlet with Standard Movement and Strap. Luminous Hands and Dial.....$15 40

COMPLETE WATCHES WITH LUMINOUS HANDS AND DIAL

No. 9523 Bascine O. F. Wristlet with Ideal Movement and Strap.. , $13.60



No. 9524 Tonneau O F Wristlet with Standard Movement and Strap. . $15 40



No. 9525 Tonneau O F. Wristlet with Ideal Movement and Strap .$13 60

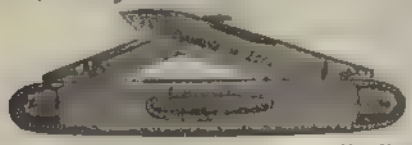
POCKET KNIVES

EMPIRE

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

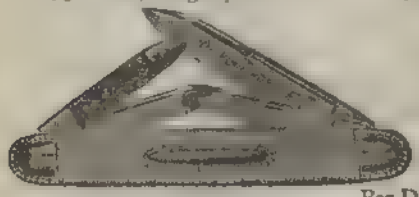
DIAMOND EDGE (FANCY PATTERNS)

Oval Pearl Handles, Invisibly Riveted, German Silver Lined, Rolled Gold Bolsters and Shield; Full Crocus Polished and Etched Blades; Flush Joints.



Per Dozen

No. 2DEG —Two Blades, One Large Spear and One Small Pen; Length 2¾ inches; Weight per Dozen 10 ozs. **$36.00**



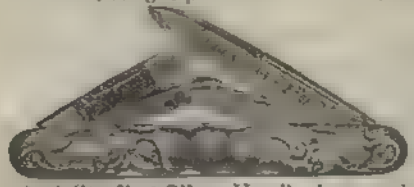
Per Dozen

No. 42DEG —Four Blades, One Large Spear, Two Small Pens and One File; Length 2¾ in.; Weight Doz. 12 ozs **$44.00**

No. 4DEG —Four Blades, One Large Spear, Two Small Pens and One File; Length 3 inches; Wt. Doz. 16 ozs... **48.00**

Per Dozen

No. 2543—Oval Sterling Silver Handle, French Gray Finish; Length 2¾ inches; Golf Design; German Silver Lined; Two Blades, One Large Spear and One Small Pen, Full Crocus Polished; Weight per Dozen 7 ozs....**$33.00**



Oval **Sterling Silver** Handle, French Gray Finish; Length 2¾ inches; Floral Design; German Silver Lined; Full Crocus Polished Blades.

Per Dozen

No. 28—Two Blades; One Large Spear and One Small Pen; Wt. Doz. 7 ozs. . **$33.00**

No. 34—Four Blades; One Large Spear, Two Small Pens and One File; Weight per Dozen 10 ozs **38.00**

Oval, **Sterling Silver** Handle, French Gray Finish, Art Design; Length 3 inches; German Silver Lined; Full Crocus Polished Blades.

Per Dozen

No. 22—Two Blades, One Large Spear and One Small Pen; Wt. Doz. 10 ozs.**$33.00**

No. 27 —Four Blades, One Large Spear, Two Small Pens and One File; Weight per Dozen 12 ozs **40.00**

All Above, Half Dozen in a Box

Oval, **Sterling Silver** Handles, French Gray Finish, Locust Design; Length 2¾ inches; German Silver Lined; Milled Backs; Full Crocus Polished Blades.

Per Dozen

No. 28G—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 8 ozs.. .. .. **$33.00**

No. 34G—Four Blades, One Large Spear, Two Small Pens and One File; Weight per Dozen 10 ozs **38.00**

Per Dozen

No. 341—Oval, Sterling Silver Handle, French Gray Finish; Columbia Design; Length 3¼ inches; German Silver Lined; **Three Blades,** One Large Spear, One File and One Cigar Cutter with Patent Spring Opener; Full Crocus Polished and Etched; Weight per Dozen 16 ozs..... **$48.00**

Oval **Sterling Silver** Handle, French Gray Finish, Nimrod Design; Length 3 inches; German Silver Lined; Full Crocus Polished Blades.

Per Dozen

No. 2536 —Two Blades, One Large Spear and One Small Pen; Weight per Dozen 10 ozs. . **$33 00**

No. 42536—Four Blades, One Large Spear, Two Small Pens and One File; Weight per Dozen 12 ozs.. .... **40 00**

Oval, **Sterling Silver** Handle, French Gray Finish, Angler Design, Length 3¼ inches, German Silver Lined; Full Crocus Polished and Etched Blades.

Per Dozen

No. 2540—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 10 ozs. .. **$33 00**

No. 42540—Four Blades, One Large Spear, Two Small Pens and One File, Weight per Dozen 14 ozs. ... **48 00**

All Above, Half Dozen in a Box

Oval, **Sterling Silver** Handle, French Gray Finish, Floral Design; Length 3 inches; German Silver Lined; Full Crocus Polished and Etched Blades.

Per Dozen

No. 2721 —Two Blades, One Large Spear and One Small Pen; Weight per Dozen 10 ozs.... ..... **$38 00**

No. 42721—Four Blades, One Large Spear, Two Small Pens and One File; Weight per Dozen 14 ozs **48 00**

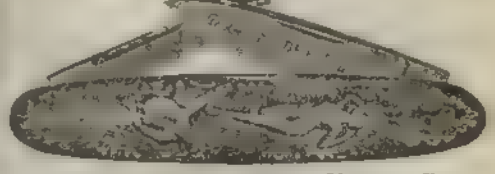
Congress, **Sterling Silver** Handle, French Gray Finish, Water Lily Design; Length 3½ inches; German Silver Lined; Hand Milled Backs; Full Crocus Polished and Etched Blades.

Four Blades, One Large Congress, Two Small Pens and One File; Weight per Dozen 22 ozs.

Per Dozen

No. 4S194½SS—DIAMOND EDGE **$50.00**

No. 4E194½SS—Empire..... **50.00**



Oval, **German Silver** Handle, Bronze Finish, Art Design; Length 3¼ inches; Unlined; Half Crocus Polished and Etched Blades.

Two Blades, One Large Spear and One Small Pen; Weight per Dozen 16 ozs.

Per Dozen

No. 2S342M—DIAMOND EDGE **$13 00**

No. 2E342M—Empire.. ... . **13 00**

Oval, **German Silver** Handle, Oxidized Silver Finish, Art Design; Length 3¼ inches; German Silver Lined; Half Crocus Polished and Etched Blades.

Two Blades, One Large Spear and One Small Pen; with Cork Screw, Wire Cutter and Bottle Cap Remover; Weight per Dozen 16 ozs.

Per Dozen

No. 4S347M—DIAMOND EDGE..... **$30 00**

No. 4E347M—Empire..... **30.00**

All Above, Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

*SHAPLEIGH HARDWARE COMPANY

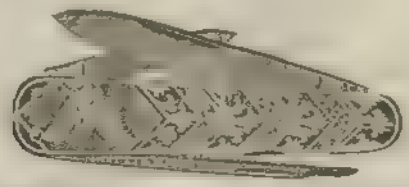
GERMAN IMPORTED FANCY PATTERNS

Finest Grade Hand Forged Steel Blades, Full Crocus Polished; Artistically Embossed Steel Handles; German Silver Milled Linings

German Silver Ring Easy Opener, Oval Handle, Length 3 inches; **Black Gun Metal Finish,** Raised Floral Design in Silver, Bronze and Red Colors.

Per Dozen

No. H1—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 14 ozs..... **$48 00**



Oval Tapered Handle, Length 2¾ inches; **Blued Steel and Gold Background** with Polished Steel Raised Floral and Sheaf Design; Old Glory in Red, White and Blue on one side and Silver Eagle on the other.

Per Dozen

No. H4—Three Blades, One Large Spear, One Small Pen and One Long Nail File; Weight per Doz. 14 ozs..... **$48 00**

Oval Handle, Length 3 inches; **Black Gun Metal Finish,** Raised Floral Design in Silver and Gold Finish.

Per Dozen

No. H2—Three Blades, One Large Spear, One Small Pen and One Long Nail File; Weight per Dozen 14 ozs..... **$50.00**

Oval Handle, Length 3 inches; **Black Gun Metal Finish,** Raised Floral Design in Silver Finish.

Per Dozen

No. H8—Three Blades, One Large Spear, One Small Pen and One File; Weight per Dozen 19 ozs..... **$48 00**

Oval Tapered Handle, Length 2¾ inches; **Blued Steel and Gold Background** with Polished Steel Raised Floral and Sheaf Design; Old Glory in Red, White and Blue on one side and Silver Eagle on the other.

Per Dozen

No. H9—Three Blades and Scissors, One Large Spear, One Small Pen and One Long Nail File; Weight per Dozen 20 ozs..... **$78.00**

Oval Handle, Length 2¾ inches; **Dull Silver Finish Background** with Raised Floral and Bird Design in Polished Silver, Gold and Red Colors.

Per Dozen

No. H5—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 14 ozs..... **$32 00**

Oval Handle, Length 2½ inches; **Gold Background** with Blued Steel Tree and Silver Bird Design; Raised Polished Steel Border.

Per Dozen

No. H7—Three Blades, One Large Spear, One Small Pen and One Long Flat Nail File; Weight per Dozen 10 ozs.... **$54.00**

Fancy Swelled Handle, Length 3 inches; **Gold Background** with Raised Branch Design in Blued Steel and Silver Finish; Raised Polished Steel Border.

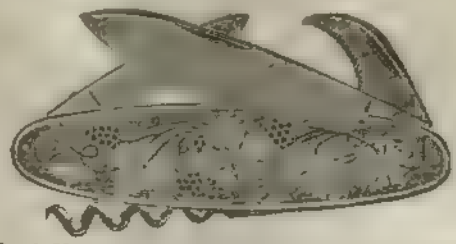
Per Dozen

No. H6—Three Blades, One Large Spear, One Small Pen and One Long Flat Nail File; Weight per Dozen 14 ozs... **$48.00**

Oval Handle, Length 3¼ inches; **Gold Background** with Raised Floral and Scroll Design in Blued Steel, Silver and Red Colors; Old Glory in Red, White and Blue on one side and Silver Eagle on the other.

Per Dozen

No. H3—Four Blades, One Narrow Congress, Two Pens and One File; Weight per Dozen 14 ozs..... **$47.00**



Heavy Oval Handle, Length 3 inches; **Gold Background** with Raised Grape Vine Design, Vine and Grapes in Blued Steel Finish and Silver Leaves, Raised Polished Steel Border.

Per Dozen

No. H10—Two Blades with Cork Screw and Wire Cutter; One Large Spear Blade and One Small Pen Blade; Weight per Dozen 1¼ lbs..... **$56.00**

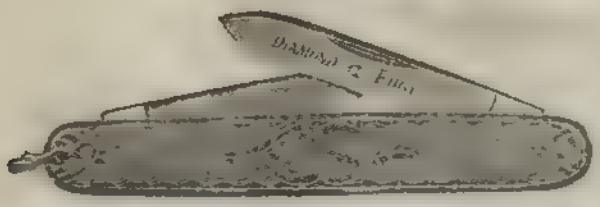
All Above, Quarter Dozen in a Box; One Dozen in a Package.

POCKET KNIVES

Forged from the Highest Grade Sheffield Steel; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections; Fully Guaranteed.

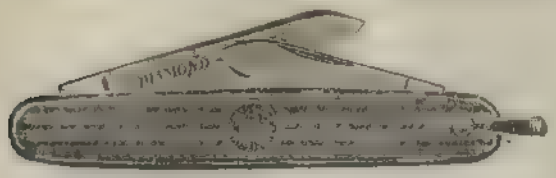
*DIAMOND EDGE FANCY PATTERNS

12K GOLD FRONT HANDLES, WITH SOLID GOLD SHACKLES



12K Gold Front Flat Handle, 1/60 Stock; Fancy Engraved Design; Length 3 inches; Brass Lined; Full Crocus Polished Blades. Per Dozen

No. 8205—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 15 ozs. **$27 00**

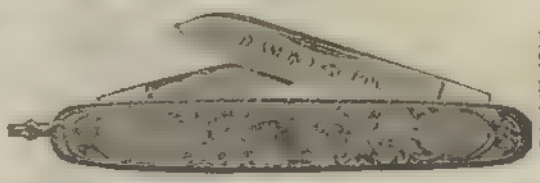


12K Gold Front Flat Handles, 1/10 Stock; Fancy Engraved Design; Length 2⅝ inches; German Silver Lined; Full Crocus Polished Blades, Per Dozen

No. 436/OE—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 13 ozs. **$54 00**

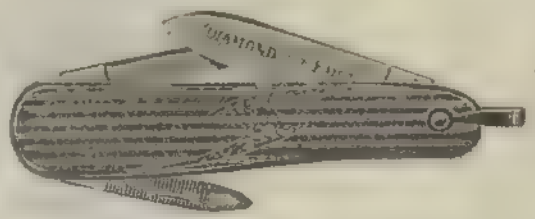
12K Gold Front Flat Handles, 1/10 Stock; Fancy Engraved Design; Length 2⅝ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 8/18—Three Blades, One Large Spear, One Small Pen and One File; Weight per Dozen 13 ozs. **$84 00**



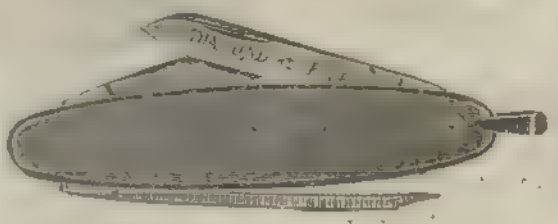
12K Gold Front Flat Handles, 1/60 Stock; Fancy Engraved Design; Length 2⅝ inches; Brass Lined; Full Crocus Polished Blades. Per Dozen

No. 8104—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 14 ozs. **$32.00**



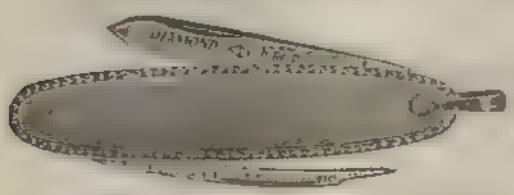
12K Gold Front Flat Handles, 1/10 Stock; Fancy Engraved Design; Length 2½ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 465/OE—Three Blades, One Large Spear, One Small Pen and One File; Weight per Dozen 14 ozs. **$80 00**



12K Gold Front Oval Handles, 1/10 Stock; Satin Finish with Beveled Edges; Length 2⅝ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 8/1—Three Blades, One Large Spear, One Small Pen and One Nail File; Weight per Dozen **$60 00**



12K Gold Front Oval Handles, 1/10 Stock; Satin Finish with Beaded Edges; Length 2⅝ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

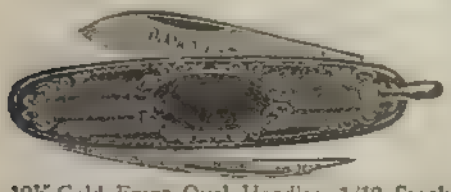
No. 1/47—Two Blades, One Large Spear and One Nail File; Weight per Dozen 12 ozs. **$48.00**

12 GK Gold Front Oval Handles, 1/10 Stock; Satin Finish, Fancy Engraved Design; Length 2⅝ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 33—Two Blades, One Large Spear and One Nail File; Weight per Dozen 12 ozs. **$48.00**

12K Gold Front Oval Handles, 1/10 Stock; Fancy Engraved Design; Length 2⅝ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

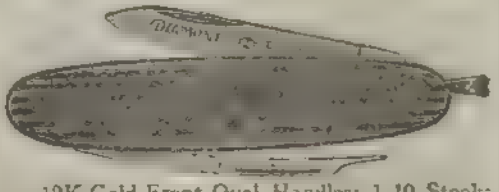
No. 1/74—Two Blades, One Large Spear and One Nail File; Weight per Dozen 12 ozs. **$60.00**



12K Gold Front Oval Handles, 1/10 Stock; Bright Finish, Fancy Engraved Design; Length 2⅝ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 4/27G—Two Blades, One Large Spear and One Nail File; Weight per Dozen 12 ozs. **$70 00**

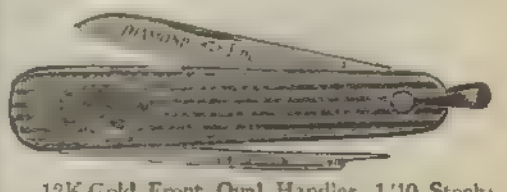
All Above, Half Dozen in a Box



12K Gold Front Oval Handles; 1/10 Stock; Bright Finish; Fancy Engraved Design; Length 2⅝ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 1/97—Two Blades, One Large Spear and One Nail File; Weight per Dozen 13 ozs. **$66 00**

All Above, Half Dozen in a Box



12K Gold Front Oval Handles, 1/10 Stock; Bright Finish; Fancy Engraved Design; Length 2⅝ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 8/90—Two Blades, One Large Spear and One Nail File; Weight per Dozen 13 ozs. **$66 00**

All Above, Half Dozen in a Box

POCKET KNIFE ASSORTMENTS

Per Assortment

No. 12GPA—12K Gold Front Handles, Twelfth Dozen Each of Above in Green Plush Lined Wood Case, Imitation Tan Leather Covered **$58 00**

Each

No. 12TL—Cases Only, Green Plushed Lined, to Hold Twelve Pen Knives; Imitation Tan Leather Covered, Wood Frames. **$1 40**

No. 6TL—Cases Only, as above, to Hold Six Pocket Knives as above **1 00**

No. 3TL—Cases Only, as above, to Hold Three Pocket Knives as above **60**

One in a Box

POCKET KNIVES

Forged from Best Pocket Cutlery Steel known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

EMPIRE

FOUR BLADE PENS

Length 3⅛ inches; German Silver Tips; Brass Lining; One large Pen Blade, one small Pen Blade, one French Nail File and one Pair Scissors; Full Crocus Polished and Etched Blades; Weight per Dozen 24 ozs.

★DIAMOND EDGE

	Per Dozen
No. 4S419ST Patent Stag Handle	$36 00
No. 4S419P—Mother of Pearl Handle	48.00

Half Dozen in a Box

Same as above, except without Nail File

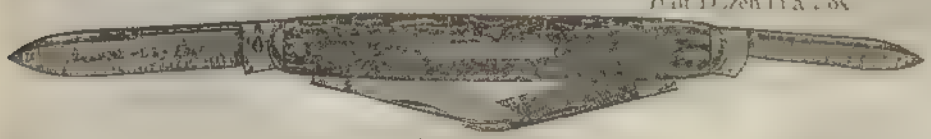
	Per Dozen
No 3S408ST Patent Stag Handle	$32 00
No. 3S408P Mother of Pearl Handle	48 00

★DIAMOND EDGE

Length 3⅛in.; Biased German Silver Bolsters; German Silver Diamond Shield; Brass Lining; One Large Pen Blade, two small Pen Blades and one File Blade; Full Crocus Polished and Etched Blades; Weight per Dozen 18 ozs.

	Per Dozen
No. 4S377P—Mother of Pearl Handle	$42 00
No. 4S377J—Golden Pearl Pyralin Handle	27 00
No. 4S377ST—Patent Stag Handle	24.00

Half Dozen in a Box



Length 3¼ inches; German Silver Tipped; One Spear, Two Pens and One File Blade; Half Crocus Polished and Etched; German Silver Lining; Hand Milled; German Silver Shield; Weight per Dozen 16 ozs.

★DIAMOND EDGE

	Per Dozen
No 4S106GST -Genuine Stag Handle	$28 00
No. 4S106P Pearl Handle	40.00

Half Dozen in a Box

★EMPIRE

	Per Dozen
No.4E106GST -Genuine Stag Handle	$28 00
No. 4E106P —Pearl Handle	40.00

Length 3⅛ inches; German Silver Tipped; One Large Spear, Two Pens and One File Blade; Half Crocus Polished and Etched; German Silver Lining; Hand Milled; German Silver Shield; Weight per Dozen 20 ozs.

★DIAMOND EDGE

	Per Dozen
No. 4S105GST—Genuine Stag Handle	$27 00
No. 4S105P —Pearl Handle	44.00

Half Dozen in a Box

★EMPIRE

	Per Dozen
No. 4E105GST -Genuine Stag Handle	$28.50
No. 4E105P —Pearl Handle	44.00

Length 3½ inches; German Silver Bolsters; One Large Spear, Two Pens and One File Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 22 ozs.

★DIAMOND EDGE

	Per Dozen
No. 4S103ST—Patent Stag Handle	$22.00
No. 4S103P —Pearl Handle	40 00

Half Dozen in a Box

★EMPIRE

	Per Dozen
No. 4E103ST—Patent Stag Handle	$22.00
No. 4E103P —Pearl Handle	40.00

Length 3¼ inches; Uncapped; One Large Spear, Two Pens and One File Blade; Half Crocus Polished and Etched; German Silver Lining; Hand Milled; Weight per Dozen 16 ozs.

★DIAMOND EDGE

	Per Dozen
No. 4S97P—Pearl Handle	$42.00

Half Dozen in a Box

★EMPIRE

	Per Dozen
No. 4E97P—Pearl Handle	$42.00

Length 3⅝ inches; Uncapped; One Large Congress, Two Pens and One File Blade; Full Crocus Polished and Etched; German Silver Lining; Hand Milled; German Silver Shield; Weight per Dozen 20 ozs.

★DIAMOND EDGE

	Per Dozen
No. 4S140½P—Pearl Handle	$50.00

Half Dozen in a Box

★EMPIRE

	Per Dozen
No.4E140½P—Pearl Handle	$54.00

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POCKET KNIVES

EMPIRE

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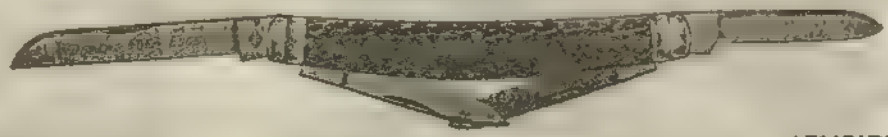
FOUR BLADE PENS

★DIAMOND EDGE

Congress Pattern; Length 3¼ inches; German Silver Bolsters; One Large Congress, Two Small Pens and One File Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 17 ozs.

No. 4S290½P—Pearl Handle ..... Per Dozen **$26 00**

Half Dozen in a Box



Congress Pattern; Length 3 inches; Polished Steel Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade; Glazed Blades; Brass Lining; Weight per Dozen 13 ozs.

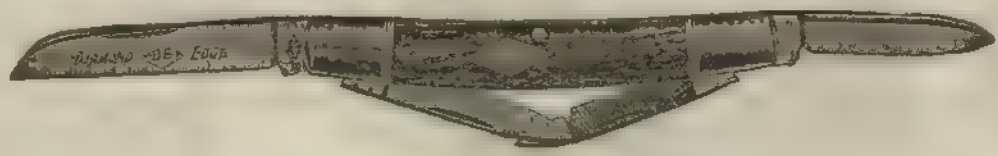
★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 4S66½ST—Patent Stag Handle	$18.00	No. 4E66½ST—Patent Stag Handle	$18.00

Half Dozen in a Box

Congress Pattern; Length 3⅜ inches; Polished Steel Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 20 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 4S15½P—Pearl Handle	$32.60	No. 4E15½P—Pearl Handle	$30.00

Half Dozen in a Box



Congress Pattern; Length 3⅜ inches; German Silver Bolsters; One Large Congress, Two Small Pens and One File Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 20 ozs.

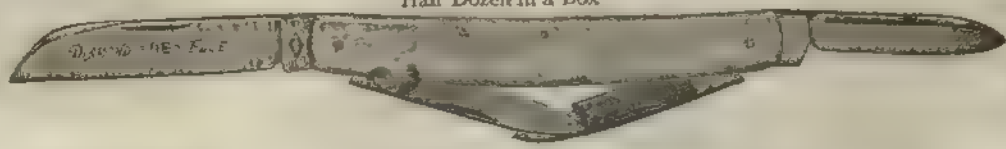
★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 4S148½GST—Genuine Stag Handle	$26.00	No. 4E148½GST—Genuine Stag Handle	$26.00

Half Dozen in a Box

Congress Pattern; Length 3⅜ inches; Polished Steel Rat Tail Bolsters; Two Large Congress and Two Small Pen Blades; Glazed and Etched; Brass Lining; Weight per Dozen 20 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 4S214½ST—Patent Stag Handle	$21.60	No. 4E214½ST—Patent Stag Handle	$21.60

Half Dozen in a Box



Congress Pattern; Length 3⅜ inches, Uncapped, One Large Congress, Two Small Pens and One File Blade; Full Crocus Polished and Etched; Brass Lining; Weight per Dozen 18 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 4S335½P—Pearl Handle	$42.00	No. 4E335½P—Pearl Handle	$42.00

Half Dozen in a Box

Congress Pattern; Length 3⅜ inches; German Silver Bolsters; One Large Congress, Two Small Pens and One File Blade; Full Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 20 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 4S76½GST Genuine Stag Handle	$28.00	No. 4E76½GST—Genuine Stag Handle	$28.00
No. 4S76½P —Pearl Handle	42.00	No. 4E76½P —Pearl Handle	42.00

Half Dozen in a Box

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EMPIRE

FOUR BLADE PENS

★DIAMOND EDGE

Length 3⅛ inches; German Silver Bolsters; One Large Spear, One Small Clip, One Small Sheep Foot and One Small Coping Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1½ lbs.

No. 4S295ST Patent Stag Handle . . . . . Per Dozen **$20.00**

Half Dozen in a Box

Congress Pattern; Length 3⅜ inches; Polished Steel Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade; Glazed and Etched; Brass Lining; Weight per Dozen 20 ozs.

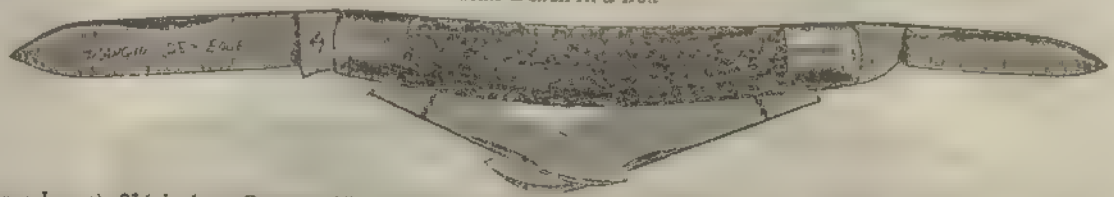
★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 4S221½ST—Patent Stag Handle	**$20.00**	**No. 4E221½ST** Patent Stag Handle	**$20.00**

Half Dozen in a Box

Congress Pattern, Length 3¼ inches; Polished Steel Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 4S75½ST Patent Stag Handle	**$21.60**	**No. 4E75½ST** Patent Stag Handle	**$21.60**

Half Dozen in a Box



Congress Pattern; Length 3¾ inches; German Silver Bolsters; One Large Congress, One Large Spear and Two Small Pen Blades, Half Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2 lbs.

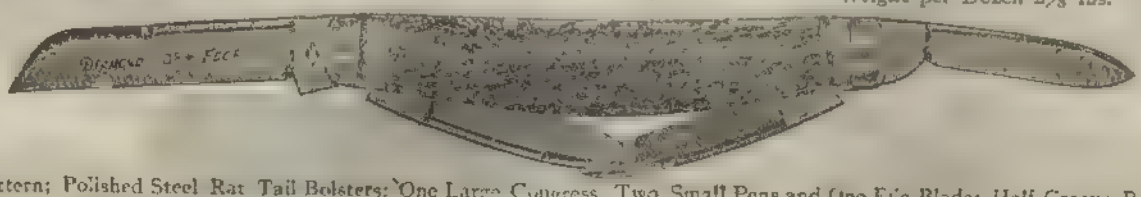
★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 4S316½ST—Patent Stag Handle	**$24.00**	**No. 4E316½ST**—Patent Stag Handle	**$24.00**

Half Dozen in a Box

Congress Pattern; Polished Steel Rat Tail Bolsters; One Large Congress, One Tobacco and Two Small Pen Bladess Half Crocus Polished and Etched; Brass Lining

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 4S189½ST—Patent Stag Handle; Length 4 inches. Weight per Dozen 2⅝ lbs.	**$26.00**	**No. 4E189½ST** Patent Stag Handle; Length 4 inches. Weight per Dozen 2⅝ lbs.	**$26.00**
No. 4S191½ST—Patent Stag Handle; Length 4⅛ inches. Weight per Dozen 2⅝ lbs.	**26.00**	**No. 4E191½ST**—Patent Stag Handle; Length 4⅛ inches. Weight per Dozen 2⅝ lbs.	**26.00**

Half Dozen in a Box



Congress Pattern; Polished Steel Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade; Half Crocus Polished and Etched; Brass Lining.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 4S190½ST—Patent Stag Handle; Length 4 inches. Weight per Dozen 2⅝ lbs.	**$25.00**	**No. 4E190½ST**—Patent Stag Handle; Length 4 inches. Weight per Dozen 2⅝ lbs.	**$25.00**
No. 4S192½ST—Patent Stag Handle, Length 4⅛ inches. Weight per Dozen 2⅝ lbs.	**25.00**	**No. 4E192½ST** Patent Stag Handle, Length 4⅛ inches. Weight per Dozen 2⅝ lbs.	**25.00**

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

THE IMPROVED FAULTLESS SELF-FILLING FOUNTAIN PEN

The Most Perfect Self-Filling Fountain Pen Made — Prices Each

Bisected View Showing the Different Parts

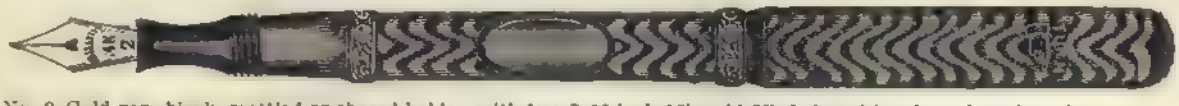
THE FAULTLESS SELF-FILLING FOUNTAIN PENS are of a very durable construction, yet so simple that they never get out of order. The reservoir is filled with ink by one pressure of the finger. They are made by skilled mechanics, from finest grade of material obtainable. The pen points are EXTRA HEAVY 14 KARAT SOLID GOLD tipped with the best GENUINE IRIDIUM that never wear out. All pens are furnished in fine, medium or stub points. Each pen guaranteed to give perfect satisfaction for FIVE YEARS. Every pen guaranteed not to leak, carry in any position as they are equipped with the improved Faultless non-leakable cap.

No 3971 No. 1 Gold pen, black, mottled or chased holder, each $2 75
No 3972 No. 2 Gold pen, black or mottled holder, each 3 35
No 3973 No. 3 Gold pen, black or mottled holder, each 4 00

No 3974 No. 4 Gold pen, fut chased holder, black or mottled, each $4 75
No 3975 No. 5 Gold pen, black or mottled holder, each 5 35
No 3976 No. 6 Gold pen, black or mottled holder, each 6 00
No 3977 No. 7 Gold pen, black or mottled holder, each 6 75
No 3978 No. 8 Gold pen, black or mottled holder, each 7 35

No 3979 No. 2 Gold pen, black, mottled or chased holder, with a ¾-inch 18k gold filled chased band on cap, each $4 00
No 3980 No. 3 Gold pen, black, mottled or chased holder, with a ¾-inch 18k gold filled chased band on cap, each 4 75
No 3981 No. 4 Gold pen, black, mottled or chased holder, with a ¾-inch 18k gold filled chased band on cap, each 5 35

No 3982 No. 2 Gold pen, black, mottled or chased holder, with ¾-inch 18k gold filled plain band on cap, each $4 75
No 3983 No. 3 Gold pen, black, mottled or chased holder, with ¾-inch 18k gold filled plain band on cap, each 5 35
No 3984 No. 4 Gold pen, black, mottled or chased holder, with ¾-inch 18k gold filled plain band on cap, each 6 00



No 3985 No. 2 Gold pen, black, mottled or chased holder, with two 3/16-inch 18k gold filled chased bands on barrel, each $4 00
No 3986 No. 3 Gold pen, black, mottled or chased holder, with two 3/16-inch 18k gold filled chased bands on barrel, each 4 75
No 3987 No. 4 Gold pen, black, mottled or chased holder, with two 3/16-inch 18k gold filled chased bands on barrel, each 5 35

No 3988 No. 2 Gold pen, black, mottled or chased holder, with two ¾-inch 18k gold filled chased bands on barrel, each $4 75
No 3989 No. 3 Gold pen, black, mottled or chased holder, with two ¾-inch 18k gold filled chased bands on barrel, each 5 35
No. 3990 No. 4 Gold pen, black, mottled or chased holder, with two ¾-inch 18k gold filled chased bands on barrel, each 6 00

No. 3991 No. 2 Gold pen, with 18k gold filled flat filigree, each $3 00
No. 3992 No. 3 Gold pen, with 18k gold filled flat filigree, each 3 75
No 3993 No. 4 Gold pen, with 18k gold filled flat filigree, each 4 35

No 3994 No. 3 Gold pen, with 18k gold filled hand embossed florentine filigree, each $10 75

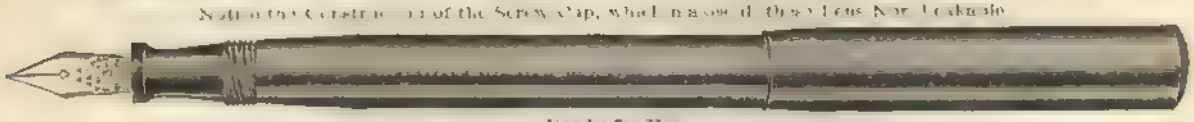
SHORT HOLDERS

No 3995 No. 2 Gold pen, black, mottled or chased holder, each $3 35
No 3996 No. 3 Gold pen, black, mottled or chased holder, each 4 00
No 3997 No. 4 Gold pen, black, mottled or chased holder, each 4 75

No. 3998 No. 2 Gold pen, with 18k gold filled plain, full mounting, with ring for chain, each $10 75
No. 3999 No. 3 Gold pen, with 18k gold filled plain, full mounting, with ring for chain, each 11 35
No. 4000 No. 4 Gold pen, with 18k gold filled plain, full mounting, with ring for chain, each 12 00

A. A. WATERMAN & COMPANY, CHICAGO SAFETY AUTOMATIC SELF-FILLING FOUNTAIN PENS

Notice the Construction of the Screw Cap, which makes it Pen Tight, Non Leakable



Ready for Use

PLAIN BLACK CHASED BLACK OR MOTTLED HOLDERS

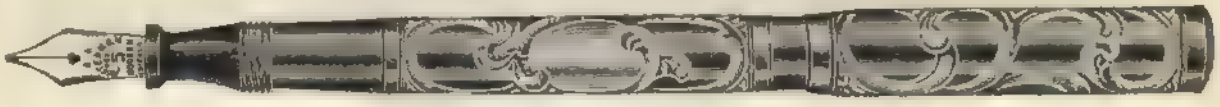
No. 4001	Fitted with No 2 gold pen, fine, medium or coarse, each	$4 75	No. 4004	Fitted with No 5 gold pen, fine, medium or coarse, each	$ 9 35
No. 4002	Fitted with No 3 gold pen, fine, medium or coarse, each	6 65	No. 4005	Fitted with No 6 gold pen, fine, medium or coarse, each	11 15
No. 4003	Fitted with No 4 gold pen, fine, medium or coarse, each	7 50	No. 4006	Fitted with No 7 gold pen, fine, medium or coarse, each	13 00

WITH ¾-INCH GOLD FILLED BAND, CHASED OR PLAIN HOLDERS

No. 4007	Fitted with No 2 14k solid gold pen, with ¾-inch chased or plain band, each	$ 6 55
No. 4008	Fitted with No 3 14k solid gold pen, with ¾-inch chased or plain band, each	8 35
No. 4009	Fitted with No 4 14k solid gold pen, with ¾-inch chased or plain band, each	9 35
No. 4010	Fitted with No. 6 14k solid gold pen, with ¾-inch chased or plain band, each	13 00

WITH ¾-INCH GOLD FILLED BAND, CHASED OR PLAIN HOLDERS

No. 4011	Fitted with No 2 14k solid gold pen, with ¾-inch chased or plain band, each	$ 7 40
No. 4012	Fitted with No 4 14k solid gold pen, with ¾-inch chased or plain band, each	10 20
No. 4013	Fitted with No 6 14k solid gold pen, with ¾-inch chased or plain band, each	13 90



Complete pen with 18k gold filled filigree

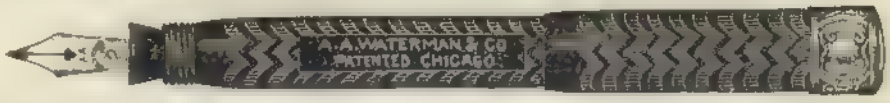
No. 4014	Fitted with No. 5 14k solid gold pen, full mounted as per cut, each	$18.00
No. 4015	Fitted with No 3 14k solid gold pen, full mounted as per cut, each	16 20

Complete pen with 18k gold filled full mounting

No. 4016	Fitted with No 3 14k solid gold pen, full mounted as above, each	$19 90
No. 4017	Fitted with No. 5 14k solid gold pen, full mounted as above, each	23 50

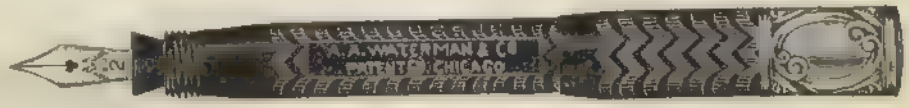
SHORT HOLDERS

No. 4018	Fitted with No 2 14k solid gold pen, in plain black, mottled or chased holder, each	$4 70
No. 4019	Fitted with No 3 14k solid gold pen, in plain black, mottled or chased holder, each	6 65
No. 4020	Fitted with No 4 14k solid gold pen, in plain black, mottled or chased holder, each	7 40
No. 4021	Fitted with No 5 14k solid gold pen, in plain black, mottled or chased holder, each	9 35



FITTED WITH 18-K GOLD FILLED BANDS, CHASED OR PLAIN, ¾ INCH WIDE—SHORT HOLDERS

No. 4022	Fitted with No. 2 14k solid gold pen, plain or chased band, each	$ 6 55
No. 4023	Fitted with No 3 14k solid gold pen, plain or chased band, each	8 35
No. 4024	Fitted with No. 4 14k solid gold pen, plain or chased band, each	9 35
No. 4025	Fitted with No. 6 14k solid gold pen, plain or chased band, each.	13 00



FITTED WITH 18K GOLD FILLED BANDS, CHASED OR PLAIN, ¾-INCH WIDE—SHORT HOLDERS

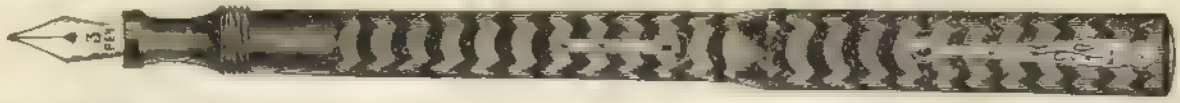
No. 4026	Fitted with No. 2 14k solid gold pen, plain or chased band, each	$ 7 40
No. 4027	Fitted with No 3 14k solid gold pen, plain or chased band, each	9 35
No. 4028	Fitted with No. 4 14k solid gold pen, plain or chased band, each	10 20
No. 4029	Fitted with No. 6 14k solid gold pen, plain or chased band, each	13 00

No. 4030	Fitted with No. 2 14k solid gold pen, 18k rolled gold plate chased mounting, each	$16.20
No. 4031	Fitted with No. 3 14k solid gold pen, 18k rolled gold plate chased mounting, each	21.00

IHRIG'S QUALITY SELF-FILLING NON-LEAKABLE PENS

The newest self-filling, non-leakable Fountain Pen made. Can be carried in any position without leaking. There is no time limit on these pens, the [illegible]

To fill the pen, [illegible] with [illegible] ink well. One press of the lever fills the pen.



No. 4032 No. 2 14k solid gold pen, chased or black holder, each $3.20
No. 4033 No. 3 14k solid gold pen, chased or black holder, each 4.00
No. 4034 No. 4 14k solid gold pen, chased or black holder, each 4.80
No. 4035 No. 6 14k solid gold pen, chased or black holder, extra large, each 8.00

IHRIG'S "SHORTY." ILLUSTRATION ACTUAL SIZE.

No. 4036 No. 2 14k solid gold pen, chased or black holder, each $3.20
No. 4037 No. 3 14k solid gold pen, chased or black holder, each 4 00
No. 4038 No. 4 14k solid gold pen, chased or black holder, each 4 80
No. 4039 No. 6 14k solid gold pen, chased or black holder, extra large, each 8 00

No. 4040 No. 2 14k solid gold pen, chased holder, 18k gold filled band on cap, each $4 00
No. 4041 No. 3 14k solid gold pen, chased holder 18k gold filled band on cap, each 4 80
No. 4042 No. 4 14k solid gold pen, chased holder, 18k gold filled band on cap, each 5 60
No. 4043 No. 6 14k solid gold pen, chased holder, 18k gold filled band on cap, each 8 80

Any of the above fitted with patented German silver clip 50c each extra

THE "JACKSON" SELF-FILLING AND NON-LEAKABLE FOUNTAIN PENS

To fill insert a small coin in slot on side of barrel, release pressure and the pen is filled

No. 4044 No. 1 gold pen, chased barrel and cap, each $2 00
No. 4045 No. 2 gold pen, chased barrel and cap, each 2 60
No. 4046 No. 3 gold pen, chased barrel and cap, each 2 95
No. 4047 No. 4 gold pen, chased barrel and cap, each 3 30

No. 4048 No. 1 gold pen, chased barrel and cap, 18k gold filled band on cap, each $2 75
No. 4049 No. 2 gold pen, chased barrel and cap, 18k gold filled band on cap, each 3 30
No. 4050 No. 3 gold pen, chased barrel and cap, 18k gold filled band on cap, each 3 70
No. 4051 No. 4 gold pen, chased barrel and cap, 18k gold filled band on cap, each 4 05

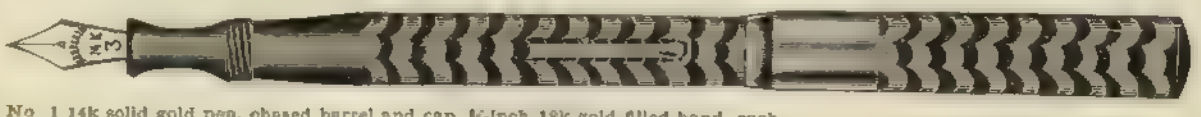
No. 4052 No. 1 gold pen, chased barrel and cap, 2 18k gold filled bands on barrel, each $4 45
No. 4053 No. 2 gold pen, chased barrel and cap, 2 18k gold filled bands on barrel, each 4 05
No. 4054 No. 3 gold pen, chased barrel and cap, 2 18k gold filled bands on barrel, each 4 40

THE BEST HIGH GRADE MODERATE PRICED SELF-FILLING FOUNTAIN PENS

They are lever filled pens, filled by one press of the lever. They are also non-leakable. Each pen guaranteed for two years

No. 4055 No. 1 14k solid gold pen, chased barrel and cap, each $2 00
No. 4056 No. 2 14k solid gold pen, chased barrel and cap, each 2.70
No. 4057 No. 3 14k solid gold pen, chased barrel and cap, each 3 35
No. 4058 No. 4 14k solid gold pen, chased barrel and cap, each 4 00

No. 4059 No. 1 14k solid gold pen, chased barrel and cap, ¼-inch 18k gold filled band, each $2 70
No. 4060 No. 2 14k solid gold pen, chased barrel and cap, ¼-inch 18k gold filled band, each 3 35
No. 4061 No. 3 14k solid gold pen, chased barrel and cap, ¼-inch 18k gold filled band, each 4 00

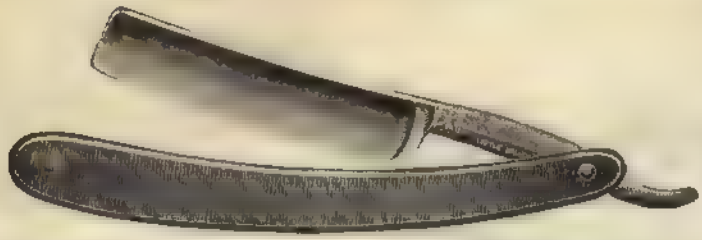


No. 4062 No. 1 14k solid gold pen, chased barrel and cap, ¼-inch 18k gold filled band, each $3 35
No. 4063 No. 2 14k solid gold pen, chased barrel and cap, ¼-inch 18k gold filled band, each 4 00
No. 4064 No. 3 14k solid gold pen, chased barrel and cap, ¼-inch 18k gold filled band, each 4 70

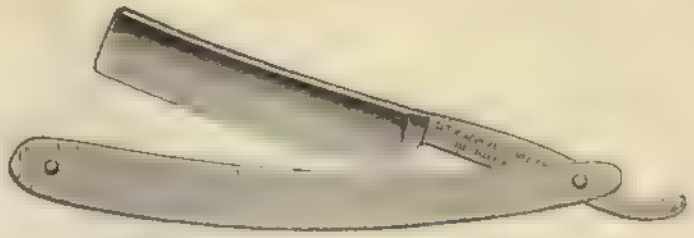
FINE HIGH GRADE RAZORS

Manufactured and Fully Guaranteed by The Geo. W. Korn Razor Mfg. Co. (World's Celebrated Manufacturers of High Grade Razors), Little Valley, N. Y. Best Quality Steel Blades. Well Constructed. Very Durable and Highly Polished.

Illustrations are Reduced Size. **Prices Each.**

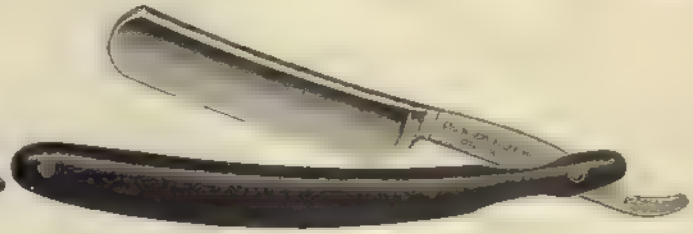


This razor is finely ground and has a glazed finish. The blade is fitted with a flat back rubber handle. For a razor at a medium price this one is unsurpassed.
No. 1051 Each..... $3 15



This razor is one which will appeal to most everyone. The blade is finely ground and has a full mirror finish. The handle is flat black celluloid and will not warp or break.
No 1411 Each..... $3 25

This razor is made for the man of moderate taste. It has a finely ground blade with an excellent glazed finish. It is fitted with a celluloid handle representing tortoise shell. A staple article and a good seller.
No 1013 Each..... $3 35



For men who desire a round point razor we recommend this one. It has a well ground blade with oval tang. The gump on both the upper and under sides of the tang prevents the razor from slipping in the fingers. The handle is black oval rubber with patent fit-the-finger indents. It is one of the most convenient razors to use that we offer.
No 1005 Each..... $3 80

Every man can be proud to possess such a razor and it would make a [illegible] This blade is full mirror polished and has an oval tang with both upper and under gimps. The handle is of golden shell and will not warp or break.
No. 1432 Each..... $4.00

For beauty and quality this razor is unsurpassed. It is made from the very best quality [illegible] The blade is fitted with a [illegible] handle.
No 1000 Each..... $4.25

Extra full [illegible] razor. The blade has a fine glazed finish and is fitted with an ivoroid handle. An excellent razor in every respect.
No. 1150 Each..... $4 50

The man who buys this razor orders his razor troubles. It is made [illegible] built on its excellent quality. The blade is extra-full [illegible] has a beautiful glazed finish. It is fitted with a [illegible] handle which is very popular. The big sale of this razor allows us to name a price unusually low for a razor of this quality.
No. 1151 [illegible] $4 75

This razor is one of the finest ground and best finished razors that we offer. It is extra-full concaved and has a beautiful blue glazed finish far surpassing any other glazed finish. The tang is oval and has two small straps on each side which greatly improves the appearance to the razor. The handle is oval rubber.
No. 7004 Each..... $5.00

This razor is a novelty to the buyer of high class merchandise. Its [illegible] to the person desiring to make an out of the ordinary present and its excellent shaving qualities are appreciated by the user.
The blade is finely ground and has a beautiful mirror polish finish. The tang is covered with tortoise shell celluloid which not only prevents the tang from rusting but adds greatly to its appearance. The handle matches the tang.
No. 6467 Each..... $5 50

"UNIVERSAL" (The Guarantee of Highest Q

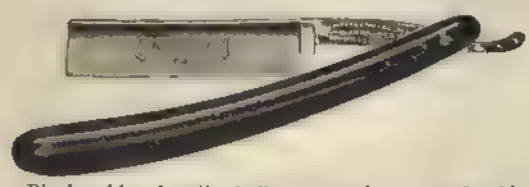
Manufactured by Landers, Frary & Clark, Master Cutlers for over half a Century

FINEST QUALITY ENGLISH HIGH CARBON STEEL, OF UNIFORM TEMPER, EXACT GRINDING, HA

AND SHARPENED, EACH RAZOR IN PERFECT SHAVING CONDITION. FULLY WARRANTED.

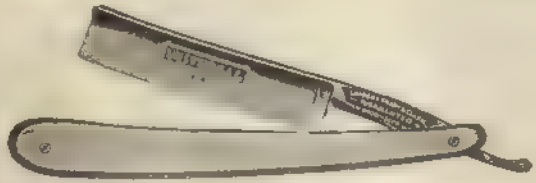
Each Razor packed in individual container; one-half dozen in a cardboard box.

"Universal" Jr. Safety, black flat rubber handle, three-quarter concave. Polished and etched blade—⅝ in. wide. German silver guard. This razor will close when the guard is on the blade.
No. 77 Each.. .. .$3.10



Black rubber handle, hollow ground, square shoulder. Polished and etched. Square and hollow point. Blade ⅝ in. wide.
No. 222 Each $2.10

Black rubber handle. Full hollow ground, polished and etched. Square point. Blade ⅝ in. wide. Round and hollow point. Blade ⅝ in. wide.
No. 344 Each $3.10



Ivory white flat handle. Three-quarters hollow ground. Crocus polished. Gold etched. Square or round point. Blade ⅝ in. wide.
No. 205 Each .. . $3.35

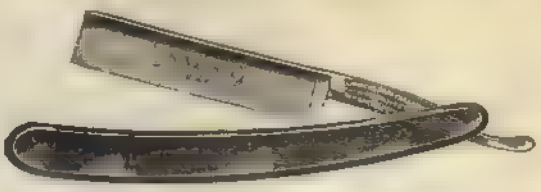
Tortoise oval celluloid handle extra full hollow ground. Crocus polished. Gold etched. Barbers' point. Blade ⅝ in. wide.
No. 347 Each $4.75

rubber handle. Full hollow ground. Pearl d, gold etching. Square point. Blade ⅝ in.
No. 354 Each $5.35

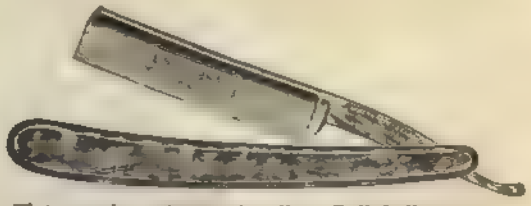
Ivoroy white oval handle. Full hollow ground. Crocus polished. Gold etched. Square point. Blade ⅝ in. wide.
No. 536 Each...$4.70

Black rubber oval handle. Full hollow ground. Crocus pol-
⅝ in. wid $ 75

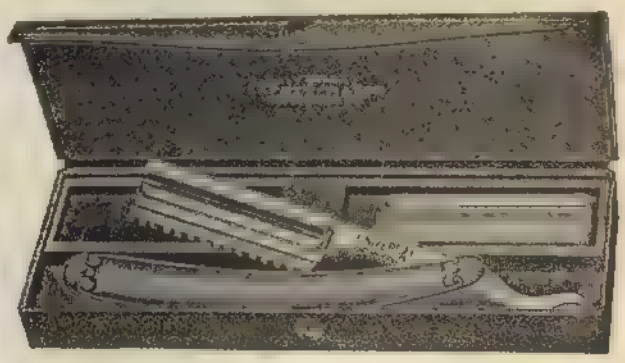
Black rubber handle. Hollow ground. Polished and etched. Square or round point. Bla ⅝ in. wide.
No. 211 Each.....$1.75



Red Celluloid Handle. Hollow ground, square shoulder, polished and etched. Square or round point. Blade ⅝ in. wide.
No. 228 Each $2.40



Flat tortoise celluloid handle. Full hollow ground Gun metal tang and back. Polished and gold etched Barbers' point. Blade ⅝ in. wide.
No. 348 Each.....$3.85

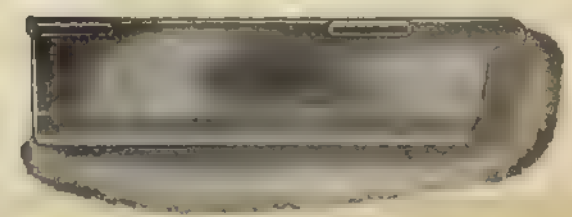


"Universal" Safety Razor

Shaves down as ordinary razor. With the guard on it is impossible to cut yourself. Strop it the same as an ordinary razor. Blades are of finest quality Chrome steel.

No. 60 Ivoroy Antique handle razor. Guard and extra blade in silk lined Russia leatherette case. Each $2.50

No. 30 Ivoroy Black Enamel razor. Guard and extra blade in silk lined Russian cat-skin case. Each 2.50

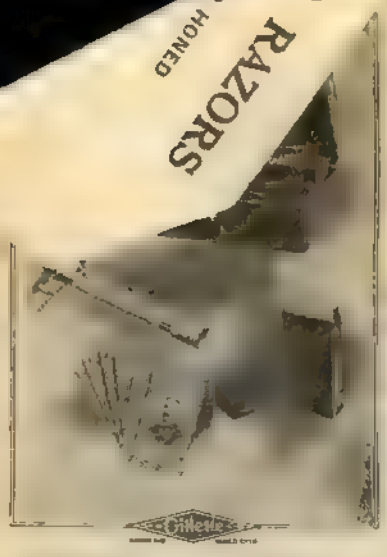


Full Size Cut of Blade

Extra Blades only. Per dozen..... $ 1.60
Extra Razor Strops. Per dozen... 14.80

FAMOUS GILLETTE SAFETY RAZORS

Illustrations are reduced size. Prices Per Set



STANDARD RAZOR
In Fine Case, Velvet [illegible]
No. 400 [illegible] Silver Plated [illegible] $10.45

Extra Blades. Package of 12 double edged (24 shaving edges) No. 10 Per pkg. $2.13

ART SET RAZOR
French Ivory [illegible] Lined [illegible] tastefully modeled in the use of refined aesthetic, especially desirable for gift purposes.
No. [illegible] Triple Silver Plated Razor $10.45

Extra Blades. Package of 12 double edged (24 shaving edges) No. 10 Per pkg. $2.13

BULLDOG RAZOR
Leather [illegible] heavy
No. 2 [illegible] Silver [illegible] Razor $10.45

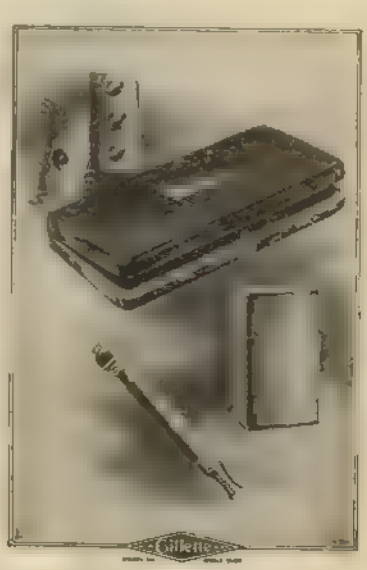
ALL SETS CONTAIN 12 DOUBLE EDGE GILLETTE BLADES (24 SHAVING EDGES)

COMBINATION SET
Leather [illegible] Velvet Lined
No. 401 [illegible] Silver Plated Razor, 12 [illegible] Blades [illegible] $12.50

Extra Blades. Package of 12 double edged (24 shaving edges) No. 10 Per pkg. $2.13

POCKET EDITION
Plain Case, Velvet Lined.
No. 500 Triple Silver Plated Case and Razor $10.45
No. 500B Gold Plated Case and Gold Plated Razor 12.50
Above sets contain 12 double edged Gillette blades (24 shaving edges) and [illegible] Razor

Extra Blades. Package of 12 double edged (12 shaving edges) No. 10 Per pkg. $2.13



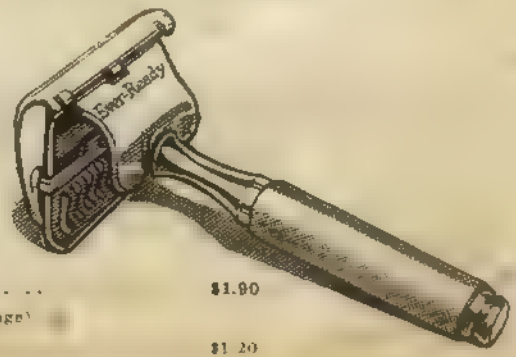
POCKET EDITION
[illegible] Case
No. 501 [illegible] Razor $10.45
No. 501B [illegible] Case and Gold Plated Razor 12.50
[illegible] Blades (24 shaving edges) in metal box [illegible] to match Razor.

THE PRACTICAL AND USEFUL

EVER READY SAFETY RAZOR SET

WITH 12 "RADIO" BLADES

Safety Razor with 12 Radio Blades in Compact Leather Case



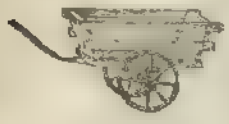
No. 20 Complete set. $1.90

Extra "Radio" blades (ten blades in package)

No. 30 Per package.... $1.20

GIBB'S TOYS

Strongly Made and Durable; Will Not get Out of Order; The Wheels, Legs and All Moving Parts are Metal.



GIBB'S FAIRY CART

Strongly Made and Beautifully Finished; Bright Red Wood Body; Aluminum Bronzed Iron Wheels; 24 inch Twisted Wire Handle.

Per Dozen

No. 311—4x6 inches; Weight per Dozen, 6½ lbs..... **$4.00**

One Dozen in a Package

GIBB'S DAISY CART

All Metal Wagon; Strongly Constructed and Handsomely Finished in Red and Yellow; Aluminum Bronzed Iron Wheels; 24-inch Twisted Wire Handle.

Per Dozen

No. 310—3½x5¼ inches; Weight per Dozen, 6 lbs..... **$3.60**

One Dozen in a Package

GIBB'S CUBAN CART

Wood Body, Finished in Bright Red; with Yellow Enameled Iron Wheels; White Cloth Top; Beautifully Lithographed Horse on Flat Wood Shape, with Animated Metal Legs, Geared to Axle of Cart.

Per Dozen

No. 323—14x7½ inches; Weight per Dozen, 11 lbs..... **$9.00**

Half Dozen in a Package

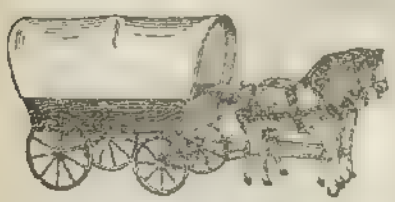
GIBB'S U. S. MAIL CART

An Exact Reproduction of Uncle Sam's Mail Carts. A Large and Durable Toy. The Cart, Legs, Wheels and All Moving Parts are Metal. Ornamented in Bright Handsome Colors. Beautifully Lithographed Wood Horse, with Animated Metal Legs Geared with Axle of Cart.

Per Dozen

No. 319—12x7 inches; Weight per Dozen, 10 lbs..... **$8.00**

Half Dozen in a Package



GIBB'S GYPSY WAGON

Gypsy Wagon; Red Wood and Metal Body; Yellow Iron Wheels; White Cloth Top; 2 Handsome Lithographed Horses on Wood Shapes, with Metal Animated Legs, Geared to Front Axle.

Per Dozen

No. 329—20x9 inches; Weight per Dozen, 15 lbs.....**$17.00**

One in a Package

GIBB'S FAIRY HAY WAGON

Strongly Made and Beautifully Finished; Bright Red Wood Body; Aluminum Bronzed Iron Wheels; 24-inch Twisted Wire Handle.

Per Dozen

No. 318—6x10 inches; Weight per Dozen, 11 lbs..... **$7.50**

One Dozen in a Package

GIBB'S TOYS

Strongly Made and Durable; Will Not Get Out of Order; the Wheels, Legs and All Moving Parts are Metal.

GIBB'S PONY RACER

A Big Value and a Good Seller.

Per Dozen

No. 312—7x4 inches; Weight per Dozen, 2½ lbs..... **$3.80**

One Dozen in a Package

GIBB'S PONY CHARIOT

Very Life-like and Well Made; Attractively Ornamented in Seven Colors, with Gold-Bronze Wheels.

Per Dozen

No. 308—7¼x3¾ inches; Weight per Dozen, 3¼ lbs..... **$4.00**

One Dozen in a Package

GIBB'S PONY CART

An Elegant Toy that Appeals as Strongly to Girls as to Boys—a Real Stylish and Aristocratic Pony Cart in which to Ride Their Dolls.

When Drawn Along the Pony Walks as Natural as Life. Strongly Made; Cannot Get Out of Order. The Cart, Legs, Wheels and All Moving Parts are Metal. Beautifully Ornamented in Eight Bright Colors.

Per Dozen

No. 325—13¾x5¾ inches; Weight per Dozen, 11 lbs..... **$9.00**

Half Dozen in a Package

GIBB'S DAISY EXPRESS

Express Wagon; Bright Red and Yellow Body; Wood Bottom; Steel Sides; Aluminum Bronzed Iron Wheels; 24 inch Twisted Wire Handle.

Per Dozen

No. 317—9¼x4¼ inches; Weight per Dozen, 14 lbs..... **$8.40**

One Dozen in a Package

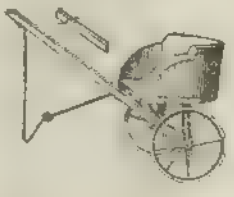
GIBB'S YANKEE DUMP CART

Yankee Dump Cart; Bright Red Body; Aluminum Bronzed Wheels; Handsome Lithographed Large Horse on Flat Wood Shape, with Metal Animated Legs, Geared to Axle; When Steel Lever at Front of Cart is Released, the Cart is Automatically Dumped.

Per Dozen

No. 328—19¼x8¼ inches; Weight per Dozen, 18 lbs.....**$16.00**

One in a Package



GIBB'S DOLL SULKY

Doll Sulky; Bright Red and Yellow Body, Striped with Gold; Aluminum Bronzed Iron Wheels; 24-inch Wood Tongue, Stained Green; Black Japanned Steel Rest.

Per Dozen

No. 322—4¾x4¾ inches; Weight per Dozen, 10 lbs..... **$7.70**

Half Dozen in a Package

GIBB'S TOYS

Strongly Made and Durable; Will not Get Out of Order, the Wheels, Legs and All Moving Parts are Metal.

GIBB'S
PACING BOB

Bright Red Cart; Same as No. 311, with Handsome Lithographed Horse on Flat Wood Shape, with Metal Animated Legs, Geared to Axle.

Per Dozen
No. 315—13½x6½ inches; Weight per Dozen, 8 lbs..... **$8.00**
One Dozen in a Package

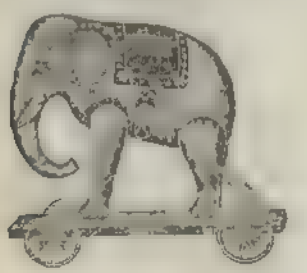
GIBB'S
GRAY BEAUTY PACERS

Bright Red Wagon; Same as No. 318, with Handsome Team of Horses Lithographed on Flat Wood Shapes; with Metal Animated Legs, Geared to Front Axles.

Per Dozen
No. 327—19x5¾ inches; Weight per Dozen, 18 lbs.....**$16.00**
Half Dozen in a Package

GIBB'S
PERFORMING JUMBO

This Wonderful Performing Elephant Can be Placed in a Variety of Attitudes, Furnishing an endless Amount of Amusement.

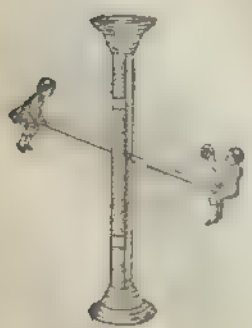


A Big and Attractive 50-cent Toy, Well Made and Indestructible.

Handsomely Ornamented in Seven Brilliant Colors.

Children Never Tire Playing with Performing Jumbo.

Per Dozen
No. 316—Length 10 inches; Height 12½ inches; Weight Each, 1 lb.; Weight per Dozen, 12¾ lbs. **$8.40**
Half Dozen in a Package



GIBB'S
REVERSING
NEVER-STOP SEE-SAW

A Toy with Lots of Action that Will Add Life to Any Counter Display. The Smallest Child Can Operate It.

When Children Have See-sawed to the Bottom, Reverse Toy, which Sets it in Motion as Before.

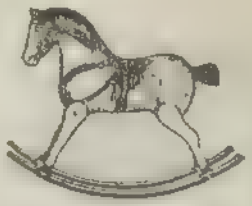
Beautifully Hand-painted in Ten Bright Colors, Brilliant in Effect and Very Attractive.

Per Dozen
No. 324—14½ inches High; Weight per Dozen, 6 lbs..... **$9.50**

One Dozen in a Package

GIBB'S TOYS

Strongly Made and Durable, Will Not Get Out of Order; The Wheels Legs and All Moving Parts are Metal.



GIBB'S
HOBBY HORSE

A Clever, Appealing Toy in Bright Colors; Handsome Lithographed Horse on Flat Wood Shape, Mounted on Bright Red Wooden Rockers.

Per Dozen
No. 314—6½x6¼ inches; Weight per Dozen, 3 lbs..... **$3.60**
One Dozen in a Package

GIBB'S
BUTTERFLY PUSH TOY

Made of Metal and Indestructible.

Gorgeously Lithographed Butterfly, Measures 9 inches from Tip to Tip. 24-inch Wood Handle.

When Pushed Along the Wings Flap, Natural as Life, at the Same Time Producing a Buzzing Noise.

Beautifully Illuminated in Ten Bright Colors.

Per Dozen
No. 320—9 inches Wide; Weight per Dozen, 7 lbs..... **$7.50**
One Dozen in a Package

GIBB'S
DERBY RIDER PUSH TOY

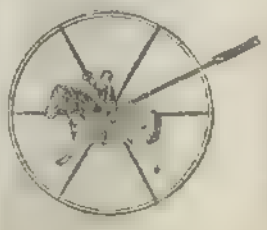
Very Attractive Push Toy, Handsomely Lithographed Horse on Flat Wood Shape with Rubber Covered Rider, Animated Metal Legs, Geared to Axle; Large Aluminum Bronzed Iron Wheels; 24-inch Wood Handle.

Per Dozen
No. 321—9x7½ inches; Weight per Dozen, 9 lbs.. ..... **$8.00**
One Dozen in a Package

GIBB'S
PERFORMING BOB

Handsomely Lithographed Horse on Flat Wood Shape; with Movable Metal Legs; Balanced on Wire Fastened to Stained Wood Base in Such Manner that Horse Can Be Made to Do Many Amusing Circus-Like Stunts.

Per Dozen
No. 313—Length 8 inches; Extreme Height 9¼ inches; Weight per Dozen, 4 lbs..... ..... **$2.80**
One Dozen in a Package



GIBB'S
GALLOPING PONY PUSH TOY

Brilliant Showy Toy; Bright Red Wheels, 12½ inches in Diameter with Bright Wire Spokes; in the Center is Suspended a Handsomely Lithographed Pony, Lithographed on Flat Wood Shape, with Metal Rider Enameled in Brilliant Colors; 27-inch Wood Handle. As Toy is Pushed Along the Floor, Pony and Rider Move in Graceful Gallop.

Per Dozen
No. 326—Weight per Dozen, [illegible] **$9.20**

Half Dozen in a Package

SPINNING TOPS

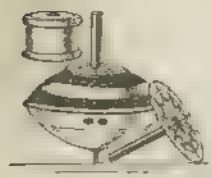
GIBBS

Spins on Either End; All Metal; Enameled Red, White and Blue; with Wood Spinner.

Per Dozen
No. 301—Diameter 1⅝ inches; Weight per Dozen 2 lbs. **$1 00**
Two Dozen in a Box

All Metal; Enameled Yellow, Red and Blue, with Wood Spinner.

Per Dozen
No. 302—Diameter 1⅝ inches; Weight per Dozen 2 lbs. **$1 00**
Two Dozen in a Box



MUSICAL TOP

All Metal; Enameled Red, White and Blue, With Yellow Bottom; Metal Spring Winder and Spinner; the Whirl About is an Added Attraction and Revolves Around the Top While Spinning, in a Mysterious Manner.

Per Dozen
No. 303—Diameter 3 inches; Weight per Dozen 2½ lbs..... **$2 50**
One Dozen in a Box

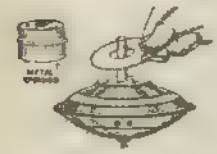
All Metal; Enameled Bright Green, White and Red, with Yellow Bottom; Metal Spring Winder and Spinner; Spins, Hums and Dances.

Per Dozen
No. 304—Diameter 3 inches; Weight per Dozen 2½ lbs..... **$3 00**
One Dozen in a Box

HUMMING TOP

All Metal; Enameled Red, White and Blue, with Yellow Base; Metal Spring Winder and Spinner.

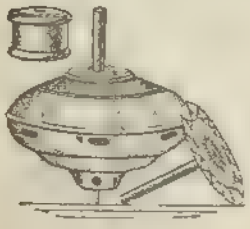
Per Dozen
No. 305—Diameter 3 inches; Weight per Dozen 2½ lbs. **$2 40**
One Dozen in a Box



MUSICAL TOP

All Metal; Enameled, Blue and White with Yellow Bottom; Metal Spring Winder and Spinner. Five Colored Discs Furnished with Top and When Placed on Top While Spinning, Produce a Variety of Beautiful Color Effects.

Per Dozen
No. 306—Diameter 3 inches, Weight per Dozen 2½ lbs..... **$2 50**
One Dozen in a Box



DIXIE DANCING MUSICAL TOP
Spinning Tops

Musical Coral Wreath Top; All Metal; Enameled Red, White and Blue, with Yellow Bottom; Metal Spring Winder and Spinner; the Whirl-About is an Added Attraction and Revolves Around the Top when Spinning, in Mysterious Manner.

Per Dozen
No. 307—Diameter 4 inches; Weight per Dozen 4 lbs..... **$3.00**

Half Dozen in a Handsome Display Box

PRESSED METAL TOYS

SULKY

Doll Sulky; Stamped Steel; Enameled in Bright Colors, with 18 inch Wood Handle

Per Dozen
No. 1431—5x4 inches; Weight per Dozen 5 lbs. **$4 00**
One Dozen in a Package

STEEL WAGON

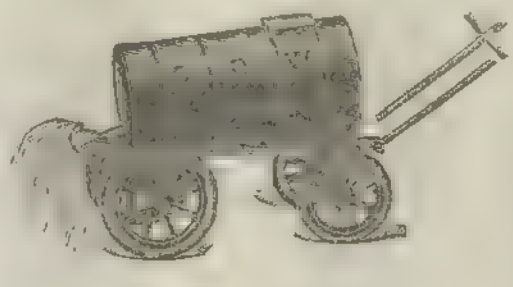
Wagon; Stamped Steel; Enameled in Bright Colors; 19 inch Flat Steel Handle.

Per Dozen
No. 1432—Length 6½ inches; Height 3¾ inches; Weight per Dozen 5½ lbs. **$3 80**
One Dozen in a Package

WHEEL TOYS

Merry Go Round Circus Toy; All Steel; Gorgeously Enameled and Decorated; Geared to Axle so that when Wheels Run, Gaudy Canopy or Parasol and the Three Gay Riders Revolve; a Highly Animated Brilliant Toy.

Per Dozen
No. 1433—9½x5½ inches; Weight per Dozen 5 lbs..... **$5 00**
Half Dozen in a Package



Water Wagon; All Steel; Enameled and Decorated in Brilliant Colors; Actually Sprinkles when Tank is Filled; Hinged Trap Door on Top for Filling Tank; Removable Sprinkler so Cork Can be Inserted in Pipe to Preserve Water; 23 inch Round Metal Handle.

Per Dozen
No. 1372—Length 8½ inches; Height 6 Inches; Weight per Dozen 6 lbs. **$5 00**
One Dozen in a Package

CART

Pressed Metal; Gray Horse with Red Harness; Cart Dark Green Outside, Red Inside; Red Wheels.

Per Dozen
No. 2035—11 inches long; 4 inches idew; 4½ inches high, Weight per Dozen 2¼ lbs..... **$2 40**
One Dozen in a Box

WHEEL TOYS

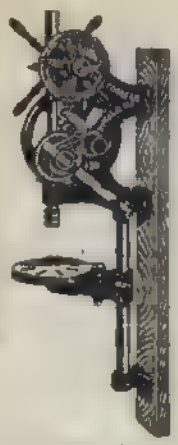
Dump Carts; Stamped Steel; Brilliantly Enameled and Decorated. Extra large Cart with Spring Dumping Release; Shaped Hollow Horse.

Per Dozen
No. 1371—14¾x4 inches; Weight per Dozen 6 lbs..... **$5 00**

Half Dozen in a Package

HAND AND POWER POST DRILLS

BUFFALO



Fitted with "Suregrip" Chuck

Opened or closed by half a turn

Spindle bored for ½ inch Straight shank Drills

Drills 1¼ inch hole to center of 16 inch circle

Run of feed 5½ inches

Run of table 14 inches

This drill embodies the convenient and powerful capstan lever principle for fast boring, reaming and drilling of small and medium size holes. Change to automatic feed or back is obtained in a second by the sliding collar at right of the planetary feed gears.

The shafts and spindles are of polished steel and the bearings bored and reamed in the solid metal of the frame. Carefully fitted gears insure easy, smooth operation without noise or lost motion. The finest radial ball bearings between feed screw and drill spindle relieve 90% of the friction at this vital point. Change of speed obtained by changing crank from front to rear gear or back—fast speed for light work, and slow speed for heavy work.

The table is easily adjusted up or down on shaft, and can also be swung to side

For Hand

No. 130—Without pulleys, weight 140 lbs. .....Each $20 00

For Hand and Power

No. 130A—With 6x2¼ inch, tight and loose pulleys, weight 155 lbs...Each $23 00

Drills 1¼ inch hole to center of 18 inch circle

Run of feed 3½ inches

Run of table 14½ inches

Diam. of Drill Spindle 1¾ inches

Bored to take ½ inch Straight Shank Drills

Furnished on Special order for 41/64 or ⅝ inch Drills

Length over all 46 inches

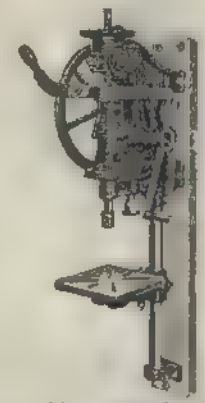
Adjustable table is quickly and easily adjusted to any point of run, the gears mesh perfectly. Shafts and spindles are of steel and run in long journal bearings bored and reamed in the solid metal of the frame. The end thrust of the swiftly revolving drill spindle is balanced on ball bearings. Two speeds, two feeds.

For Hand

No. 98—Without pulleys, weight 160 lbs. Each $25 00

For Hand and Power

No. 98A—With 6 inch tight and loose pulleys, weight 175 lbs. .....Each $29 00



Gears are machine cut and mesh perfectly. Shafts and spindles of polished steel and run in long journal bearings, bored and reamed in the solid metal of the frame

Buffalo ball bearings at end thrust of all swiftly revolving parts. Two speeds; to change speed, shift the collar

Two feeds, automatic and lever, with instant, automatic return of drill spindle Equipped with the "Buffalo Suregrip" chuck.

Wheel holding attachment furnished with each drill. Drills 1½ inch hole to center of 18 inch circle. Run of feed 4½ inches. Run of table 18 inches. Length over all 62 inches Spindle bored for ½ inch straight shank bits. Furnished on special order for 41/64 or ⅝ inch bits.

For Hand

No. 96—Without pulleys, weight 245 lbs. Each $30 00

For Hand and Power

No. 96A—With 8 inch tight and loose pulleys, weight 265 lbs. .....Each $34.00

Large capacity. All shafts and spindles are of steel, cut gears, two speeds, two feeds, ball bearings at end thrust of feed screw, "Suregrip" chuck.

Drills up to 1½ in. hole to center of 22 in. circle. Run of feed 6¼ in. run of table 21 in. bored to take ½ in. straight shank bits. Can be furnished on special order for 41/64 or ⅝ in. bits. Length over all 66 in. Wheel-holding attachment furnished with each drill. Diameter of pulleys 8 in.

For Hand

No. 93—Without pulleys, weight 375 lbs. Each $36 00

For Hand and Power

No. 93A—With 8x3 inch tight and loose pulleys, weight 395 lbs.....Each $40.00

Drills 1½ in hole to center of 21 in. circle. Run of feed 4½ in., run of table 21 in., diameter of drill spindle 1¼ in.; bored to take ½ in. straight shank bits. Can be furnished on special order bored for 41/64 or ⅝ in. bits Length over all 82 in. Wheel holding attachment furnished with each drill

The fly-wheel speed is independent of the spindle, giving full momentum where most needed—on slow, heavy work, where most other drills fail. Adjustable rack, machine cut gears, shafts and spindles are steel, two speeds two feeds, ball bearing

For Hand

No. 94—Without pulleys, weight 260 lbs. Each $40 00

For Hand and Power

No. 94A—With 8x3 inch tight and loose pulleys, weight 280 lbs. .....Each $44 00

Fitted with "Suregrip" chuck. Two speeds of spindle. Automatic feed adjustable to four speeds Quick return of spindle. No turning back of feed wheel after drilling.

Drills 1½ inch hole to center of 24 inch circle. Run of feed 7½ inches. Run of table 20 inches. Spindle bored for ½ in. straight shank drills.

Furnished on special order for 41 64 in. or No. 2 Taper without charge.

Multi-Compound Lever Feed. A 1 inch hole can be drilled with this lever. This feature is obtained by the quick-speed head operated by the four-arm lever. By maintaining a light pressure on the latter, the bit is forced through the metal with maximum speed. One sliding collar is arranged at feed head for changing from lever to automatic feed or back. The other is at lower end of flywheel shaft, for change from slow to fast speed, or back. Length, over all, 72 inches

For Hand

No. 124—Without pulleys, weight 370 lbs .....Each $47 00

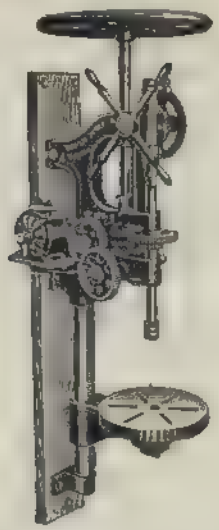
For Hand and Power

No. 124A—With tight and loose pulleys, 8x3 in., weight 390 lbs.....Each $51.00

One in a Crate

HAND AND POWER POST DRILLS

BUFFALO ELECTRIC



All gears are machine cut and fitted with accuracy, resulting in smooth, noiseless operation. The spindle is raised or lowered in an instant by means of the four-arm lever, which effects a great saving of time in boring wood, reaming and drilling holes. A 1 in hole can be drilled with this lever. For larger holes, the finest automatic feed will be found more satisfactory

Fitted with "Suregrip" chuck which locks or releases the bit by turning it half way round by hand

The table is fitted on rack, so that it may be conveniently raised or lowered. Gear-guard and wheel holder furnished with each drill

Chuck is bored for bits with ½ inch straight shank. On special order, also furnished for 41/64 or 5/8 inch without extra charge. Run of feed, 8 inch. Run of table, 20 inch. Drills to center of 24 inch circle. Height, 72 inch.

No. 124E ⅓ H. P.

Capacity, holes up to ⅜ inch in steel. Weight 440 lbs. Voltage 110 or 220

Direct Current .....Each $ 90.00

Alternating Current .... Each 101.00

No. 124E ½ H. P.

Capacity, holes up to 1¼ inch in steel. Weight 450 lbs. Voltage 110 or 220

Direct Current ....Each $110.00

Alternating Current .....Each 121.00

One in a Crate

NOTE—In ordering, give full information regarding current, voltage, etc.

SILVER'S
Double Geared
Self-Feed

With ball bearings, fast or slow speed. A high-grade drill in every respect. Neatly finished and machined.

The intermediate gear eliminates the necessity of turning crank reverse direction on slow speed. Table moves up or down, or to either side. The automatic feeding device, located back of spindle, gives nearly a continuous feed. Feed can be regulated by thumb screw. Frame is neat and solid, cast in one piece. All bearings ground from the solid metal to working fit. Gears are machine molded and of perfect mesh. Spindle and shafts are of steel

Dimensions: Size of spindle, 1⅛ inches; run of spindle, 4 inches; size of column, 2 inches; greatest distance of spindle to table, 16 inches; spindle turns 1½ times to 1 turn of crank on fast speed; crank turns 1⅛ times to 1 turn of spindle on slow speed; drills to center of 18 inch circle and up to 1½ in. holes. Spindle bored for ½ in. round shank drills, unless otherwise ordered. Total height 50 inches

For Hand Power

No. 23—Weight 170 lbs..... . Each $16.00

One in a Crate

Double Geared

Self-Feed

This drill is precisely the same as No. 23, only fitted with tight and loose pulleys, making it a power machine.

The tight and loose pulleys measure 8x2½ inches and should be speeded about 250 revolutions, which will turn the spindle 170

For Hand or Belt Power

No. 23P—Weight 185 lbs.....Each $20.00

One in a Crate

SILVER'S
Double Geared
Self-Feed

A strong, rapid and complete drill with hand or continuous automatic feed. It has a neat and attractive finish and will do perfect work within its range.

Dimensions: Floor space over all 10x16 in Has extension crank and adjustable feed.

Drills 0 to 1 inch holes, and to center of 14½ in. circle. Drill spindle bored for ½ in straight shank drills. Feed has run of 3 in. Upright column, drill spindle and feed screw are of steel

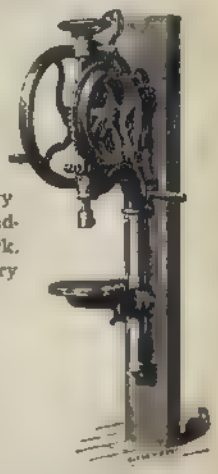
Total height 45 in., upright column 1⅞ in. diameter; table 7 in. diameter; drive gear wheel 10 in. diameter. fly wheel 14 in. diameter; greatest distance of spindle to table 10½ inches.

No. 2—Weight 100 lbs.....Each $10.00

One in a Crate

Double Geared

Self-Feed



A very strong, heavy drill, highly recommended for heavy work. Neatly finished and very durable.

Dimensions: Floor space over all, 15 x 19 inches. Has extension crank and variable feed. Drills 0 to 1¼ in. holes, and to center of 16 in. circle. Drill spindle bored for ½ in straight shank drills. Feed has run of 3 in. Upright column, drill spindle and feed screw are of steel

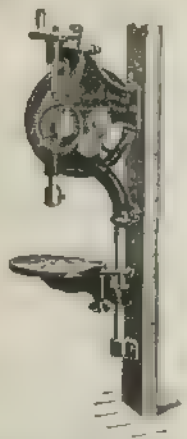
Total height 49 inches; upright column, 1⅞ in. diameter; table, 8 inches diameter; drive gear wheel, 12 inches diameter; fly wheel, 16 inches diameter; greatest distance of spindle to table 13 inches.

No. 3—Weight 140 lbs.....Each $14.00

One in a Crate

HAND AND POWER POST DRILLS

SILVER'S
Double Geared
Self-Feed



With ball bearings and intermediate gear. Fast or slow speed.

A perfect drill for light and medium work. The intermediate gear wheel eliminates necessity of turning crank reverse direction on slow speed. Has adjustable table. The ball bearing feed nut saves 20 to 50% in power. Balls of best quality steel are carried in case hardened steel discs.

Drill has ground bearings, machine molded gears, and automatic feeding device, which gives nearly a continuous feed, avoiding jamming and breaking of bits. The feed can be increased or diminished by simply turning a thumb screw.

Spindle and shafts are of steel, with bearings bored and reamed in solid frame.

Dimensions: Size of spindle, 1 inch; run of spindle, 3¾ in.; size of column, 1⅝ in.; greatest distance of spindle to table 13 in.; spindle turns 1⅓ times to one turn of crank on fast speed; crank turns 1⅓ times to one turn of spindle on slow speed; drills to center of 15 in. circle and up to 1¼ in. holes; spindle bored for ½ inch round shank drills, unless otherwise ordered; total height 48 in.

For Hand Power

No. 22—Weight 115 lbs.....Each $10.00
One in a Crate

Double Geared
Self-Feed

This drill is exactly like the No. 22, only fitted with tight and loose pulleys making it a power machine.

The tight and loose pulleys measure 8x2⅛ inches. They should be speeded about 250 revolutions, which will turn the spindle 170.

For Hand or Belt Power

No. 22P—Weight 130 lbs.....Each $14.00
One in a Crate

SILVER'S
Single Geared
Hand Feed

A first-class drill for those requiring a drill for ordinary light work. Finished in a very neat and attractive manner.

Dimensions: Floor space over all, 8 x 13 inches; height of drill 36 inches; upright column diameter, 1⅝ inches; diameter of drive gear wheel, 6½ inches; diameter of table, 6 inches; greatest distance of spindle to table, 10½ inches. Drills ¾ inch to center of 12 inch circle. Drill spindle is 1 inch steel, and bored for ½ inch straight shank drills. Feed has run of 2½ inches. Upright column and feed screw are of steel.

No. 1½—Weight 55 lbs.....Each $6.00
One in a Crate

Double Geared
Self-Feed

This drill is similar to the No. 1½, only built for heavier work and feeds automatically.

Has extension crank and adjustable feed. Drills ¾ inch to center of 12 inch circle. Drill spindle is 1 inch steel, and bored for ½ inch straight shank drills. Feed has run of 2½ inches. Upright column and feed screw are of steel.

Dimensions: Floor space over all, 9x16 in.; total height, 37 inches; upright column, 1⅝ inches diameter; drive gear wheel, 8 inches diameter; table 6 inches diameter; greatest distance of spindle to table, 10½ inches; fly wheel diameter, 14½ inches.

No. 1—Weight 80 lbs.... ... ... Each $8.00
One in a Crate

BIT STOCK DRILL CHUCK

Made from cast steel carefully tempered. ½ in. shank. Used in connection with Nos. 1½, 1, 2, 3, 12, 22, 22P, 23 and 23P Silver's Post Drills so bit stock drills can be used

No. 120.....Each $1.00
Packed as Ordered

20-INCH SWING DRILLS

SILVER'S

Drive shaft has tight and loose pulleys. Turns 1⅜ times to 1 turn of spindle

Back gears can be furnished with this style drill when desired

The combined lever and wheel feed drills permit either the lever or the wheel to be used, without effecting the other. Aside from this they are not different from the plain lever feed. Bevel gears are accurately cut from solid blanks, the cog rack is forged from steel and the teeth are milled to gauge. Table has easy up-and-down adjustment and swings to either side. When the tool is wanted only for drilling, the countershaft for it is provided with tight and loose pulleys, 8 in. diameter by 2¾ in. face, as shown in the accompanying engraving, and should make 200 revolutions per minute. For tapping and drilling, a friction countershaft is required.

No. 858—Height 68¼ in., diameter of table 16 in., weight 700 lbs. ..Each $95.00
One in a Crate

Drive shaft has tight and loose pulleys. Turns 1⅜ times to 1 turn of spindle.

Power feed and automatic stop.

The back gear friction provides four slow speeds for heavier work, making a total of eight different speeds. The automatic stop requires only to be started and will stop automatically wherever set, at any required depth. This action is entirely independent of the wheel or the lever feed, either of these can be used in addition. Bevel gears are accurately cut from solid blanks, the cog rack is forged from steel and the teeth are milled to gauge. The top shaft has split bearings to permit of taking up wear. Table has easy up-and-down adjustment and swings to either side. When the tool is wanted only for drilling, the countershaft for it is provided with tight and loose pulleys, 8 in. diameter by 2¾ face and should make 200 revolutions per minute. For tapping and drilling, a friction countershaft is required.

No. 862—Height 68¼ in., diameter of table 16 in., weight 750 lbs. ..Each $130.00
One in a Crate

Jim Crow Rail Bender

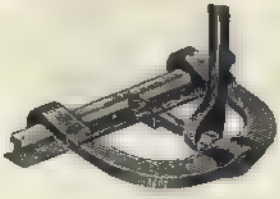


Fig. 84

These rail benders are forged of solid machine steel with machine steel screws

No.	Will Bend	Weight Complete	List Price Without Lever
1	100-pound rail	170 pounds	$50 00
2	85-pound rail	145 pounds	43 00
3	75-pound rail	110 pounds	32 50
4	50-pound rail	85 pounds	24 50
5	25-pound rail	65 pounds	20 50
6	16 pound rail	40 pounds	18 00

The Giant Rail Bender and Straightener

To be Driven by Belt or Direct Connected Motor

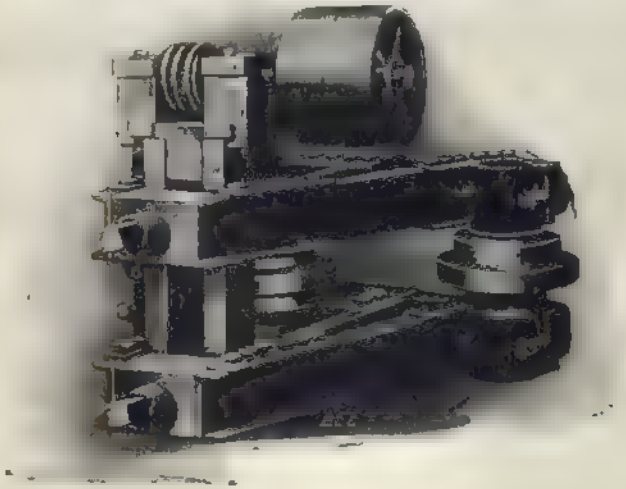


Fig. 85

Belt driven..... each $400.00
Direct connected motor drive each 750 00

Samson Rail Benders

Fig. 86

Will bend 100-pound rails into position when taking kinks out of track without drawing spikes. Can be operated by one man. Frame is of open hearth steel, extra strongly made. Screws are of steel working in bronze nut and provided with anti-friction washers. Thrust is of hardened steel.

Weight each 100 pounds — each $60 00

The Emerson Rail Bending and Straightening Machine

(Patented)

Fig. 87

No 1.	For rails up to 45 pounds to yard..	$.
No 2.	For rails 45 to 65 pounds to yard ...	
No 3.	For rails 65 to 90 pounds to yard	
No 4.	For rails 90 to 115 pounds to yard...	

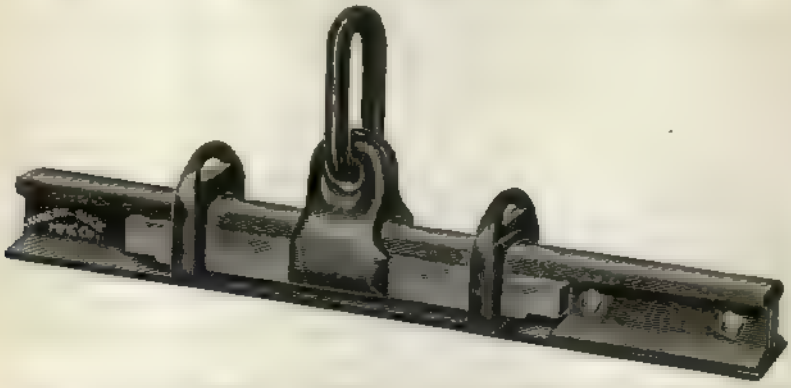
Discount

McPartland Rail Clutch

A practical and efficient tool for a real necessity to wrecking crews and construction companies. It will pay for itself many times the first year used, by saving the breakage of chains, blocks, falls and other appliances.

Weight 105 pounds. Easily handled and quickly adjusted by one man.

For a line pull, the clutch is placed on the rail beyond the angle bars. For a cross pull or elevating hitch a loaded car or engine is placed on each side of the clutch on track to which hitch is made. This prevents the track from raising.



There is no danger of kinking the rails with the clutch. The bars have a bearing surface of three inches. When used for a short grade of two plows, the leading bar clutches are chosen on the rail beyond angle bars of every joints, while the second bar clutches are placed on the rail beyond the joints next to the plow and the rear bar clutches are placed on the rail beyond the joints next to the rear plow, thus preventing a center pull.

A train of earth is pulled from under plow, thus unloading the whole train at one setting, instead of plowing off three or four cars at one time and resetting train. Heretofore the practice has been in wrecking to make chain hitches to each pair of track, placing cross blocks between the tracks to prevent kinking and pulling them together, which in nearly every case results in breaking the chains, pulling the track and ties out of position and bending or kinking the rail.

Fig 88

With this appliance there is no wrapping of chains around rails or placing "dead men." The outfit will start any size train 50 or 100 cars. The engineer often says, "Will this be sufficient to pull the largest size cars?" and "Can't we get more cars?" On the rail clutches there are from 4 to 6 spikes, to 6-inch bolts, which afford ample resistance. In this we have a combination that will resist all the strain it will be called upon to bear.

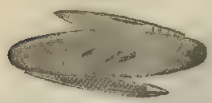
Price each $25.00

POCKET KNIVES

*J. KOESTER'S SONS, GERMANY

High Grade Imported; English Steel Blades, Ground to a Fine Cutting Edge; Perfectly Fitted and Beautifully Finished by Skilled Workmen. Free from Flaws and Imperfections. FULLY GUARANTEED.

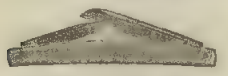
TWO BLADE PENS



Lobster Pattern; Length 2⅝ inches; Uncapped; One Small Pen and One File Blade; Full Polished; German Silver Lining, Milled; German Silver Shield; Weight per Dozen 6 ozs.

Per Dozen

No. C2022P—Pearl Handle..... $17.00



Congress Pattern; Length 2½ inches; Uncapped; One Small Congress and One File Blade; Full Polished; German Silver Lining No Shield; Weight per Dozen 4 ozs.

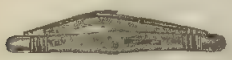
Per Dozen

No. C2026P—Pearl Handle.....$10 50

Congress Pattern; Length 2½ inches; German Silver Bolsters; One Small Sheep Foot and One Small Pen Blade; Full Polished; German Silver Lining; German Silver Shield; Weight per Dozen 4 ozs.

Per Dozen

No. C2017P—Pearl Handle..... $10.00



Balloon Pattern; Length 2¼ inches; German Silver Fancy Bolsters; One Small Sheep Foot and One Small Pen Blade; Full Polished; German Silver Lining; German Silver Shield; Weight per Dozen 4 ozs.

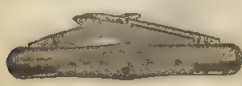
Per Dozen

No. C2010P—Pearl Handle..... $9 50

Senator Pattern; Length 2½ inches; Uncapped; One Small Spear and One Small Pen Blade; Full Polished; Brass Lining, Milled; German Silver Shield; Weight per Dozen 6 ozs.

Per Dozen

No. C2062P—Pearl Handle..... $13.50



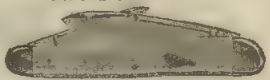
Balloon Pattern; Length 2¾ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 8 ozs.

Per Dozen

No. C3072P—Pearl Handle.....$10.00

All Above, Half Dozen in a Box

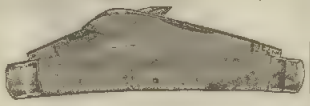
TWO BLADE PENS



Wharncliffe Pattern; Length 3 inches; German Silver Bolsters; One Large Spear and One Small Pen Blade, Full Polished; Brass Lining, Milled; German Silver Shield; Weight per Dozen 12 ozs.

Per Dozen

No. C2008P—Pearl Handle $16 00



Congress Pattern; Length 3¼ inches; Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade; Half Polished; Iron Lining; No Shield; Weight per Dozen 16 ozs.

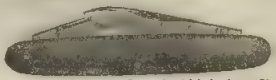
Per Dozen

No. C2023P—Pearl Handle.....$21 00

Congress Serpentine Pattern; Length 3 inches, German Silver Tipped, One Large Spear and One Small Pen Blade, Full Polished; Brass Lining, Milled; German Silver Shield; Weight per Dozen 8 ozs.

Per Dozen

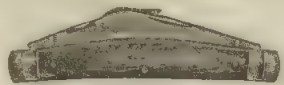
No. C2027P—Pearl Handle..... $18.00



Senator Pattern; Length 3¼ inches; Uncapped; One Large Spear and One Small Pen Blade; Full Polished; Unlined; No Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C0008GM— Gun Metal Handle... $8.50



Congress Pattern; Length 3¼ inches; Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade; Half Polished; Brass Lining; No. Shield; Wt. per Dozen 10 oz .

Per Dozen

No. C2002GST—Genuine Stag Handle. $8.00

Sleeve Board Pattern; Length 3¼ inches; German Silver Tipped; One Large Spear and One Small Pen Blade; Full Polished; Brass Lined, Milled; German Silver Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C2001P Pearl Handle..... $19 00

All Above, Half Dozen in a Box

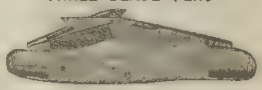
TWO BLADE PENS

Sleeve Board Pattern; Length 3 inches; Uncapped; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining, Milled; No Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C2009P—Pearl Handle.....$19 00

THREE BLADE PENS



Serpentine Pattern; Length 2¾ inches; German Silver Bolsters; One Large Clip, One Small Pen and One File Blade; Half Polished; Brass Lining; No Shield; Weight per Dozen 12 ozs.

Per Dozen

No. C3071P Pearl Handle.....$14.00

Lobster Pattern; Length 3¼ inches; Uncapped; One Large Spear, One Small Pen and One File Blade, Full Polished; Brass Lining, Milled; No Shield; Weight per Dozen 10 ozs.

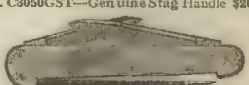
Per Dozen

No. C3046P—Pearl Handle..... $36.00

Lobster Pattern; Length 3 inches; Uncapped; One Large Spear, One Small Pen and One File Blade; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C3050GST—Genuine Stag Handle $20.00



Lobster Pattern; Length 2¾ inches; Uncapped; One Small Spear, One Small Pen and One File Blade; Full Polished; Brass Lining Milled; No Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C3009P -Pearl Handle..... $28 00

Shadow Pattern; Length 3 inches; Uncapped; One Large Spear and Two Small Pen Blades; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C3049P- Pearl Handle $32 00

All Above, Half Dozen in a Box

POCKET KNIVES

*J. KOESTER'S SONS, GERMANY

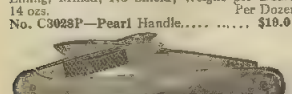
High Grade Imported English Steel Blades, Ground to a Fine Cutting Edge, Perfectly Fitted and Beautifully Finished by Skilled Workmen. Free from Flaws and Imperfections. FULLY GUARANTEED.

THREE BLADE PENS

Lobster Pattern; Length 2⅛ inches; Uncapped; One Small Spear, One Small Pen and One File Blade; Full Polished; German Silver Lining, Milled, No Shield; Weight per Dozen 8 ozs. Per Dozen
No. C3074P—Pearl Handle.....$22.00

Lobster Pattern; Length 3 inches; Uncapped; One Large Spear, One Small Pen and One File Blade; Full Polished; No Shield; Weight per Dozen 10 ozs. Per Dozen
No. C3031P —Pearl Handle; German Silver Lining..... $30.00
No. C3078GM Gun Metal Handle; Unlined..... 16.00

Senator Pattern; Length 3 inches; German Silver Bolsters; One Large Spear, One Small Pen and One File Blade; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 14 ozs. Per Dozen
No. C3028P—Pearl Handle..... ..... $18.00



Length 3⅛ inches; Uncapped; One Large Spear, One Small Pen and One File Blade; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 14 ozs. Per Dozen
No. C3017P Pearl Handle..... $34.00

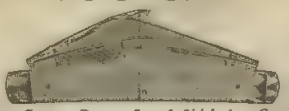
FOUR BLADE PENS

Lobster Pattern; Length 2⅞ inches; Uncapped; One Small Congress, Two Small Pens and One File Blade; Full Polished; Unlined, No Shield; Weight per Dozen 8 ozs. Per Dozen
No. C3095GM—Gun Metal Handle....$32.00

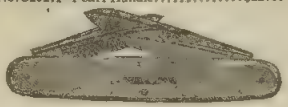
Senator Pattern; Length 3 inches; German Silver Tipped; One Large Spear, Two Small Pens and One File Blade; Half Polished; Brass Lining; German Silver Shield; Weight per Dozen 14 ozs. Per Dozen
No. C4081P— Pearl Handle..... ... $22.00

All Above, Half Dozen in a Box.

FOUR BLADE PENS

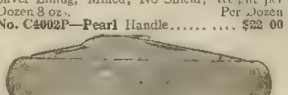


Congress Pattern; Length 3⅛ inches; German Silver Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade; Full Polished; Brass Lining, Milled; No Shield; Weight per Dozen 16 ozs. Per Dozen
No. C4017P-Pearl Handle.....$21.00



Senator Pattern; Length 3¼ inches; Uncapped; One Large Spear, Two Small Pens and One File Blade; Full Polished, German Silver Lining, Milled; German Silver Shield; Weight per Dozen 16 ozs. Per Dozen
No. C4013P—Pearl Handle $12.00

Congress Pattern; Length 2⅞ inches, Uncapped; One Small Congress, Two Small Pens and One File Blade; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 8 ozs. Per Dozen
No. C4002P—Pearl Handle..... .... $22 00



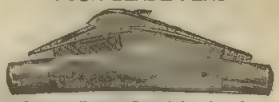
Lobster Pattern; Length 3 inches; Uncapped; One Small Congress, Two Small Pens and One File Blade; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 12 ozs. Per Dozen
No. C4059P-Pearl Handle.....$36 00

Swell Center Congress Pattern; Length 3¼ inches; German Silver Bolsters; One Large Congress, Two Small Pens and One File Blade; Half Polished; Brass Lining; German Silver Shield; Weight per Dozen 14 ozs. Per Dozen
No. C4080P Pearl Handle..... $22.00

Anglo Saxon Pattern; Length 3¼ inches; German Silver Flush Bolsters; One Large Spear, Two Small Pens and One File Blade; Half Polished; Brass Lining; No Shield; Weight per Dozen 16 ozs. Per Dozen
No. C4078P-Pearl Handle..... $22 00

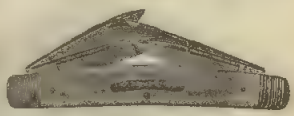
All Above, Half Dozen in a Box.

FOUR BLADE PENS



Congress Pattern; Length 3 inches; German Silver Bolsters; One Large Congress, Two Small Pens and One File Blade; Half Polished; Brass Lining; No Shield; Wt. per Dozen 16 ozs. Per Dozen
No. C4092P—Pearl Handle..... $16.00

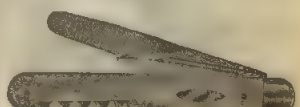
Senator Pattern; Length 3⅛ inches; Uncapped; One Large Spear, Two Small Pens and One File Blade; Full Polished; German Silver Lining, Milled; German Silver Shield; Weight per Dozen 12 ozs. Per Dozen
No. C4006P Pearl Handle..... $35.00



Congress Pattern; Length 3¼ inches; German Silver Scored Bolsters; One Large Congress, Two Small Pens and One File Blade; Half Polished Brass Lining, German Silver Shield, Wt. per Doz 16 ozs. Per Dozen
No. C4077P—Pearl Handle $22.00

COMBINATION

Anglo-Saxon Pattern; Length 3¼ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; One Cork Screw; Full Polished German Silver Lining; No Shield; Wt per Dozen 20 ozs. Per Dozen
No. C3080ST—Patent Stag Handle.. $19.00
No. C3080P —Pearl Handle..... 20.00



Length 3½ inches; German Silver Bolster; One Large Spatula and One Small Pen Blade; One Cork Screw; Full Polished; Brass Lining Milled; German Silver Shield; Weight per Dozen 18 ozs. Per Dozen
No. C3039P—Pearl Handle..... $36 00

All Above, Half Dozen in a Box.

POCKET KNIVES

*J. KOESTER & SONS, GERMANY

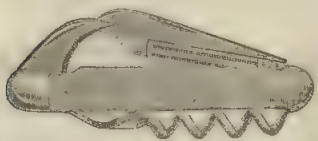
High Grade Imported; English Steel Blades, Ground to a Fine Cutting Edge; Perfectly Fitted and Beautifully Finished by Skilled Workmen. Free from Flaws and Imperfections. FULLY GUARANTEED.

COMBINATION

Wharncliffe Pattern; Length 3 inches; Uncapped; One Large Spear Two Small Pens and One File Blade; One Glove Fastener and One Cork Screw; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 14 ozs.

	Per Dozen
No. C5003GST -Genuine Stag Handle	**$35 00**
No. C5003P —Pearl Handle	**50 00**

Half Dozen in a Box



Champagne Pattern; Length 3⅝ inches; German Silver Bolsters; One Large Congress and One File Blade, One Cork Screw and One Wire Cutter; Full Polished; Brass Lining; No Shield; Weight per Dozen 1⅝ lbs.

	Per Dozen
No. C4058P—Pearl Handle	**$44 00**

Half Dozen in a Box

Lobster Pattern; Length 3½ inches; Uncapped; One Large Spear and Two Small Pen Blades, One Nail File, One Glove Fastener, One Pair Scissors, One Cork Screw, One Long Pricking Needle, One Short Pricking Punch; Full Polished; One German Silver Ear Spoon and One Tortoise Shell Tooth Pick; German Silver Lining, Milled; No Shield; Weight per Dozen 2½ lbs

	Per Dozen
No. C5005P -Pearl Handle	**$100.00**

Half Dozen in a Box

POCKET KNIVES

*G. W. PUTNAM & CO., GERMANY

Imported; Good Quality German Cast Steel; Well Ground and Nicely Finished; Made for Service. NOT GUARANTEED.

TWO BLADE PENS

Congress Pattern; Length 2⅝ inches; German Silver Bolsters; One Large Congress and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 8 ozs.

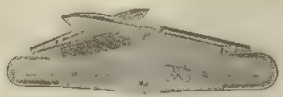
	Per Dozen
No. P2133P—Pearl Handle	**$8.50**

Half Dozen in a Box

Sleeve Board Pattern; Length 2⅝ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 8 ozs.

	Per Dozen
No. P2132P—Pearl Handle	**$7.50**

Half Dozen in a Box



Balloon Pattern; Length 3½ inches; German Silver Bolsters; One Large Spear, One Small Pen and One File Blade; Full Polished Brass Lining; German Silver Shield; Weight per Dozen 10 ozs.

	Per Dozen
No. P3113P Pearl Handle	**$15.00**

Half Dozen in a Box

Premium Stock Pattern; Length 3¾ inches; German Silver Bolsters; One Large Clip, One Small Sheep Foot and One Small Spaying Blade, Half Polished; Brass Lining; German Silver Shield; Weight per Dozen 2 lbs

	Per Dozen
No. P3102P—Pearl Handle	**$22 00**

Half Dozen in a Box

POCKET KNIVES

★BRIDGE CUTLERY CO.

American Made; High Grade English Steel Blades, Carefully Forged, Ground and Tempered; Free from Flaws and Imperfections. FULLY GUARANTEED.

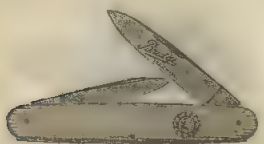
EMBLEM
All with Pyralin Handles

Two Blade Pen; Ballet Design; Clear Pyralin with Lithographed Emblems underneath; Length 3¼ inches; German Silver Bolsters; One large Clip and One small Pen Blade; Half Crocus polished. Brass Lining; Weight per Dozen 10 ozs.

Nos.	Per Dozen
2B466EM—Masonic	$21.00
2B466EMW—Mod Woodmen	21.00
2B466EOF—Odd Fellows	21.00
2B466EKP—Knights of Pythias	21.00
2B466EOE—Eagles	21.00
2B466EE—Elks	21.00

Two Blade Pen; Mother of Pearl Pyralin Handles with Enameled inlaid Emblems in Colors; Length 3 in.; German Silver tipped; One Large Spear and one File Blade; Half Crocus polished; German Silver Lining; Weight per Dozen 8 lbs.

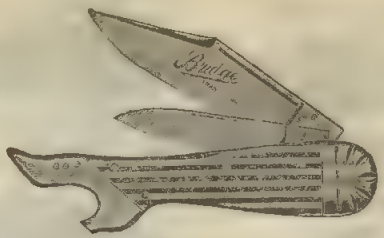
Nos.	Per Dozen
2B473EM—Masonic	$22.00
2B473EOF—Odd Fellows	22.00
2B473EKP—Knights of Pythias	22.00
2B473ELOM—Moose	22.00
2B473EL—Owls	22.00
2B473EE—Elks	22.00
2B473EC—Knights of Columbus	22.00



Two Blade Pen; Ivory Grain Pyralin Handles with Enameled inlaid Emblems in Colors, Length 3¼ in.; One large Spear and one small Pen Blade; Half Crocus polished; Brass Lining; Weight per Dozen 12 ozs.

Nos.	Per Dozen
2B458W—Odd Fellows	$15.00
2B459W—Masonic	15.00
2B460W—Elks	15.00
2B482W—Knights of Columbus	16.00
2B483W—Knights of Pythias	16.00
2B484W—Eagles	16.00
2B485W—Mod Woodmen	16.00
2B506W—Moose	17.00
2B507W—Owls	17.00

All Above, Half Dozen in a Box



Pen; Ballet Design; Length 3¼ inches; German Silver Fancy Bolsters; Half Crocus polished; Brass Lining.

Pyralin Handles assorted Six different Colors in a Box, **Ivory Grain, Pink, Smoked Pearl, Carnelian, Black and White Stripe and Castile Red Mottled.**

One Blade	Two Blade
Per Dozen	Per Dozen
No. 1B435AC—One Large Clip Blade; Weight per Dozen 10 ozs. $10.00	No. 2B435AC—One Large Clip and One Small Pen Blade; Weight per Dozen 14 ozs. $15 00

Per Dozen

No. 2B494AP Abalone Pearl Shell Pyralin Handle, Plain German Silver Bolsters, otherwise same as No. 2B435AC; Weight per Dozen 14 ozs. $16 00

BASE BALL BAT DESIGN

Two Blade Jack; Length 4 inches; German Silver Bolster; One large Clip and one small Pen Blade; Half Crocus Polished; Brass Lining; Weight per Dozen 1¼ lbs.

Per Dozen

No. 2B463¾AC—**Pyralin Handles**; assorted Ivory Grain and Brown Burnt wood effect, three of each in a Box; Inlaid Official League Ball in Handle $14.00

★J. KOESTER'S SONS, GERMANY

High Grade Imported English Steel Blades, ground to a fine cutting edge; perfectly fitted and beautifully finished by skilled workmen; free from flaws and imperfections; Fully Guaranteed.

Art Craft Assorted Silver and Bronze Metal Handles with embossed Emblems; Two Blade Pen; Length 3¼ inches; One Large Spear and One Small Pen Blade; Full Crocus Polished Weight per Dozen 11 ozs.

Nos.	Per Dozen	Nos.	Per Dozen
C6019M Odd Fellows	$9.00		
C6022M Modern Woodmen	9.00	C6026M Knights of Columbus	$9.00
C6023M Knights of Pythias	9.00	C6027M Eagles	9.00

All Above, Half Dozen in a Box

AUTOMOBILE CLOCKS

SHAPLEIGH HARDWARE CO.

ON TIME

These Clocks are Made of the Best Grade of Materials and are Very Ha[illegible] ce and Workmanship; Very Strong and Durable; B[illegible] Especially [illegible] and the Hard Usage and Vibration of Automobile Travel. Easily Attached to Dash by Three Wood Screws, and Contain very High Grade Thoroughly Tested Movements

For Use on Straight Dash Board

[illegible] 30-hour Movement with Second Hand; Case finished in Nickel and Black Enamel with Nickel Rim; 2½ inch White Porcelain Dial; Height 3½ inches; Width 3 inches; Heavy Plate Glass Crystal; Weight per Clock 13 oz.

	Each
No. 3N [illegible]	$4 00
No. 3BN [illegible] Nickel Rim	4.00

One in a Box

Eight Day Movement with Convenient Outside Wind and Set; Case finished in Black Enamel with Nickel Rim; 2½ inch White Porcelain Dial with Second Hand; Height 3¼ inches; Width 2⅝ inches; Heavy Plate Glass Crystal, Weight per Clock 20 ozs.

	Each
No. 4BN—[illegible]	$6.00

[illegible] Movement is Used in This Clock as is Used in the No. [illegible] Nickel Plated Finish; Extreme Width 3½ inches; 3 inches Deep; 2½ inch Dial with Second Hand; Heavy Plate Glass Crystal; Weight per Clock 15 ozs.

	Each
No. 5N—For Dash Board, Nickel Plated Case	$6.00

One in a Box

	Each
No. 6N—30 Hour Movement, otherwise same as No. 5N; Nickel Plated Case	$4 20

One in a Box

KEYLESS AUTO CLOCK CO.

These Clocks are Dust and Moisture Proof; Vibration does not affect [illegible]

BELMONT

KEY WIND

8 Day

A Cowl Clock that sets Close to Dash

	Each
No. Belmont—Black and Nickel Finish; 2¼ inch Dial	$6.75

One in a Box

AUTOMOBILE CLOCKS

KEYLESS AUTO CLOCK CO.

These Clocks are Dust and Moisture Proof; Vibration does not affect their time-keeping quality.

RIM WIND—RIM SET

8 Day

	Each
No. K9N—All Nickel; 2¼ inch Dial	$15 00
No. K9BN—Black and Nickel; 2¾ inch Dial	15 00
No. K12BAN—All Nickel; [illegible]	14 40
No. K12BBN—Black and Nickel; 2¼ inch Dial	14 40

Model 9—For Cadillac, Wilson, White, Buick, Overland, Cole, Studebaker, Lewis, Austin.

Model 12B—For Reo, Chandler, Paige, Hudson, Hupmobile, Overland, Buick, Dodge, Mercer, Pathfinder.

One in a Box

RIM WIND—RIM SET

8 Day

A very Reliable Timepiece.

	Each
No. 7N—All Nickel; 2¼ inch Dial	$15 00
No. 7BN—Black and Nickel; 2¾ inch Dial	15.00
No. 12N—All Nickel; 2¼ inch Dial	14 00
No. 12BN—Black and Nickel; 2¼ inch Dial	14 00

One in a Box.

RIM WIND—RIM SET

8 Day

For Ford Cars; Thief Proof; Rim Wind [illegible] 2¼ inch Dial.

	Each
No. K12BD [illegible]	$11 00

One in a Box

MODEL M & M Jr.

RIM WIND RIM SET

8 Day

Offset Model—Thief-Proof

	Each
No. KMN—All Nickel; 2¾ inch Dial	$14 30
No. KMBN—Black and Nickel; 2¾ inch Dial	14 30
No. KMJRN—All Nickel, [illegible] inch Dial	13 50
No. KMJRBN—Black and Nickel, [illegible]	13 50

MODEL L

RIM WIND -RIM SET

Straight Base

2¼ inch Dial; 2¼ inches high

	Each
No. KLN—All Nickel Case	$13 20
No. KLBN—Black and Nickle Case	13 20

One in a Box.

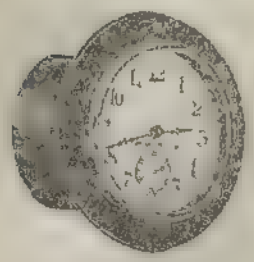
AUTOMOBILE CLOCKS

KEYLESS AUTO CLOCK CO.

ABRO
KEY WIND
8 Day

An Offset Clock with Best Key-Winding Movement; [illegible]

No. ABN—Black and Nickel Finish; 2 [illegible] Dial [illegible] Each $9 80
[illegible]



NEW HAVEN COWL
KEY WIND
8 Day

Most accurate Key Winding Cowl Clock made.

Each
Cowl-NH—Black and Nickel Case; 2¼ inch Dial..... $10 50
One in a Box

FRISCO COWL
STEM WIND
One Day

Concealed Winding Stem

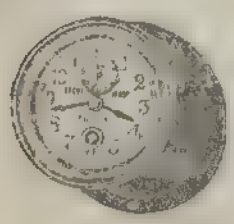
Each
Frisco 2—For Dash Board; 2½ inch Dial..... $4 20

[illegible] Each
Frisco 1 [illegible] $3 00
[illegible]

DENVER COWL
KEY WIND
8 Day

A Cowl Clock that sits close to Dash; 2¼ inch Dial.

Each
No. KDN—All Nickel Case..... $7 50
No. KDBN—Black and Nickel Case 7 50
One in a Box



SHASTA
KEY WIND
8 Day

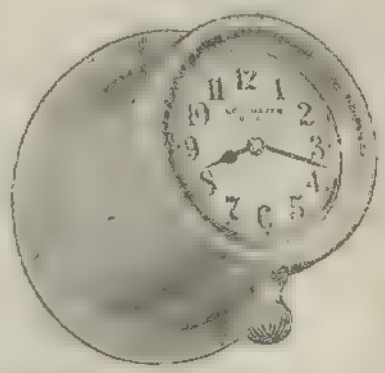
An [illegible] type. No locking plate. [illegible]

Each
No. KSN—All Nickel Case..... $7 20
No. KSBN—Black and Nickel Case. 7 20
One in a Box

AUTOMOBILE CLOCKS

KEYLESS AUTO CLOCK CO.

STEM WIND—ONE DAY TIME



Light Solid Brass Case, Polished, with offset Holding a Complete Watch; One Day Time Movement; Stem Wind and Set; 1½ in. white Dial; Height 3½ inches; Width 2¼ inches.

Each
Duane [illegible] $3 80
One in a Box
Weight per clock ½ lb.

STEM WIND—ONE DAY TIME

Heavy Solid Brass Case, Polished, with offset Holding a Complete Watch; One Day Time; Stem Wind and Set; 1⅛ Inch White Dial; Height 3½ inches; Width 2⅞ Inches.

Each
Devere [illegible] $4 50
[illegible] Watch to Dash board, packed in each Box.
Weight per clock ¾ lb.
One in a Box

STEM WIND—ONE DAY TIME

This is the very newest Clock for **Steering Wheel on Ford or Dodge Cars or for Handle Bar of any Make Motorcycle.**

Sets on top of steering column. No bolts or Screws needed to attach. Simply raise the nut on steering column, slide in C[illegible], and Screw nut tight.

Each
No. FIAT—[illegible] $4 20
[illegible]

STEM WIND—ONE DAY TIME

With this Clock it is not necessary to cut Cowl Board.

Each
No. Panama Black and Nickel [illegible] $4 20
[illegible]

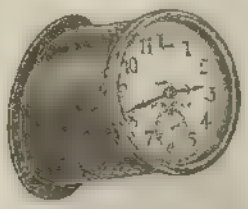
AUTOMOBILE CLOCKS
KEYLESS AUTO CLOCK CO.

STEM WIND—ONE DAY TIME

An attractive Clock with Beveled Crystal and Non-Glaring Silver Reflector.

	Each
Uncle Dudley—BN—Black and Nickel Case	**$4 80**

One in a Box



KEY WIND—ONE DAY TIME

Off Set Model

	Each
No. K1BN—Black and Nickel Case; 2½ inch Dial	**$2.28**

One in a Box

KEY WIND—ONE DAY TIME

Cowl

	Each
No. K2N—All Nickel Case; 2½ inch Dial	**$2 92**

One in a Box

Ball Joint

KNOCKABOUT KLOCK

Guaranteed for One Year

Can be adjusted to fit any angle dash by the simple Ball Joint shown herewith, which can be adjusted and tightened to any angle, making it possible to see face of Clock regardless of how far it is from the lamp.

	Each
No. KAB—Black Japanned Finish	**$4 00**

One in a Box

AUTOMOBILE CLOCKS
KEYLESS AUTO CLOCK CO.

NOJAR

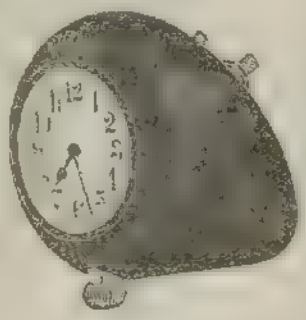
STEM WIND—ONE DAY TIME

For Steering Wheel on Ford or Dodge Cars

Rubber retained Clock for Ford Cars. No Trouble to attach; simply remove nut from top of steering wheel and attach the Clock, which may be adjusted to any Angle as the Rubber Holder is movable on the Metal Base. Is a good timekeeper.

	Each
No. FN1—Clock retained in Black Rubber Holder; Weight per Clock 1 lb.	**$4 00**

One in a Box



NOJAR

STEM WIND—ONE DAY TIME

For Dash, Any Make Car

Rubber retained Clock for Dash of any make car. Drill Holes for Screws which are attached permanently to metal Base, embody in Rubber Tubing Ends, and the Clock is ready for use.

	Each
No. FD2—Clock retained in Black Rubber Holder, Weight per Clock ¾ lb.	**$4.70**

One in a Box

MOTORCYCLE WATCHES

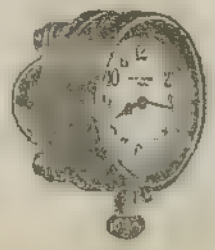
NEBO

Fasten to Handle Bars of Motorcycle or Bicycle.

Polished Solid Brass Case, Holding a Complete Watch; 1 Day Time; Stem Wind and Set; 1½ inch Dial; Height 2¾ inches; Width 2⅞ inches.

	Each
No. NB—Weight ¾ lb.	**$3 50**

One in a Box



FIAT

Polished Solid Brass Case, Holding a Complete One-day Movement Watch. Stem Wind and Set 1½ inch White Dial; Size of Case 2¼ inches in Diameter.

	Each
No. FB—Weight 8 ozs.	**$3 70**

One in a Box

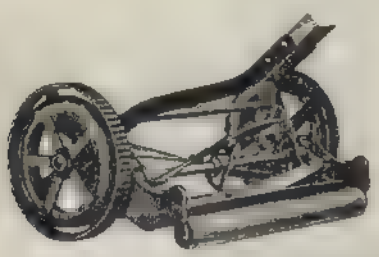
LAWN MOWERS

Finish green, aluminum trimmings. Wheels 8 inches in diameter Reel 5⅛ inches in diameter, with three crucible steel tempered blades. Adjustable bearings. Pawls steel hardened and noiseless in action

Popular

Width Cut, inches	14	16	18
Each	$4.50	$4 75	$5.00

One in a Box.



Finish, silver aluminum, red stripings. Wheels 8 inches in diameter, extension rim, and revolve on steel bearings. The reel is 5⅛ inches in diameter, and has three revolving knives of crucible tool steel, thoroughly tempered. All wear can be taken up by means of brass bushings and lock nut set screws.

Bonanza

Width Cut, inches	14	16	18
Each	$4.50	4 75	5.00

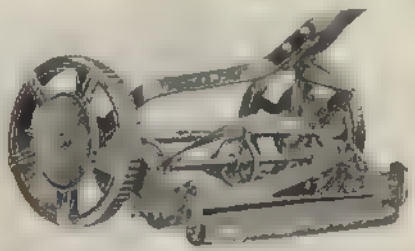
One in a Box

Finish aluminum, red trimmings. Wheels 9 inches in diameter, with large steel bearings. Reel 5⅛ inches in diameter, with four crucible steel tempered blades. Adjustable bearings. Pawls steel hardened and noiseless in action

New Eureka

Width Cut, inches	14	16	18
Each	$5.00	$5.50	$6.00

One in a Box

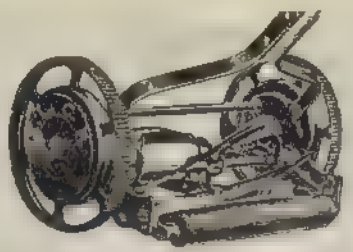


Finish light green, gold wheels, decorations green and gold Wheels 9 inches in diameter and revolve on steel bearings. The reel shaft is made of machinery steel and reel has three cutting knives of good quality steel, spirally formed so as to give a good, clean shear cut. All wear can be taken up by means of brass bushings and lock nut set screws.

Korker

Width Cut, inches	14	16	18
Each	$5.00	$5.50	$6.00

One in a Box.



Finish, aluminum, blue and gold trimmings. Wheels 10 inches in diameter. The reel is 5⅛ in. in diameter, and has four crucible steel tempered blades. Adjustable bearings to take up wear. Large steel adjusting screws Hardened steel pawls. Yielding bed knife.

XLCR

Width Cut, inches	14	16	18	20
Each	$7 50	$8.00	$8.50	$9.00

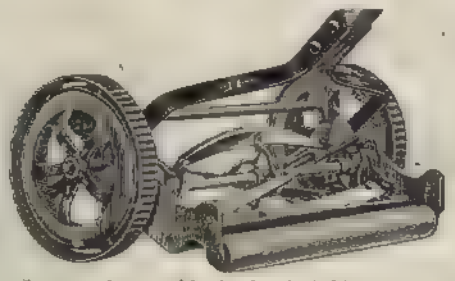
One in a Box

Finish sky blue machine, gold wheels, blue decorations. Wheels 10⅛ inches in diameter. Reel 6 inches in diameter, with four cutting blades of highest grade crucible steel, shear cut and self sharpening. This mower has brass bearings with a lock nut device for taking up all wear

La Belle

Width Cut, inches	14	16	18	20
Each	$6.50	$7.00	$7.50	$8.00

One in a Box.

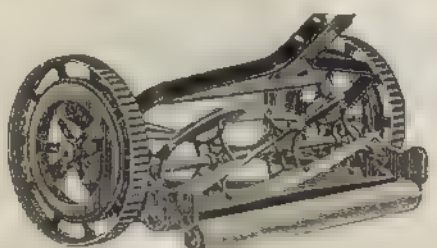


Finish, silver machine, gold wheels dark blue decorations. Wheels 9 inches in diameter. The reel is 5⅛ inches in diameter and has four cutting blades of crucible steel, ground under water to preserve their temper, and are self sharpening. Ball bearing cones are glass hard. All parts are screw adjusting

Sultan, Ball Bearing

Width Cut, inches	14	16	18	20
Each	$7.00	$7 50	$8 00	$8.50

One in a Box.



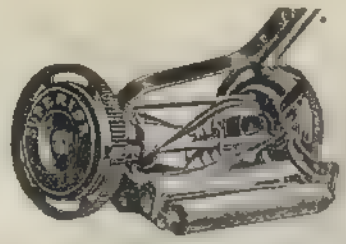
Finish gold and light green. Wheels 10½ inches in diameter Reel is 6 inches in diameter and has four cutting blades of highest grade crucible steel, spirally formed to give a positive shear cut. The ball bearing parts are of first quality tool steel. Screw adjusting throughout.

Sovereign, Ball Bearing

Width Cut, inches	14	16	18	20
Each	$9 00	$9.50	$10 00	$10.50

One in a Box.

LAWN MOWERS



Finish aluminum, blue and red trimmings. Wheels 8 in in diameter. Reel 5½ in. in diameter, with four crucible steel tempered blades. Ball cases, 1⅛ in. in diameter. Balls, ¼ inch, rest in improved ball retainer, which is dust proof. Ball cup and cones are of hardened steel. Pawls steel hardened and noiseless in action. Yielding bed knife

Superior, Ball Bearing

Width Cut, inches	14	16	18	20
Each	$7.50	$8.00	$8.50	$9.00

One in a Box.

Finish gold bronze, with blue and aluminum decorations. Wheels 9 inches in diameter. Reel is 5⅞ inches in diameter and has four cutting blades of highest grade crucible steel, spirally formed and self sharpening. The ball bearing parts are of the highest grade, and the cones are of tool steel. Screw adjusting throughout.

Mayfield, Ball Bearing

Width Cut, inches	14	16	18	20
Each	$8.50	$9.00	$9.50	$10.00

One in a Box

Finish black and gold bronze, decorations red. Wheels are 10 inches in diameter. Reel is 6 inches in diameter, with five crucible steel tempered knives. Ball cups are 1⅛ inches in diameter. Balls ⅝ in. diameter, resting in improved ball retainer, which is dust proof. Self sharpening blades. Pawls are of steel hardened and noiseless in action.

BBB, Ball Bearing

Width Cut, inches	15	17	19	21
Each	$12.00	$13.50	$15.00	$16.50

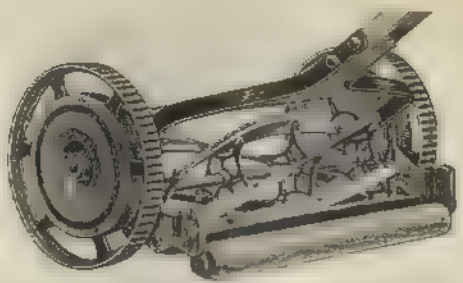
One in a Box.

Finish aluminum and gold, red trimmings. Wheels are 10 inches in diameter, with large bearings. Reel is 5½ inches in diameter, with four crucible steel tempered blades. Ball cups and cones are hardened and ground. Balls are ¼ inch in diameter, in an improved ball retainer, which is dust proof. Pawls are of steel, hardened and noiseless in action. Yielding bed knife.

New Standard, Ball Bearing

Width Cut, inches	14	16	18	20
Each	$9.50	$10.00	$10.50	$11.00

One in a Box



Finish silver and gold bronze, decorations ultramarine blue. Wheels are 10¼ inches in diameter. Reel is 6 inches in diameter, with five cutting blades of finest crucible steel, oil tempered, shear cutting, self sharpening. A ⅞ inch reel shaft and double riveted end spiders, prevent the reel from being sprung and add increased momentum. Pawls are of steel hardened and noiseless in action.

Wade Park, Ball Bearing

Width Cut, inches	14	16	18	20
Each	$10.00	$10.50	$11.00	$11.50

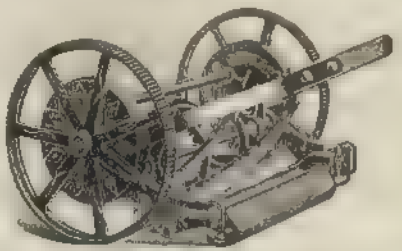
One in a Box

Finish silver and gold bronze, decorations Empire red. Wheels 11 inches in diameter. Reel 6 inches in diameter, with five cutting blades of razor steel, tempered in oil, and self sharpening. Every bearing is ball bearing; these parts are so thoroughly hardened that they are practically indestructible. A ⅞ inch reel shaft and double riveted end spiders prevent the reel from being sprung and add increased momentum.

Crestlawn, Ball Bearing

Width Cut, inches	14	16	18	20
Each	$16.50	$17.00	$18.00	$19.50

One in a Box

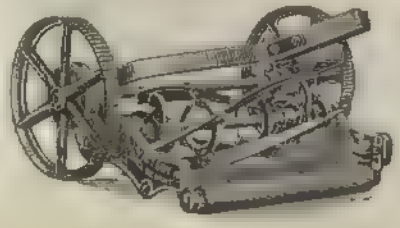


Finish gold frame, gold reel and wheels royal blue with red and gold trimming. Wheels are 12 inches in diameter, reel is 7 inches in diameter, with five crucible steel tempered blades. Double pawl ratchets placed in the [illegible]

Superb, Ball Bearing

Width Cut, inches	18	20	22
Each	$28.00	30.00	32.00

One in a Box



Finish, gold frame, gold reel and red wheels. Wheels are 10 inches in diameter, reel is 5½ inches in diameter, with four crucible steel, oil tempered blades. Pawl ratchets plated in the front wheels.

Victory, Ball Bearing

Width Cut, inches	16	18	20
Each	$21.00	23.00	24.50

One in a Box

LAWN MOWERS

Driving rollers 6½ in. in diameter. Reel 4 in. in diameter, containing seven blades, has combined chain and gear drive. Weight of front part of the machine is carried on a wooden roller running at the rear of the cutter bar. The cutter bar may be placed flat on the sod if desired, and can be kept parallel to the ground until worn out. Mower is fitted with a patent fan elevator, a device that elevates the cut grass easily and positively into a catcher. Best steel ball bearings, set in hardened steel cones.

Townsend's Golf Wonder

Width of cut, inches	16	18
With Grass Catcher attached, each	$45.00	49.00
Without Grass Catcher, each	$40.00	44.00

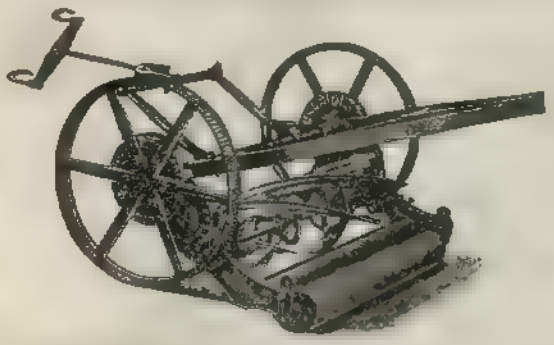
LAWN TRIMMERS

Will cut all the grass left by a lawn mower close to buildings, fences, trees, shrubbery, flower beds, etc. Will do in a few minutes the work it would take hours to do with shears or grass hooks; is invaluable to everyone having a lawn of any extent to keep in condition. Finish aluminum and gold. Four crucible steel blades, 6 inches in length, hardened and tempered. Brass bushing. The shield over the blade protects the flowers.

No. 1—Without edger ..... Each $8.00
No. 2—With edger ..... Each 9.00

One in a Box.

PONY, OR TWO-MAN MOWER



Wheels are 18 inches in diameter and carry the machine over uneven ground without jar to the machinery, insuring a steady, even cut. Reels 8 inches in diameter, with five blades of the best crucible steel, 1⅛ inch wide. Lower knife is very heavy and strong, with the best laid tool steel cutting edge. Wooden roller 4 inches in diameter. Tubular cutter bar, simple adjustment. Best ball bearings set in hardened steel cones. The machine can be thrown out of gear instantly for moving without cutting. Complete for use with pony or two men.

Townsend's Glorious—30 inch cut ..... Each $35.00

HORSE MOWERS

Made very strong and powerful, of the best materials; will cut over very rough and uneven ground, and still get down into the turf and cut its swath clean, easily and smoothly. Triple rolls 15 inches in diameter with triple pawls in each roll, making the most powerful and instantaneous driving mechanism ever put in a lawn mower. A lever beside the driver enables him to cut any height from the ground and to easily and quickly raise the blades over stones or other obstructions. A slight movement of a small lever near the driver throws the mower in or out of gear without stopping the horse. Provided with self-aligning journal boxes, preventing cramping of the journals.

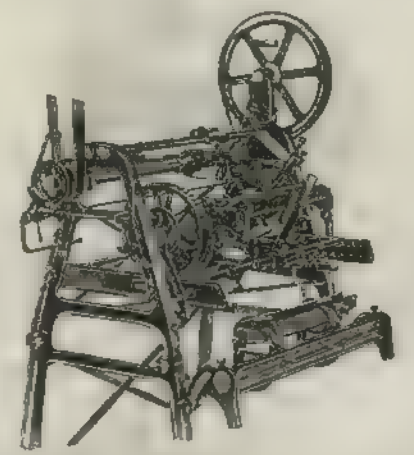
Furnished complete with tool box, seat, handles, shafts and side bar attachment, which keeps the horse on the cut grass.

Townsend's Triple Ratchet

Width of cut, inches	30	36	38
Number of blades	4	4	4
Each	$120.00	$130.00	$150.00

LAWN MOWER GRINDER AND SKATE SHARPENER

IDEAL



The Ideal Grinder is 30 inches wide, and will take in any mower with 24 inch blades, the grinding wheel having a travel of 24 inches. Is furnished with sub-base, which raises the grinder 18 inches above the floor.

The grinding wheel is 5 by ⅝, carried on a ball bearing hub, which makes it easily adjustable for wear and very easy running.

The main driving shaft is of special steel, 1¼ inches diameter, and is key-seated so as to drive the hub mounted between the bearings of the arm. The hub carries a sprocket which drives the grinding wheel by means of a steel chain. The main shaft is ball bearing. Tight and loose pulleys, 4 inches diameter, 1⅝ inch face. Size of electric motor required, ¼ H. P. The skate sharpening and straight blade holder holds the skates so as to grind them concave. Weight complete, 215 lbs.

Power Grinder—With sub-base ..... Each $60.00

LIONEL ELECTRIC TRAINS

INTRODUCTION

Lionel Electric Toys have been **"Standard of the World"** for fifteen years. Today, with electricity in use for every conceivable purpose, it has been applied to toys in a manner which is safe, clean to handle, and which has the effect of instilling into a boy's mind those fundamental principles of mechanics and electricity which may prove so beneficial to him in after life. It is, therefore, no exaggeration to say that **Lionel Electric Toys** instruct and amuse at the same time.

The simplicity with which all outfits are operated, **either on Batteries or from the House Current in conjunction with our Transformers, is proof of the scrupulous care exercised in their construction.**

Two Complete Lines

An extensive assortment of outfits is listed on the following pages, comprising two complete lines; one to operate on **Standard "O" Gauge Track** (1¼ inches wide, making a circle 28 inches in diameter) which is standard the world over, and the other to operate on **Lionel Standard Gauge Track** (2¼ inches wide, making a circle 42 inches in diameter) which has been the standard American gauge track for fifteen years.

The "O" Gauge Track Outfits are superior to any on sale and are distinctly apart from the Lionel Standard Track Outfits. Being smaller they can not contain a motor that is as large and powerful as those embodied in the bigger numbers. The extra width of Lionel Standard Gauge Track enables the larger trains to be operated at higher speed. The larger motors are built of heavier material and will be found more efficient for window display or continuous operation.

While we earnestly recommend our "O" Gauge Track Outfits as being the utmost in value, the difference in price between them and the large Sandard Gauge Numbers is so little that the latter should readily appeal to the buyer.

Construction

All motors are mechanically and electrically perfect. All cars and locomotives are so perfectly constructed that it is not necessary to use any contrivances for reducing speed on curves; for our outfits will operate at a uniform speed, both on the straight track and when rounding curves. They are not top-heavy and will not jump the track even when traveling at high speed. This is a most important feature, especially when outfits are used for window display and are not easily accessible.

Particular attention is drawn to the fact that locomotive and car bodies are constructed of **Sheet Steel**, not cast iron. They are entirely **Hand Enameled**, not lithographed. By adhering to the directions given with every outfit, there is no limit to the length of time they will run. The life of the outfit, namely, the motor, has always received great attention, as the following description of working parts shows. It will be found that this is the last part of any of the various types of locomotives to show signs of wear.

Car Bodies

Just as strict attention is paid in building the **"All-Steel"** car bodies as is devoted to the construction of motors. A durable long running motor is worthy of having a superstructure in keeping with it. The enamel, which coats the bodies, is of the best quality. It will not chip off and can be repeatedly washed, making the cars always appear attractive. Lettering and striping are in gold, and cars are finished with attention to minutest details.

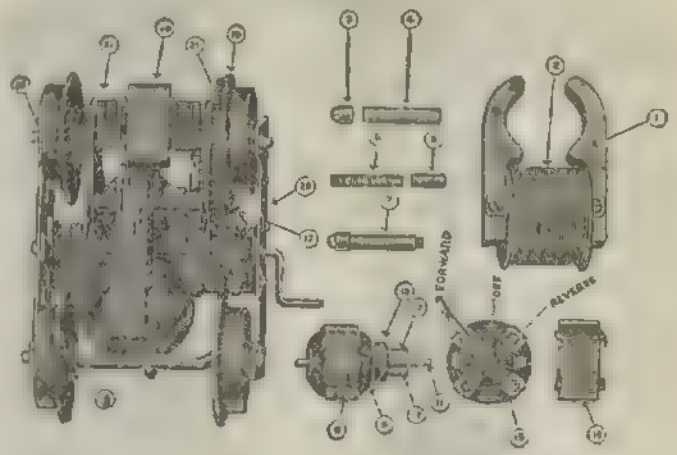
LIONEL ELECTRIC TRAINS

Show Window Display Value

Any of our outfits in operation in a show window will not only tend to increase the sale of train goods, but will draw attention to other merchandise displayed. One advantage of a train display is that only the edges of a window are used. The cost of maintenance is nominal and after the season the entire display outfit can be sold as a toy.

In summing up the construction of any of the numbers listed on the following pages, it can be seen that it is far superior to any similar line. Prices are lower than those charged for inferior goods. Every locomotive is fitted with a Electric Headlight and Lamp Resistance which prevents their readily burning out. This is a great point in making sales, although no extra charge is made for this important feature.

THE MOTOR



Cut Shows easily renewable parts

Following is a description of the working parts of motor cars

COMMUTATOR (13) Solid bronze turning, insulation between segments.

BRUSHES (6) Radial Gauze Phospor bronze with spring feed.

BRUSH HOLDERS (3 and 4) Brass tubes—detachable tops.

ARMATURE (8) Made of electrical steel punchings. Drum wound with double covered silk magnet wire.

FIELD (1) Laminated throughout, perfectly wound and insulated.

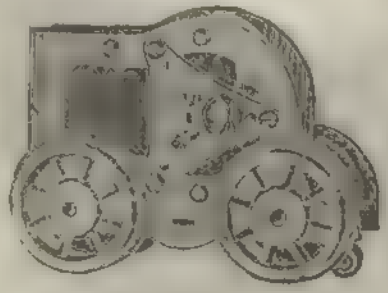
WHEELS (19) Punched of heavy steel.

THIRD RAIL SHOE (14) Case-hardened steel punching. Spring at back regulates pressure against third rail.

PINIONS AND GEARS (16 and 17) Made of steel—absolutely true—mesh perfectly.

CONTROLLER (15) Enables cars so equipped to be stopped, started and reversed.

BEARINGS (21) Made of heavy steel—Phosphor bronze bushings.

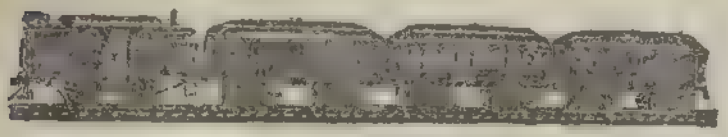


Cut Shows Easily Accessible Brushes

NOTE—The construction of all Lionel Outfits is so perfect that the track does not have to be banked when outfits are used for window display. They will maintain an even speed on straight Track or when rounding curves. No speed checking contrivances are necessary. Cars are not top-heavy and will not jump the track, even when traveling at a high rate of speed.

IMPORTANT—Carefully read the Directions Packed with Every Outfit. Attention to this will Lengthen the Life of the Outfit.

LIONEL ELECTRIC TRAINS



Per Dozen

No. 960—Consists of Electric Locomotive, 8 inches long, 3½ inches Wide; Has 4 wheels and runs in one direction only. One Mail Car, 7½ inches long, 2⅛ inches wide, 3⅛ inches high. Two Pullman Cars, 7½ inches long, 2⅛ inches wide, 3⅛ inches high. One Rheostat Mounted on a steel frame and has a sliding finger which increases or decreases the speed of the trains. All parts are of the best quality. This rheostat cannot overheat as the coil is entirely exposed to the air—insuring free circulation, consequently rapid cooling. **Operates on Standard "O" Gauge Track 1¼ inches wide.** The steel base is beautifully enameled, other parts are nickel plated. Size, 5 inches long, 2½ inches wide and 1 inch high. One Curved Track, One Straight Track, One Crossing, Forming Figure 8 Loop. No. 78 Complete, length of Train 31½ inches; Weight complete, 9¼ lbs **$230.40**

The above Outfit will operate on an Alternating Current only with Transformers Nos. 1032, 1091, 1092, 1093 or 1094 (Page 2604); on a Direct Current with No. 966 Reducer (Page 2604), or on 8 Dry Batteries with Rheostat furnished with outfit.

One Train in a Carton

PASSENGER

Per Dozen

No. 951—Consists of Electric Locomotive with Headlight, sheet steel enameled body, 11 inches long, 1 Pullman car and 1 Observation Car, each 11 inches long, enameled and lettered in gold, together with 8 sections Curved track, making a circle 3½ feet in diameter. **Operates on Lionel Standard Gauge Track 2¼ inches wide.** The contact of Locomotive enables connecting interior lights in Pullman cars. Roofs of cars are removable. This is a popular outfit and should appeal to those who desire an excellent model at a low price. Length of complete train 34 inches. Weight complete 10 lbs. **$275.20**

The above Outfit will operate on an Alternating Current only with Transformers Nos. 1032, 1092, 1093 or 1094 (Page 2604); on a Direct Current only with No. 966 Reducer (Page 2604), or on 4 or 5 Dry Batteries.

One Train in a Carton

FREIGHT

Per Dozen

No. 952—Consists of Electric Locomotive with Headlight, sheet steel enameled body, 11 inches long, 2 Gondola cars, 9½ inches long, and 8 sections Curved track, making a circle 3½ feet in diameter. **Operates on Lionel Standard Gauge Track 2¼ inches wide.** This is a substantially built and low priced outfit. Many boys prefer this because cars can be loaded with sand or other freight. Length of complete train 31 inches. Weight complete 9¼ lbs. **$230.40**

The above Outfit will operate on an Alternating Current only with Transformers Nos. 1032, 1092, 1093 or 1094 (Page 2604); on a Direct Current only with No. 966 Reducer (Page 2604), or on 4 or 5 Dry Batteries.

One Train in a Carton

LIONEL ELECTRIC TRAINS

PASSENGER

Per Dozen

No. 958—Consists of Electric Locomotive with Headlight, sheet steel enameled body, 7 inches long, [illegible] inches long, enameled and lettered in gold, [illegible] track, making a circle 28 inches in diameter. **Operates on Standard "O" Gauge Track 1¼ inches wide.** A controlling rheostat for regulating the speed when outfit is operated on batteries is packed with this outfit. Length of complete train 21 inches. Weight complete, 5 lbs. **$144 00**

The above Outfit will operate on an Alternating Current only with Transformers Nos. 1032, 1091, 1092, 1093 or 1094 (Page 2604); on a Direct Current with No. 966 Reducer (Page 2604), or on 8 Dry Batteries with Rheostat furnished with Outfit.

One Train in a Carton

PASSENGER

Per Dozen

No. 957—Consists of Steam Type Locomotive with Headlight, sheet steel enameled body, 11 inches long, and tender 7 inches long. Locomotive has 4 driving wheels, is equipped with reversing controller and a contact for illuminating Pullman cars. Outfit includes 2 Day Coaches, each 16½ inches long, enameled and lettered in gold. Roofs of Coaches are removable, seats are placed in the interior. Packed with 8 Curved and 4 Straight sections of track, making an oval measuring 15½ feet. **Operates on Lionel Standard Gauge Track 2¼ inches wide.** This is an outfit eminently suitable for window display where space is limited. Length of complete Train is 4 feet 5 inches. Weight complete 16 lbs. **$103.20**

The above Outfit will operate on an Alternating Current only with Transformers Nos. 1032, 1092, 1093 or 1094 (Page 2604); on a Direct Current only with No. 966 Reducer (Page 2604), or on 8 or 10 Dry Batteries.

One Train in a Carton

PASSENGER

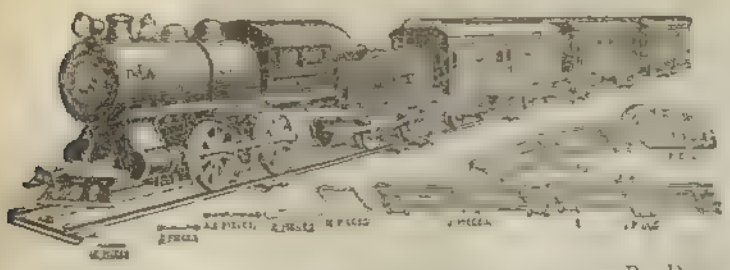
Per Dozen

No. 959—Consists of Electric Locomotive 8 inches long, 3½ inches high, and 2½ inches wide. Has four wheels and runs in one direction only. Two Pullman Cars, 7½ inches long, 2⅜ inches wide, 3⅛ inches high; 8 sections of Curved track; Controlling Rheostat Mounted on a steel frame and has a sliding finger which increases or decreases the speed of the trains. **Operates on Standard O Gauge Track 1¼ inches wide.** All parts are of the best quality. This rheostat cannot overheat as the coil is entirely exposed to the air—insuring free circulation, consequently rapid cooling. The steel base is beautifully enameled and other parts are nickel plated. Size 5 inches long, 2½ inches wide and 1 inch high. Length of Train Complete 23½ inches. Weight Complete 6½ lbs. **$192 00**

The above Outfit will operate on an Alternating Current only with Transformers Nos. 1032, 1091, 1092, 1093 or 1094 (Page 2604); a Direct Current with No. 966 Reducer only (Page 2604) or on 7 Dry Batteries with Rheostat, which is furnished with outfit.

One Train in a Carton

IVES ELECTRIC TRAINS



Per Dozen

No. 978—Electric Train, Consisting of Locomotive 7½ inches long, Tender with Coal, Baggage Car, Chair Car, Parlor Car; The Locomotive has reverse and Headlight with resistance coil to prevent bulb from blowing out; Cars have Swivel Trucks and Automatic Couplers. Eight pieces Curved Track, Five pieces Straight Track, One Terminal Section, Twelve Track Plates, Control Switch and Connecting Wires; Operates on Ives Standard Gauge Track 1¼ inches wide; Weight per Dozen 87 lbs. **$156 00**

The above Outfit will Operate on an Alternating Current only with Transformers Nos. 1982, 1992, 1993 or 1994, on a Direct Current with No. 966 Reducer, or on 8 Dry Batteries. **(See Page 2604)**

One Train in a Box

Per Dozen

No. 977—Electric Train, Consisting of Locomotive, 7½ inches long, Tender, Baggage Car and Chair Car, the locomotive has a Headlight with resistance coil to prevent bulb from blowing out; Eight pieces of Curved Track, Three pieces of Straight Track, One Terminal Section, Twelve Track Plates, Control Switch and Connecting Wires. Operates on Ives Standard Gauge Track 1¼ inches wide; Weight per Dozen 78 lbs. **$132 00**

The above Outfit will Operate on an Alternating Current only with Transformers Nos. 1932, 1992, 1993 or 1994, on a Direct Current with No. 966 Reducer, or on 7 Dry Batteries. **(See Page 2604)**

One Train in a Box

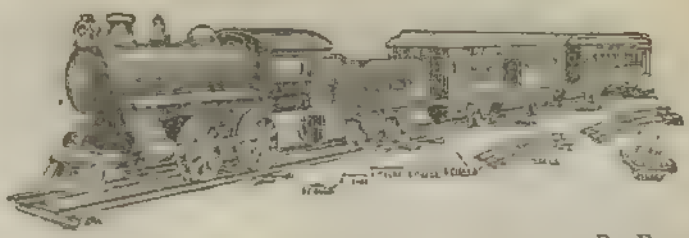
Per Dozen

No. 976—Electric Train, Consisting of Locomotive 7½ inches long, Tender, Baggage Car, Passenger Car, Seven pieces Curved Track, One piece Straight Track, One Terminal Section, Ten Track Plates, Control Switch and Connecting Wires; Operates on Ives Standard Gauge Track 1¼ inches wide; Weight per Dozen 69 lbs. **$108 00**

The above Outfit will Operate on an Alternating Current only with Transformers Nos. 1982, 1992 1993 or 1994, on a Direct Current with No. 966 Reducer, or on 9 Dry Batteries. **(See Page 2604)**

One Train in a Box

IVES ELECTRIC TRAINS



Per Dozen

No. 975—Electric Train, Consisting of Locomotive 6½ inches long, Tender, Baggage Car, Passenger Car; Seven pieces Curved Track, one Terminal Section, eight Track Plates, Control Switch and Connecting Wires; operates on Ives Standard Gauge Track 1¼ inches wide; Weight per Dozen 60 lbs. **$78.00**

The above Outfit will Operate on an Alternating Current only with Transformers Nos. 1982, 1992, 1993 or 1994, on a Direct Current with No. 966 Reducer, or on 7 Dry Batteries. **(See Page 2604)**

One Train in a Box

TRACK AND ACCESSORIES

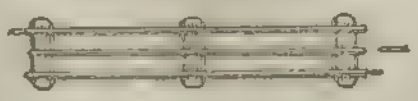
For Use with Ives Electric Trains

TRACK

Per Dozen

No. 979 Curved [illegible] **$2 40**

Loose

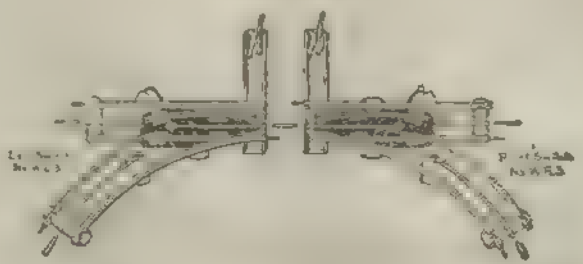


Per Dozen

No. 980—Straight; For Ives Standard Gauge Track. **$2 40**

Loose

SWITCHES

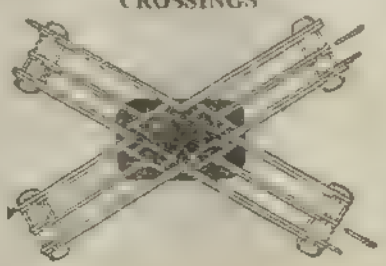


Per Dozen Pair

No. 981—Right and Left for Ives Standard Gauge Track **$36 00**

Loose

CROSSINGS



Per Dozen

No. 982—For Ives Standard Gauge Track **$12.00**

Loose

THE WONDERFUL MUSIKLAND PHONOGRAPH

A Truly Remarkable Talking Machine, Well Constructed, Exceptionally Serviceable and Strictly High Grade in Every Respect. Positively Guaranteed by Manufacturers

List Price
$82.30

MUSIKLAND Brings Joy in Your Home at Less Than One-Fourth the Price Paid For High Priced Phonographs . . . . . .

It is the best Talking Machine or Phonograph that was ever placed on the market for the money.

It plays all kinds of disc records, the most expensive, such as Galli-Curci, Gadski, Caruso, Destinn, Farrar, Martinelli, McCormack, Melba, Schumann-Heink, Tetrazzini, Scotti, Garrison, Alma Gluck, Hempel, Journet, Homer, Braslau, and Ruffo.

It plays all high-class records with full melody and technique, as well as all the musical comedies, such as Harry Lauder and Nora Bayes.

In addition to the above, it plays all the cheaper records as well as Edison with the same attachment, and plays the Hill & Dale records with the same attachment and a steel needle, which very few other phonographs will do.

It is built on scientific principles. Note carefully the description. The cabinet is 41 inches high, 17 inches wide and 19 inches deep. Finished in high-class piano, mahogany finish. It has a violin tone chamber, all wood. No metal. In fact, it is just as beautiful as any of the high priced machines. It holds a large number of 10 and 12-inch records. It has a 12-inch turn table with green felt. A modifier to play loud and softly. Top speed regulator to play fast or slowly, as you choose.

The motor is a cast iron frame with double springworm gear, hand drill workmanship. It will play three or more records with one winding. In fact, it is everything that a high-class phonograph should be, with an advantage over almost all high priced talking machines that you can play all styles of disc records with the same attachment.

The **Musikland** is sold under a positive **Guarantee.** Can be returned for credit at our expense if not fully satisfied after a thorough trial. This is the first high-class floor **Cabinet** Phonograph that has ever been placed on the market within the reach of everybody. Why pay Two Hundred Dollars for a high-grade machine when you can procure the **Musikland** below Fifty Dollars?

The perfection of motor and other mechanical parts were effected only after considerable experiment and research. We are fully satisfied that you will **Marvel** at its **Construction, Operation** and **High Grade Appearance,** and will agree with us that it is the **Best Value Offered for the Money** in any commodity for many "moons."

Mr. Merchant—You should have a sample **Musikland** in stock. Your customers will fairly go into ecstasy when they view and hear this wonderful and magnificent Talking Machine. In addition you will be very enthusiastic. The fact that you will find it exactly as represented will compel you to be active.

Model 100 Musikland Talking Machine. List Price $82.30

CELEBRATED WONDERTONE PHONOGRAPHS

THE NAME "WONDERTONE" IMPLIES JUST WHAT THE INSTRUMENT IS, A WONDER OF TONE PRODUCTION

A WONDER OF SATISFACTION TO PURCHASER — A WONDER AT THE PRICES QUOTED

Equal fidelity of tone reproduction, from the delicate strains of the violin and the soulful vibrations of the human voice to the great aggregation of sound produced by the full orchestra or band, is what distinguishes the WONDERTONE above all its competitors.

Any Victor, Columbia, Edison or Pathe record can be played on the WONDERTONE without any change of equipment. A slight turn throws the sound box into position for playing either style of record.

Two jewel points for playing Edison or Pathe records and 200 needles for playing Victor or Columbia records are part of the regular equipment of the WONDERTONE.

Special Features of the Wondertone

TONE CHAMBER

Like the rare old violins, the amplifying tone chamber of the **Wondertone** is built of resonant wood, specially prepared, and is designed on the latest scientific principles.

TONE QUALITY

Color tones, overtones, as well as the clearest of mellow tones, the perfect reproduction of which, the aim but imperfectly realized by phonographs up till now, has been accomplished in the **Wondertone,** which ranks supreme in tone quality.

TONE ARM

Any kind of record, Victor, Columbia, Pathe or Edison, can be played on the **Wondertone,** without changing the equipment.

PLAYS ALL RECORDS

No. 150 $220.50

50 inches high; 23 inches deep; 21½ inches wide; 12 inch turntable. Racks for 13 Records and Shelves for 2 Albums. Plays seven 10 inch records with one winding.

SOUND BOX

The **Wondertone** sound box, built for free floating motion, produces an even, harmonious tone, and, being of the proper weight and balanced for the closest reproduction of tones, thus prolongs the life of the record.

TONE MODIFIER

No change of needle is required in the **Wondertone** to produce tone modification to suit the most fastidious taste. The volume of sound is increased by the simple moving of the modifier, which is operated while the machine is playing, from the outside of the cabinet.

MOTOR

The **Wondertone** motors are made by skilled mechanics from the best grade of materials obtainable. They will last for years in ordinary use and are controlled by a speed regulator, which controls the speed of the turntable.

PLAYS ALL RECORDS

CABINET

The best artist designers have produced the harmonious and beautiful lines which characterize the WONDERTONE cabinets Selected woods, put together and finished to the highest degree by expert cabinet makers, make a finished product, which for real beauty and good taste makes the WONDERTONE an ornament in any home.

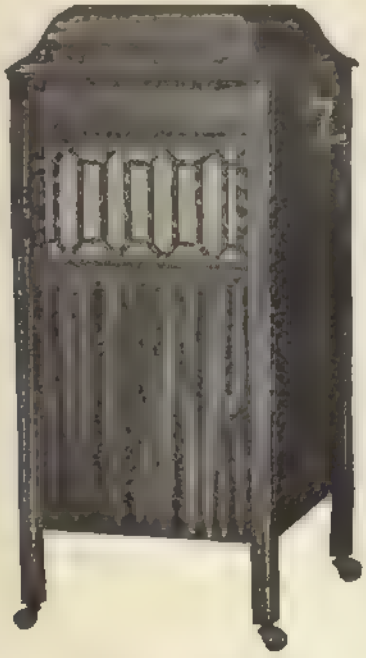
The more the WONDERTONE is compared with other makes of phonographs the more its salient good points will stand out and its superiority over its competitors be demonstrated.

CELEBRATED WONDERTONE PHONOGRAPHS

THE NAME "WONDERTONE" IMPLIES JUST WHAT THE INSTRUMENT IS— A WONDER OF TONE PRODUCTION

A WONDER OF SATISFACTION TO PURCHASER — A WONDER AT THE PRICES QUOTED

PLAY ALL RECORDS



No. 75 $112.00

Height 42½ inches; width, 18 inches, depth 20½ inches, 12 inch turn table.
Plays four 10 inch records with one winding. Racks for 30 records

No. 100 $140.50

Height, 46 inches; width, 21 inches; depth, 20½ inches; 12 inch turn table.
Plays four 10 inch records with one winding. Shelves for five record albums.

No. 125 $168.90

Height, 40 inches; width, 22½ inches, depth, 21 inches 12 inch turn table.
Plays five 10 inch records with one winding. Shelves for seven record albums.

WONDERTONE PHONOGRAPHS WHICH PLAY ALL RECORDS

Have the following equipment:

Tone Arm.—A universal Tone Arm which has an adjustment screw which makes it possible to balance the tone arm for either lateral (Victor or Columbia) or vertical (Edison or Pathe) records. By simply turning the sound box this Tone Arm is ready to play any record, no extra attachment is needed. It has a ball bearing socket which enables it to swing freely in any direction while the tension spring inside the Tone Arm keeps the weight of the Tone Arm off the record.

Sound Box. All three Wondertones are equipped with the best sound boxes obtainable, this insuring perfect reproduction of both vocal and instrumental music.

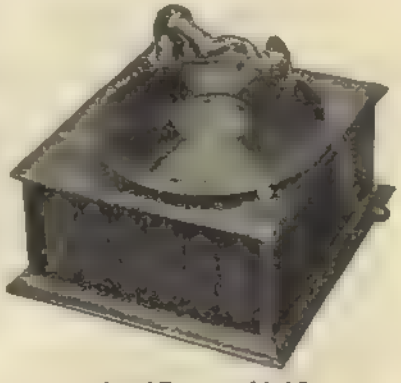
No. 50 $81.80

15 inches high; 20¼ inches deep; 16¾ inches wide, 12 inch turn table.
Plays three 10 inch records with one winding.

Motor.—The motors are double spring worm gear; they can be wound while playing and are of the best and most substantial construction. The turn-tables are twelve inches in diameter and the speed is controlled by a speed indicator and regulator.

Finish.—Extra high class Mahogany. All parts highly nickel plated. Golden Oak or Fumed Oak can be had on special order.

Equipment.—Two jewel points for playing Edison and Pathe records. 200 needles for playing Victor and Columbia records



No. 25 $41.80

7½ inches high; 15 inches deep 15 inches wide, 12 inch turn table.
Plays three 10 inch records with one winding.

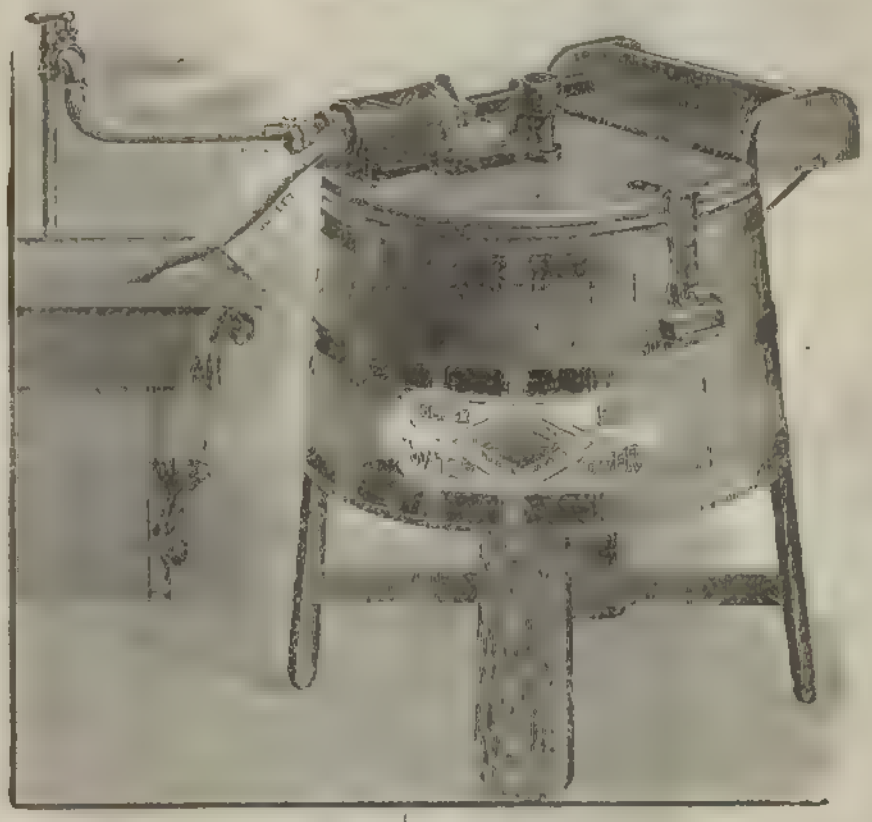
WASHING MACHINES

*NORLEIGH DIAMOND WATER POWER

**Runs by Water Power
The Hard Work and Drudgery
of Washday are Unknown where
this Machine is Used**

Connect the Machine to the Faucet; The Water Pressure Does the Work

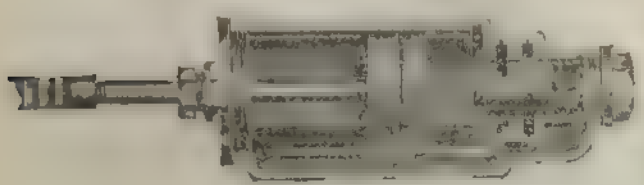
Do not Forget that there is a Limit to the Quantity of Clothes which Can be Washed at One Time and that, to Secure Perfect Results, the Machine Must Not be Overcrowded.



Works to Best Advantage with a Water Pressure of 35 pounds or Over, which Produces 60 Piston Strokes per Minute and by Movements of the Agitator; the Machine will Work with 20 pounds Pressure, which will Produce About 50 to 54 Piston Strokes per Minute, this is Sufficient to Wash Shirts or their Equivalent.

Each

No. 55—Inside Dimensions, Diameter Bottom 23 inches, at Top 20 inches, Depth 12¼ inches, Height to Top of Tub [illegible] Length over All 34 inches; Length of Wringer Beam [illegible] inches. Tub Finished in Malachite Green, Varnished; Hoops, Hinges [illegible] and Bronzed Motor Finished in Red Enamel; Motor Frame, Black Japanned; Complete with Intake and Discharge Hose; Weight [illegible] One in a Crate **$35 00**



Sectional View of Motor

These Views Give an Idea of the Extreme Simplicity of the Motor; Note the Few Parts and that no Packings, Springs, etc., are Used. Size of Motor 8¾x4 Inches.

Sectional View of Cylinder

By a Special Application of the Pressure of Water Power to Develop Power to Run the Washer, Other Types of Water Motors

The Motor, which is Very Simple, is the Most Powerful Made for this Purpose; Entire Motor, Including the Port and All Waterways is a **Solid Bronze Casting** Without Joints and Needs no Packing; [illegible] Packing is the General Source of Trouble in other Motors; the Action of the Valve is Automatic; Cylinder Head Screws in Absolutely Tight, the Pistons are of Solid Brass; a Double Flanged Gear Cap Entirely Covers the Gears, Preventing Accidents; Extra Heavy Cast Bronze Hose Connections, Brand Cast Iron Motor Base of the Over Hung Gear Cover, Added Security in Fastening

The Tub [illegible] Waterproof [illegible] Wood Mallet Driven Rivets, Strongly Reinforced Corrugated Steel Bottom Centers, Patented Hoop Spring, Non-Corrosive Lightweight Brass Hoops, Galvanized Iron Cover, and Metal Edges are Strongly Braced and Will Never Become Shaky.

WATER MOTORS

Extra Motors for No. 55 Norleigh Diamond Water Power Washing Machine.

Each

No. ND55M Consisting of Motor Shaft Pulley [illegible] Tube Complete **$10 00**

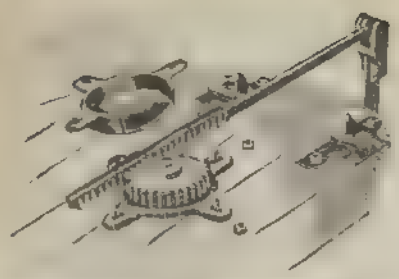
One in a Box

Norleigh Diamond Washing Machines are Sold Only to the Best Retail Trade, Insuring the Merchant Against Unfair Competition

WASHING MACHINES

*NORLEIGH DIAMOND

BALL BEARING — HIGH SPEED



Cut shows View of the Gearing on Back which operates the Agitator

Cut shows Agitator and Inside of Tub with Corrugated Surface

Every Norleigh Diamond No. 22 High Speed Washing Machine is Guaranteed against Defects in Material and Workmanship for a period of Five 5, Years. Repair Parts can be furnished at all times.

Details of Mechanical Construction.

Mechanical Principle—The Novel Mechanical Principal of Construction, that is the Double Lever with Walking Beam Connection, not only equalize the Power, but give greater Speed to the Agitator than any other High Speed Washing Machine.

Ball Bearing—The Ball Bearing used is Simple, set up in Vaseline, so that it will not need Oiling for years and is without question the easiest running gearing on any Washing Machine. It is simple and does not get out of order.

Balance Wheel—Extra Heavy, this part of the machine is especially designed to equalize the power. Makes a powerful Quick Speed, low speed Washer.

Castings—All Castings made of Best Quality Steel, and every Metal Part of the Machine is not only carefully made and Extra Heavy and Strong, but is finished with the Electro Galvanizing or Sherardizing Process. This Finish does not Peel or Chuck as Paint will do and effectually prevents Rust.

Details of Tub Construction.

Tub—Tub made of Best Quality Selected Southern Cypress. Inside Corrugations. Cypress will last longer and give better satisfaction in a Washing Machine than any other wood. The Tub is finished nicely in Natural Wood Finish with a Good Quality of Varnish and is very Strong in construction, the Stave Legs being well braced to prevent leakage.

All Gears are underneath the Tub where they are entirely out of the way; no Gearing or Gearing Cloth-ing.

On account of the Special Ball Bearing together with the Double Lever and Walking Beam Construction, this Washing Machine actually does run easier when loaded than any other High Speed Washer. It not only washes Clothes clean, but on account of the easy running qualities, together with High Speed, any Housewife can get her washing finished much quicker and with less effort than with other Machines.

Each

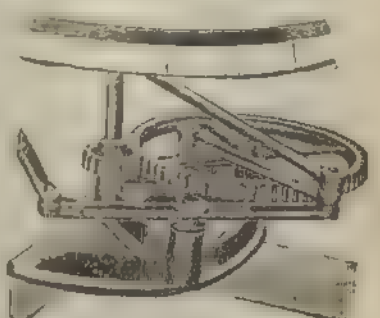
No. 22—Inside Dimensions: Diameter at Bottom 23 inches, at Top [illegible] inches; Depth 12¾ inches; Height to Top of Tub 28½ inches; Height Over All 44½ inches; Length of Wringer Board 15½ inches; Tub Made of Best Quality Cypress, Natural Finish and Varnished; Inside Corrugated Giving a Perfect Rubbing Surface; All Metal Parts Electro Galvanized Finish; Legs Securely Bolted to Body and Strengthened by Heavy Cross Braces **$18.00**

Parcel Post, Weight, Crated [illegible].

Cut shows Under View of Tub; also Gearing, Balance Wheel and Propelling [illegible] Noted Gray Frame, Method of Cross Bracing and Bolting.

Note—This Machine [illegible] Power, or [illegible] Lever is provided at lower end with a Metal Stirrup so that both Hand and Foot Power may be applied.

This Cut shows a Sectional View of the Ball Bearing Feature. The Ball is of Extra Hard Steel and absolutely [illegible] Ball all Friction is practically eliminated.



Cut shows the "Power Plant" of the Machine. It gives a good view of the Double Lever and Walking Beam Construction as exposed by removing Main Shaft on which the Small Pinion is secured.

†WASHING MACHINES

*NORLEIGH DIAMOND

Complete with Ball Bearing Reversible Wringers

NOTE The only difference between these Machines and our No. 22 is that they are constructed to run by Mechanical Power instead of Hand Power and in addition are furnished with Ball Bearing Reversible Wringers. Material and Finish is exactly the same as the Hand Power Machine, also Dimensions of Tub.

WRINGERS—The Wringer furnished with these Machines is the Highest Grade manufactured; It is Ball Bearing, will operate in either direction by moving Gear Lever is fitted with the Very Best Quality "Five Year Rubber Rolls" and with proper care will last a lifetime. An extra large Drain Board is furnished for use when wringing from Blueing Water to top of Tub. Wringer will run at same time that the Washing Machine is in operation or Independently of it.

GASOLINE POWER

Especially adapted for Farms or other use where a Gasoline Engine is available, although it may be used with any other Mechanical Power, such as Steam or [illegible].

The operation of this Machine is simple to the extreme, as there is nothing about it to get out of order. The Main Belt Drive Wheel is located underneath the Tub. This does away with any possibility of the Operator's Skirts catching in Belt or Shafting. On account of being equipped with a Power driven Wringer, it relieves Wash day of every particle of Work, of which the wringing has heretofore been the hardest part.

The Cost of Operation is so small that it can hardly be correctly estimated; Five cents will be more than enough to cover the cost of Gasoline consumed in turning out the heaviest Family Washing.

Each

† No. 66—Complete as shown above but without Belt; Drive Pully 10x1¾ inches; requires belt 1¾ inches Wide. Should be run about 350 Revolutions per minute; Cost of operation about Five (5) cents per week $37 00

One in a Crate; Weight Crated 158 lbs

ELECTRIC POWER

With Self Contained Motor

Note—Very Important, Read Carefully—This Machine is regularly furnished with Alternating Current Motor, 110 Volt 60 Cycle, but can be supplied with Direct Current 110 Volt Motor at the same price. However, if any odd-cycle Alternating Current Motor or other voltage Direct Current Motor is ordered the cost will be slightly more and we can give a special quotation on receipt of [illegible]. It is always necessary to specify on your order for Electric Washing Machines the current, voltage and cycles of the electric current with which the Washing Machine is to be used.

The Wringer together with the Motor is mounted underneath the Tub on a heavy Iron Bracket which also acts as a Brace for the Legs. The Motor is of ample strength to run either the Washing Machine alone or the Machine and Wringer at the same time at the [illegible] speed. It is the best Motor manufactured today for Washing Machines and is thoroughly dependable.

After connecting the extension Cord to any ordinary Electric Light Socket, the Agitator is started by turning to the right the Lever Handle nearest to the Motor on the side of the Tub. The Wringer is started in the same way by the Lever provided for the purpose.

Each

† No. 76—Complete as shown above [illegible] so that Machine may be [illegible] about [illegible] operation about Two (2) cents per hour $82 00

One in Crate; Weight Crated 185 lbs.

Items Marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, F. O. B. Chicago, Ills.

BRIDLE BITS

PORT

GUN METAL

Solid Gun Metal, Gold Color; Ornamented with Solid Nickel Buffalo Head; 1⅛-inch Cheek Rings; 5-inch Mouth with 1¼ inch Port Fitted with Heavy Cast Brass Roller.

Per Dozen

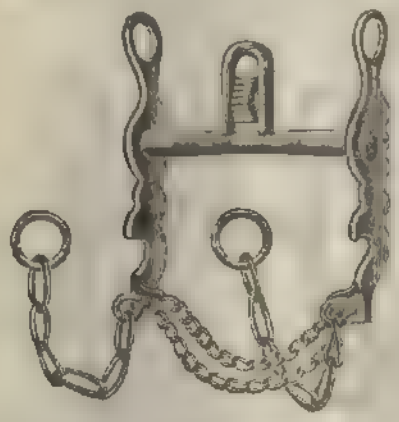
✣ **No. 1895**—6¾-inch Cheeks; Weight per Dozen 12 lbs..... **$55 00**

GUN METAL

Solid Gun Metal Cheeks, Gold Color; Cheeks Ornamented with Solid White Nickel Buffalo Head; 1⅛-inch Cheek Rings; 5-inch Mouth; Height of Port 2 inches.

Per Dozen

✣ **No. 1897**—6¾-inch Cheeks; Weight per Dozen 17 lbs..... **$55 00**



COWBOY

Malleable Iron; Cheeks and Mouth in one piece; 1-inch Cheek Rings; 5-inch Mouth with 1¾-inch Port and Malleable Roller; 6½-inch Cheeks; With Curb Chains and 7-inch Twist Link Rein Chains with 1⅛-inch Rings.

Per Dozen

✣ **No. 1500**—XC Plate (Tinned); Weight per Dozen 17 lbs..... **$17.00**

Half Dozen in a Box

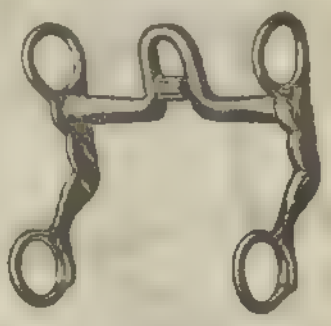
Twelfth Dozen in a Box

Forged Steel, Polished; Chased Cheeks; Cheeks and Rings in One Piece; 1⅛ inch Cheek Rings; 5 inch Mouth with 2¼ inch Port fitted with Heavy Cast Brass Roller.

Per Dozen

No. 1884—6 inch Cheeks, Weight per Dozen 10 lbs..... **$18.00**

Half Dozen in a Box



Malleable Iron; Cheeks and Mouth Riveted; 1 inch Cheek Rings; 5 inch Mouth with 1¾ inch Port Fitted with Copper Roller; 4¾ inch Cheeks.

Per Dozen

No. 994N—Nickel Plated; Weight per Dozen 8 lbs..... **$15 50**

No. 994P—Polished; Weight per Dozen 8 lbs **9 00**

Half Dozen in a Box

SPURS

GUN METAL

Solid Gun Metal, Gold Color; Burnished and Engraved; Silver Nickel Spots and Rowels, Turned up Bows, 1 inch Turned Down Shank, 1¾ inch Rowel; Two Buttons.

Per Dozen Pair

No. 1510½—Burnished and Engraved; Weight per Dozen 6 lbs..... **$58.00**

One Pair in a Box

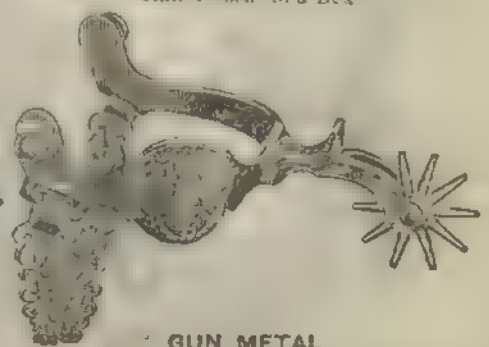
GUN METAL

Solid Gun Metal, Gold Color; Ornamented with Solid Nickel Horse Head Rowel, Turned up Bows; Two Chains attached to Sheet Metal Loop, 2 inch Turned Down Shank 1¾ inch Rowel; Two Strap Buttons.

Per Dozen Pair

No. 1517—Solid Gun Metal; Weight per Dozen 8 lbs **$84 00**

One Pair in a Box



GUN METAL

Solid Gun Metal, Gold Color; Ornamented with Solid Nickel Buffalo Head Rowel, Two Chains attached to Two Sheet Metal Loops Turned up Bows, 2 inch Turned Down Shank 1¾ inch Rowel; Two Strap Buttons.

Per Dozen Pair

No. 1522—Solid Gun Metal; Weight per Dozen 8 lbs..... **$84.00**

One Pair in a Box

Not Carried in Stock; Can only be Furnished by Shipping Direct from Factory.

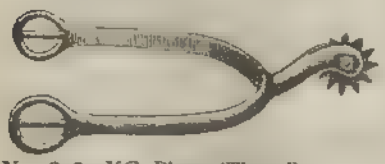
SPURS

ENGLISH

Cast Brass, Polished; 1 inch Turned-up Shanks; Blued Stamped Steel Rowel; ½ inch Strap Loops.

Nos.	8	9	10	11
Width Betw. Bows in...	2¼	2½	2¾	3
Diam. of Rowel, in.....	¾	¾	¾	1
Wt. per Doz., lbs.....	1¾	2	2¼	2¾
Per Dozen Pair	$11 00	13 00	14 00	16 00

One Pair in a Box



ENGLISH

Malleable Iron; 1 inch Turned up Shank; ¾ inch Blued Stamped Steel Rowel; ½ inch Round Strap Loops.

Per Dozen Pair

No. 2/0—XC Plate (Tinned)..... $5 00

Weight per Dozen 1⅝ lbs.
One Pair in a Box

BAND

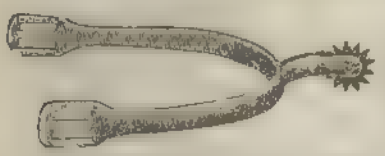
Stamped Steel Bows; 1¼ inch Stamped Turned-up Shanks; 1¼ inch Blued Stamped Steel Rowel; ½ inch Strap Loops.

Per Dozen Pair

No. 1017½—XC Plate: Tinned..... $10.50

No. 1017½N—Nickel Plated 9.50

Weight per Dozen 2 lb.
One Pair in a Box



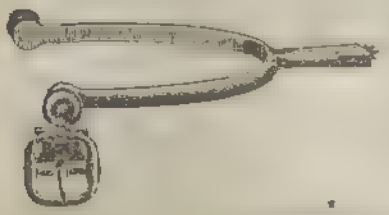
BAND

Malleable Iron; 1 inch Turned [illegible] inch Blued Stamped Steel Rowel; ½ inch Square Strap Loops.

Per Dozen Pair

No. 2006—XC Plate (Tinned). $5 00

Weight per Dozen 1¾ lb.
One Pair in a Box



RACE

Malleable Iron; 1¼ inch Straight Shank; ½ inch Blued Stamped Steel Rowel; Set Horizontally; Two Strap Buttons and One ½ inch Buckle.

Per Dozen Pair

No. 57—Nickel Plated and Polished..... $28 00

Weight per Dozen ¾ lb.
One Pair in a Box

INDIANOLA

Malleable Iron; 1¼ inch, Turned-up Shank, 1⅛ inch Malleable Iron Rowel; Two Strap Buttons.

Per Dozen Pair

No. 12—Blued $7 00

Weight per Dozen 2 lbs.
One Pair in a Box

EUREKA

Stamped Steel; 1 inch Malleable Horseshoe Shank, 1½ inch Bright Stamped Steel Rowel; Four Strap Buttons.

Per Dozen Pair

No. 3—Nickel Plated..... $10 00

Weight per Dozen 3¼ lbs.
One Pair in a Box

SPURS

O. K.

Malleable Iron; 1⅜ inch Turned-up Shank; 1½ inch Blued Stamped Steel Rowel; Four Strap Buttons.

Per Dozen Pair

No. 85—Blued..... $15.50

Weight per Dozen 4 lbs.
One Pair in a Box

★BLUE DIAMOND

Malleable Iron; 3 inch Curved Shank; 1⅜ inch Fancy Blued Steel Rowel; Four Strap Buttons.

Per Dozen Pair

No. 1176½—Blued $15 50

Weight per Dozen 3¾ lbs.
One Pair in a Box

OKLAHOMA

Malleable Iron; 2 inch Turned up Shank, 1⅜ inch Fancy Blued Steel Rowel; Two Hinged Strap Buttons.

Per Dozen Pair

No. 1492—Blued. $20 00

Weight per Dozen 4 lbs.
One Pair in a Box

TEXAS

Forged Steel; 2 inch Straight Shank; 1⅝ inch Malleable Iron Blued Rowel; Turn-up Bows; Four Steel Strap Buttons.

Per Dozen Pair

No. 1500—Polished..... $30.00

Weight per Dozen 6 lbs.
One Pair in a Box

★BLUE DIAMOND

Malleable Iron; 2 inch Turned-up Shank 1⅜ inch Fancy Blued Steel Rowel; Four Strap Buttons.

Per Dozen Pair

No. 1491½—Blued..... $15.50

Weight per Dozen 3 lbs.
One Pair in a Box

★BLUE DIAMOND STAR ROWEL

Malleable Iron; 2 inch Turned up Shank; 1⅜ inch Fancy Blued Steel Star Rowel; Four Strap Bottons.

Per Dozen Pair

No. 1182—Blued $15.00

Weight per Dozen 3 lbs.
One Pair in a Box

GUN METAL

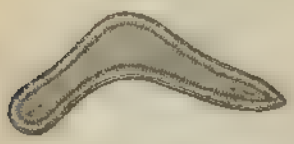
Solid Gun Metal, Gold Colored, Steel Rowel 1¼ inches in Diameter, Turned-up Bows, Straight Shank Two Buttons.

Per Dozen Pair

No. 1528—Gun Metal..... $18 00

Weight per Dozen about 4 lbs.
One Pair in a Box

SPUR STRAPS



MEXICAN

Russet Strap Leather, Fancy Hand Stamped

Per Dozen

No. M—Length 11½ inches; Weight per Dozen 1 lb..... $4.00
Half Dozen in a Bundle

ENGLISH

Russet Strap Leather, Creased Edge XC Plate (Tinned) Buckle, Riveted on; Width ½ inch.

Per Dozen

No. E—Length 16 inches; Weight per Dozen 4½ ozs.....$1.50
Two Dozen in a Bundle

EUREKA

Russet Strap Leather, Plain; XC Plate (Tinned) Buckle and Leather Billet Riveted on.

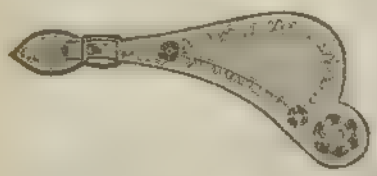
Per Dozen

No. U—Length of Body 9 inches; Billets 7 inches, Weight per Dozen ¾ lbs..... $2 00
Two Dozen in a Bundle

WESTERN

Per Dozen Pair

No. 433—Good Grade Russet Leather; Hand Stamped Border and Rosette; Adjustable Leather Eye; Tinned Roller Buckle; Weight per Dozen Pair 2¼ lbs..... $9.00
One Dozen in a Box



WESTERN

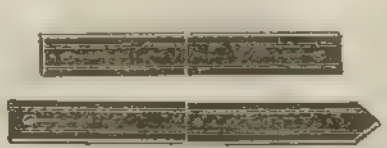
Per Dozen Pair

No. 736—Best Quality Selected Russet Leather; Hand Stamped Border and Rosette; Adjustable Leather Eye; Tinned Roller Buckle; Weight per Dozen Pair 2½ lbs... $14.50
One Dozen in a Box

INDIANOLA

Per Dozen

No. A—Good Grade Russet Leather; Roller Buckle; Adjustable, Weight per Dozen 1 lb..... $8 00
One Dozen in a Box

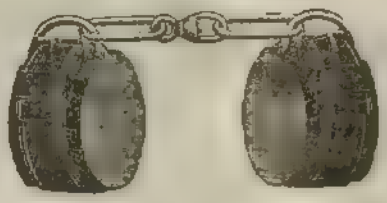


RACE

Per Dozen

No. R—For use on our No. 57 Race Spurs only; **Consists of Two Pieces**; ½ inch Creased Edge; Heavy Black Leather Straps; Long Strap 13 inches; Short Strap 6½ inches; Weight per Dozen 1 lb..... $3 50
One Dozen in a Box

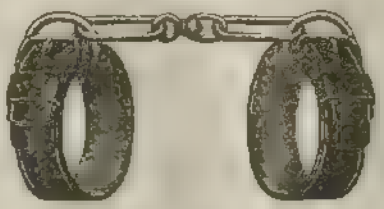
HOBBLES



IDAHO

Per Dozen Pair

No. 1—Best Black Harness Leather; 1¼ inch Strap, Creased Edge; Riveted at Ring; Black Japanned Roller Buckle and Sliding Leather Loop; 2 inch Plain Safe, Riveted in; 6 inch Chain; Malleable Dees and Swivel, Wrought Iron Links, Bright Finish, Weight per pair 1 lb.; Weight per Dozen Pair 13½ lbs.$24.00
Third Dozen Pair in Bundle



SINGLE STRAP

Per Dozen Pair

No. 7—Best Black Harness Leather; 1¼ inch Strap, Creased Edge; Riveted at Ring; Black Japanned Roller Buckle and Sliding Leather Loop; No Safe; 6 inch Chain; Malleable Dees and Swivel; Wrought Iron Links, Bright Finish, Weight per Dozen Pair 10½ lbs..... $18 20
Third Dozen Pair in a Bundle

HORSE BOOTS

★NORLEIGH DIAMOND

SINGLE STRAP ROAD

Extra Good Grade Hard Pressed Russet Leather Cup; Hair Felt Padded at Top with Soft Leather Covering; ½ inch Creased Edge Russet Leather Strap Riveted on; Black Japanned Roller Buckle with Safe Underneath; Heavy Olive Green Felt Pad on Sliding Loop on Strap..

Per Dozen

No. 504—Regular 3½ inches Wide; 5½ inches High; Weight Each 2 oz.; Weight per Dozen 2¼ lbs..... $4.50

No. 505—Large 4 inches Wide; 5¾ inches High; Weight Each oz.; Weight per Dozen 2½ lbs..... 6.50
One Dozen in a Box

DOUBLE STRAP ROAD

Per Dozen

No. 515—Extra Heavy Hard Pressed Russet Leather Cup; Heavy Blue Felt Lined; Two ½ inch Creased Edge Black Leather Straps Sewed on; XC Plate (Tinned) Bar Buckles; All Sewed with Best Heavy Linen Thread; Width of Cup 4 inches; Height 5⅝ inches; Weight Each 2½ oz. Weight per Dozen 2½ lbs.... $7.00
One Dozen in a Box

QUICKER YET.

OUR TERRITORY—All of Minnesota, North and South Dakota, and Montana. The following part of Wisconsin: North and West of line of railroad running from La Crosse to Tomah to Grand Rapids to Wausau to Ironwood, Michigan.

A machine that combines all the best qualities of heretofore good washers, with several new and unattained features. Built on right principle, a principle that enables it to start easy, operate easy and accomplish great results; runs smoothly and noiselessly, without friction. The workmanship of this machine is unsurpassed; in appearance it is one of the neatest and most attractive on the market.

The Mechanism. The momentum is self gathered; that is, produced by the action of the mechanism, not by the fly wheel. The mechanism is so perfectly balanced that it makes a continuous distribution of power free from any jerky action.

On starting the machine, the mechanical parts respond to centrifugal action; can be started from any position of the handle instantly and easily. Dead centers are impossible, as there are no highly geared balance wheels, or unnecessary weights to carry.

It is free from friction, as the main shaft which carries the momentum gathering device is ball bearing. The greatest amount of power comes from the least effort, as the distance from fulcrum to handle is longest, and from fulcrum to leverage point is shortest.

It's different from all other machines in that all its mechanism except the guarded racker operating the dolly, is underneath the tub out of the way—bolted to the legs. There's not a screw, bolt or rivet below the water line to rot or cause annoyance or damage.

The Dolly. The dolly or dasher, instead of being loose on the post, as in other machines, is constructed of one solid piece, operating absolutely in unison.

This eliminates the holding down of the post in bottom of tub, and the twisting, straining and tangling that ruins the clothes. To get a new grip on the clothes, lift the dolly by the ring at top of lid, and let it drop. There are no exposed parts and all your clothes are insured against rough treatment.

The Tub. The tub is made of best grade kiln dried Louisiana Red Cypress. It can neither shrink, swell nor warp, as it is shrunk to the least possible density. It is reinforced at center by a tie rod of quarter-inch round steel, with nuts on each end.

The hoops are made of steel, electrically galvanized and fitted around the tub in such a manner that water cannot get underneath to effect them in any way.

The legs are continuous, making a solid base that cannot work loose or come off, as they are part of the tub itself.

The wringer box is absolutely water tight and is so constructed that all drainage returns to the tub.

The cover is absolutely tight and can be raised or lowered without disconnecting or without removing the wringer.

Finish. Tub, wringer box and legs are finished in natural wood color and varnished; hoops and mechanism in royal blue.

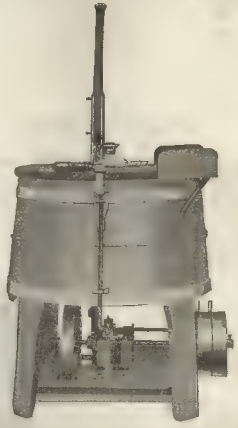
HAND.

Each

No. QYH — Quicker Yet, hand power; height over all, 38 inches; diameter of tub, inside top, 20 inches; diameter of top, inside bottom, 22½ inches; height of tub inside, 12½ inches; weight crated, 90 lbs. **$30.00**

One in a crate

COMBINATION HAND AND ENGINE POWER.



The only combination washer built with a tight and loose pulley. This permits the machine to be thrown in and out of operation without stopping the engine. The main shaft is mounted on steel roller bearings and has two cut gears. It is the most easily operated machine built.

Each

No. QYHP — Quicker Yet, combination hand and engine power; height over all, 38 inches; diameter of tub, inside top, 20 inches; diameter top inside bottom, 22½ inches; height of tub inside, 12½ inches; weight crated, 132 lbs. . **$36.00**

One in a crate

NOTE—For Quicker Yet Repair Parts see page 1622.

WASHING MACHINES.

QUICKER YET, SNOW WHITE.

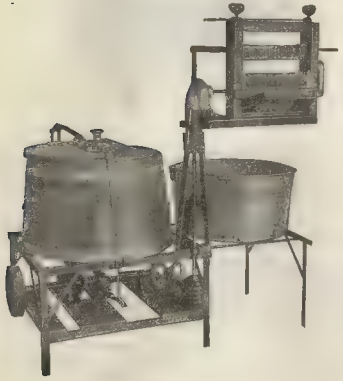
Gear and shaft driven throughout. Gears cannot get out of alignment as they run in bearings or boxings cast in one frame. All parts subject to severe strain are malleable cast or mild steel. No bolts or screws through tub.

Fitted with an especially made, any position, reversible, swinging wringer with twelve-inch best quality wringer rolls. Handy lever controls operation of wringer. Safety roll release allows the rolls to be instantly thrown apart. Wringer will clear stationary laundry tub of standard height.

A substantial angle steel machine riveted frame well braced. Made of heavy one-inch material. Extension slides underneath the machine tub when not in use. Twenty-four by twenty-seven inches is floor space required when not in use.

The choicest Louisiana red cypress is used exclusively in the manufacture of Quicker Yet tubs. Inside of tub corrugated. Cypress is not subject to excessive warping, shrinking or splitting, and does not give forth an odor. Threaded metal drain faucet allows easy draining of tub. Quicker Yet cross-arm dolly gets a firm grip on the clothes, does not damage them and is very thorough in its action of whirling the clothes back and forth through the hot soapy water, thus cleansing them quickly. Being made entirely with the straight grain of the wood splitting is obviated. Dolly is fastened stationary to dolly shaft and adjusts itself automatically to clothes in tub. Dolly shaft does not protrude into the clothes.

The tub is beautifully finished in the natural wood, as is also the wringer. Metal parts that are likely to come in contact with the washing are galvanized. All other metal parts are finished in gold bronze and black. The frame is enameled in black. The entire machine is finished like a piece of high grade furniture.

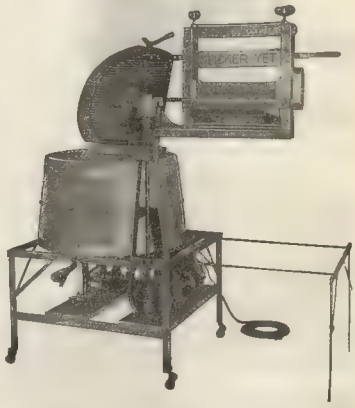


POWER.

Each

No. QYSP—Quicker Yet Power; single tub, with extension for tub or basket; equipped with power pulley; weight complete. 185 lbs. **$82.00**

One in a crate.



ELECTRIC.

Each

No. QYSE—Quicker Yet Electric; single tub, with extension for wash tub or basket; equipped with one-quarter H. P. motor, 110 volt, 60 cycle; weight of machine complete, 225 lbs. **$147.00**

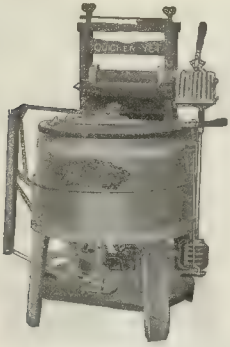
One in a crate.

NOTE.—Our stock is 110 volt, 60 cycle, alternating current; other voltage or current will be shipped from factory and charged for on basis of cost at factory on date of shipment.

For Quicker Yet Repair Parts, see page 1622.

QUICKER YET.

POWER



For use with gasoline engine, this is the machine premier in appearance and equipment.

Has the famous cross arm dolly, the greatest suds maker. It churns hot soapy water through the clothes, making them spotlessly clean.

Tub. The tub is made of carefully selected Louisiana red cypress, upon which water has no effect; legs securely bolted and braced with angle iron.

Mechanism. The mechanism is securely bolted to a platform underneath the tub, entirely out of the operators way; bearings cast together; worms and gears encased; controlling levers for both washer and wringer operated by hand, no foot levers. Lid may be raised or lowered without disconnecting any of the parts. Lid is locked while machine is in operation; lever controlling this lock throws the clutch so that when tub is opened machine is stopped.

Wringer. The wringer is highest grade, ball bearing, reversible, shaft driven, positive and equipped with 5 year guaranteed rolls. It may be operated while the washing mechanism is in motion or while the machine is at a standstill; can be stopped or reversed while the machine is in motion.

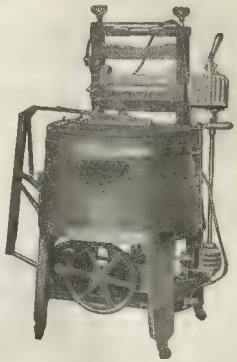
Finish. Beautifully finished in the natural wood; metal parts in blue and aluminum bronze.

Each

No. QYP—Quicker Yet. Height over all, 44 ins.; diameter of tub, inside top, 20 ins.; diameter tub, inside bottom, 22½ ins; height of tub, inside, 12 ins.; weight crated, 145 pounds..... **$63.00**

F. O. B. St. Paul

ELECTRIC



A late type machine combining all the best features of good washers.

Equipped with one-fourth horse power 1-10 Emerson Special motor and is specially wound to overcome momentary overloads.

Tub. The tub is made of carefully selected Louisiana red cypress, upon which water has no effect; legs securely bolted and braced with angle iron.

Mechanism. The mechanism is securely bolted to a platform underneath the tub, entirely out of the operators way; bearings cast together; worms and gears encased; controlling levers for both washer and wringer operated by hand, no foot levers. Lid may be raised or lowered without disconnecting any of the parts. Lid is locked while machine is in operation; lever controlling this lock throws the clutch so that when tub is opened machine is stopped.

Wringer. The wringer is highest grade, ball bearing, reversible, shaft driven, positive and equipped with 5 year guaranteed rolls. It may be operated while the washing mechanism is in motion or while the machine is at a standstill; can be stopped or reversed while the machine is in motion.

Finish. Beautifully finished in the natural wood; metal parts in blue and aluminum bronze

Each

No. QYE—"Quicker Yet." Height over all, 44 ins.; diameter of tub, inside top, 20 ins.; diameter of tub inside bottom, 22½ ins.; height of tub, inside 12 ins.; weight crated, 165 lbs..... **$126.00**

One in a crate.

NOTE—Our stock is 110 volt, 60 cycle, alternating current; other voltage or current will be shipped from factory and charged for on basis of cost at factory on date of shipment.

For Quicker Yet Repair Parts, see page 1622.

SILVER PLATED ON *NICKEL SILVER* | TRADE **R.&B.** MARK | *FINISHED IN* FRENCH GRAY

THE JEWEL PATTERN

SPOONS

No. 6288	Tea, one dozen in unlined box	Per dozen	$ 3.70
No. 6289	Dessert, one dozen in unlined box	Per dozen	6.65
No. 6290	Table, one dozen in unlined box	Per dozen	7.40
No. 6291	Five O'clock Tea, one dozen in unlined box	Per dozen	3.70
No. 6292	Five O'clock Tea, half dozen in lined box	Per dozen	4.90

FLAT HANDLE FORKS

No. 6293	Medium, one dozen in unlined box	Per dozen	$ 7.40
No. 6294	Dessert, one dozen in unlined box	Per dozen	6.65

SOLID HANDLE STEEL KNIVES, SILVER PLATED

No. 6295	Medium size	Per dozen	$ 6.80
No. 6296	Dessert size	Per dozen	6.55

Packed one half dozen in box.

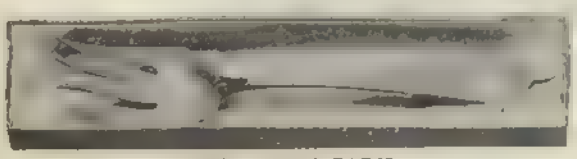
CHILD'S SET

No. 6297 Three pieces in lined box..... Per set $1.50

Illustrations Actual Size

Solid Handle Steel Fruit Knives, Silver Plated

No. 6298 Packed one-half dozen in box... Per dozen $6.15



COLD MEAT FORK

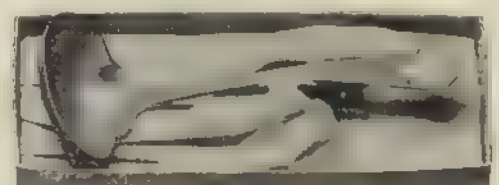
No. 6299 One in lined box..... Each $1.30

Butter Knife and Sugar Shell

No. 6300 Two pieces in lined box..... Per set $1.50

BERRY SPOON

No. 6301 One in lined box..... Each $1.75



LADLES, One each in lined box

No. 6302	Cream, plain	Each $1.20
No. 6303	Gravy, plain	Each 1.50
No. 6304	Medium Soup	Each 4.15

Illustrations One-Third Size

SILVER PLATED ON *NICKEL SILVER*

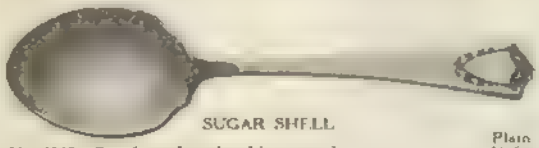
TRADE **R.&B.** MARK

FINISHED IN FRENCH GRAY

THE JEWEL PATTERN

BOUILLON SPOON
No. 6305 One dozen in unlined box, per doz $6.70
No. 6306 Half dozen in lined box, per doz 7.60

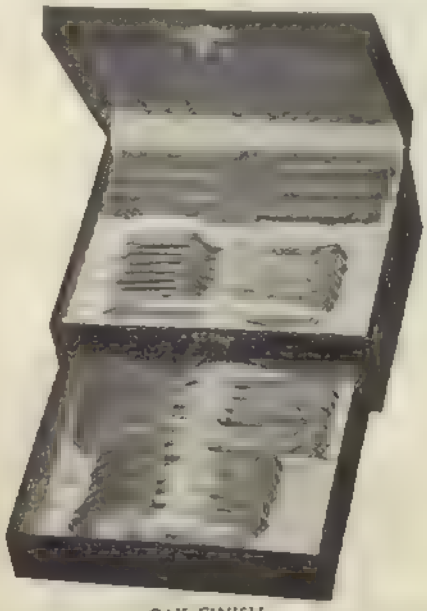
COFFEE SPOON
No 6309 One dozen in unlined box, per doz $3 70
No 6310 Half dozen in lined box, per doz 4 15



SUGAR SHELL
Plain
No. 6312 One dozen in unlined box, per doz $6 65
No. 6313 One each in lined box, each 80

INDIVIDUAL SALAD FORKS
No. 6316 One dozen in unlined box, per doz $7 45
No. 6317 Half dozen in lined box, per doz 8.70

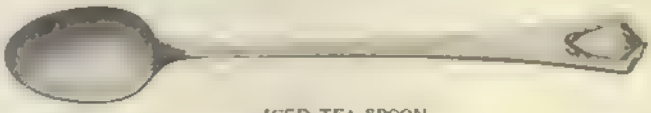
BUTTER SPREADER
No. 6320 One dozen in unlined box, per doz $6 65
No. 6321 Half dozen in lined box, per doz 7 05



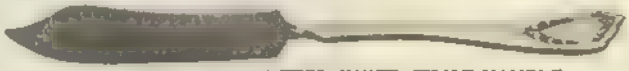
OAK FINISH
No. 6329 In Oak Chest, twenty-six pieces, containing six Tea Spoons, six Table Spoons, six Solid Handle Medium Knives, six Medium Forks, one Butter Knife, one Sugar Shell, $16 30
No. 6330 Same as above in Flat Leatherette Case 15 15
No. 6331 Same as above in Paper Chest 15 15

Illustrations One-Fifth Size

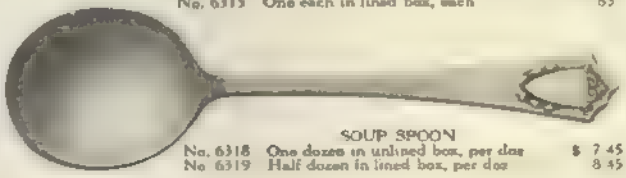
ORANGE SPOON
No. 6307 One dozen in unlined box, per doz $6 45
No. 6308 Half dozen in lined box, per doz 6 80



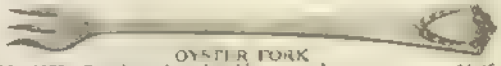
ICED TEA SPOON
No. 6311 One dozen in unlined box, per doz $5 65



BUTTER KNIFE, TWIST HANDLE
No. 6314 One dozen in unlined box, per doz $7 45
No. 6315 One each in lined box, each 85



SOUP SPOON
No. 6318 One dozen in unlined box, per doz $ 7 45
No 6319 Half dozen in lined box, per doz 8 45



OYSTER FORK
No. 6322 One dozen in unlined box, per doz $6 45
No. 6323 Half dozen in lined box, per doz 6.60

BABY SET
No 6324
Spoon and Feed Pusher
Per set, $1 30

BABY SPOON
No. 6325 One in lined box, each $0 65

FOOD PUSHER
No. 6326 One in lined box, each $0 65

PICKLE FORK
No 6327 One in lined box, each $1 00
No 6328 Twelve in unlined box, per doz . . 8 90

Illustrations One-Half Size

No. 6332 Six Medium Knives, Six Medium Forks, in rack box, per set $7 15
No. 6333 Six Dessert Knives, Six Dessert Forks, in rack box, per set.... $6.60

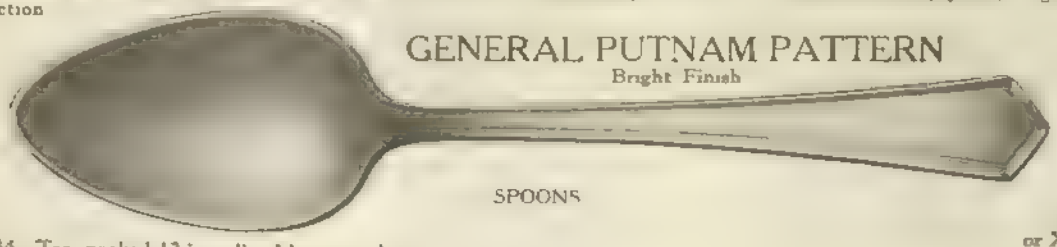
Illustration One-Third Size

HEAVY WEIGHT
SECTIONAL PLATE
ON STAPLE PIECES

TRADE MARK
ROGERS

WM. ROGERS MFG. CO.
INTERNATIONAL SILVER CO.
SUCCESSOR

Silver plated flatware ROGERS is heavily silver plated on the finest quality nickel silver base. All Tea, Dessert and Table Spoons, Dessert and Medium Forks stamped "ROGERS XII" are plated XII or Sectional Plate on parts most exposed to wear, and are guaranteed by the manufacturer as they have been for more than fifty years, to give perfect satisfaction.



GENERAL PUTNAM PATTERN
Bright Finish

SPOONS

		Sectional or XII Plate
No. 6334	Tea, packed 12 in unlined box, per dozen	$ 7.15
No. 6335	Dessert, packed 12 in unlined box, per dozen	12.75
No. 6336	Table, packed 12 in unlined box, per dozen	14.30

FLAT HANDLE FORKS

No. 6337	Medium Sectional or XII Plate, packed 12 in unlined box, per dozen	$14.30
No. 6338	Dessert Sectional or XII Plate, packed 12 in unlined box, per dozen	12.75

HOLLOW NICKEL SILVER HANDLE KNIVES AND FORKS
Heavy Silver Plate. Trade Mark, Wm. Rogers Mfg. Co.

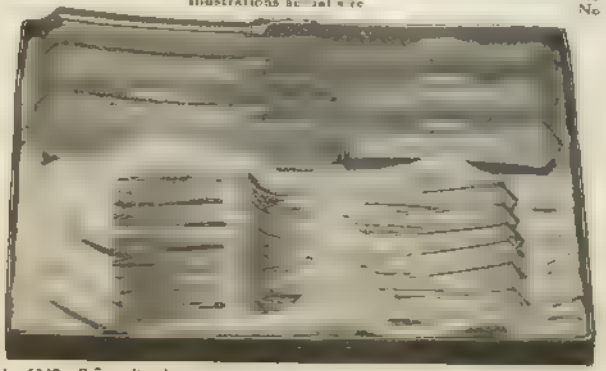
No. 6339	Medium, packed one-half dozen in lined box, per dozen	$28.30
No. 6340	Dessert, packed one-half dozen in lined box, per dozen	26.65

Illustrations actual size

SOLID HANDLE STEEL KNIVES, STYLE A, AND STAINLESS SILVER FORKS

No. 6341	Medium 12 dwt., packed one-half dozen in box, per dozen	$10.00
No. 6342	Dessert Triple Plate, packed one-half dozen in box, per dozen	9.70

Attractively finished assortment in Solid Handle cases, open



No. 6343 Set, in lined paper case, set $21.30
6 Hollow Handle Medium Knives and 6 Flat Handle Medium Forks
No. 6344 Set, same with Dessert Knives and Forks, set $19.70

Illustration sets about one-third size

No. 6345 Set, fancy assortment, set $12.10
6 Solid Handle Medium Knives, General Putnam Pattern, and 6 Flat Handle Medium Forks, General Putnam Pattern

AMERICA'S FOREMOST PATTERN CUT GLASSWARE

THE CELEBRATED REGAL PATTERN

RICHEST **MOST EXQUISITE** **EXCLUSIVE**

In the Quality of Colors and in the Delicacy of Carving, upon which the Decorative value of Glass depends, this popular design shows distinctive beauty unsurpassed.

THE PEER OF AMERICAN PATTERNS

The Lustre suggests the Blue-White Radiance of Diamonds, accomplished by master hands and extreme care exercised at factory

IT IS TRUE ART—CRYSTALLIZED

REGAL SUGAR AND CREAM
Height of Sugar, 3½ inches; of Cream, 4½ inches
No. 4500 Per set $15 00

REGAL HANDLED MAYONNAISE BOWL
Diameter of Bowl 5¼ inches
No. 4501 Each $15.00

REGAL BOWL
8 inch
No. 4502 Each $17 50

REGAL ROLL TRAY
Length 13 inches, width 5½ inches
No. 4503 Each $15 00

REGAL BONBON
Length 7½ inches, width 5 inches
No. 4504 Each $7.50

REGAL JUG
Capacity 4 pints, height 10½ inches
No. 4505 Each $30.00

REGAL TUMBLER
Height 4 inches
No. 4506 Per doz. . $60.00

REGAL
WHISKEY TUMBLER
Height 2½ inches
No. 4507 Per doz. . $50.00

REGAL DECANTER
Capacity 1 quart
Height 11½ inches to top of stopper
No. 4508 Each $27 50

AMERICA'S FOREMOST PATTERN CUT GLASSWARE

The Celebrated Regal Pattern—Continued

REGAL PLATE
No. 4509 10 inch . $15.00

REGAL JUG
Capacity 3¼ pints height 10 inches
No. 4511 Each $25.00

Richest
Most Exquisite
Exclusive

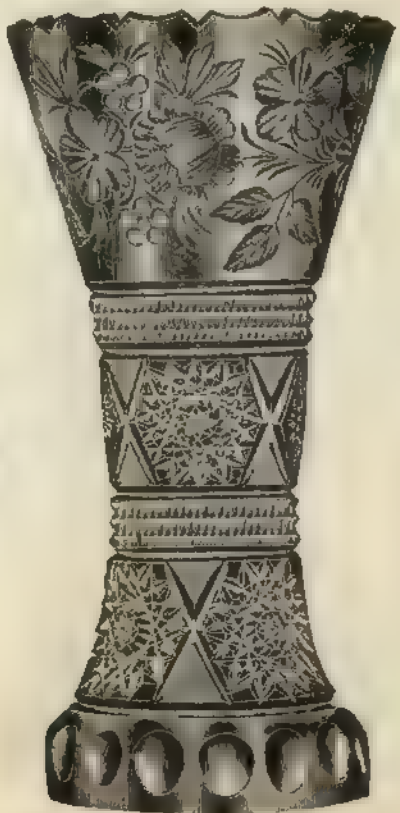
REGAL VASE—12 Inch
No. 4510 Each.....$30.00

REGAL BONBON
Length 9 inches, width 5 inches.
No. 4512 Each $8.75

REGAL VASE 20 Inch
No. 4513 Each $150.00

REGAL BASKET

No. 4514	8 inch	Each	$20.00
No. 4515	10 inch	Each	30.00
No. 4516	12 inch	Each	45.00



REGAL VASE—13 Inch
No. 4517 Each.....$37.50

AMERICA'S FOREMOST PATTERN CUT GLASSWARE

THE CELEBRATED REGAL PATTERN Continued

RICHEST MOST EXQUISITE EXCLUSIVE

In the Quality of Colors and in the Delicacy of Carving, upon which the Decorative value of Glass depends, this popular design shows distinctive beauty unsurpassed.

THE PEER OF AMERICAN PATTERNS

The Lustre suggests the Blue-White Radiance of Diamonds, accomplished by master hands and extreme care exercised at factory

IT IS TRUE ART—CRYSTALLIZED

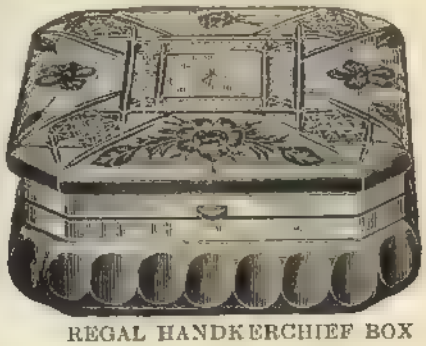
REGAL HAIR RECEIVER
4½ inch
No. 4518 Each.....$13.75

REGAL OIL
Height 9 inches to top of stopper
No. 4519 Each....$11.25

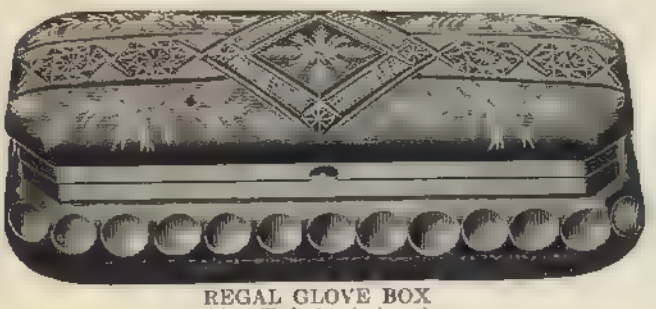
REGAL COLOGNE
No 4520 4 oz., each.$ 8 75
No. 4521 8 oz., each. 13.75

REGAL JEWEL CASE
White silk lining in interior
No. 4522 6 inch, each $15 00
No 4523 7 inch, each . 20 00
No. 4524 8 inch, each 25.00

REGAL CANDLESTICK
8¼ inch
No. 4526 Each.....$15.00



REGAL HANDKERCHIEF BOX
White silk lining in interior
6½ inches square
No. 4527 Each..... $40 00



REGAL GLOVE BOX
White silk lining in interior
Length 10½ inches; width 4½ inches.
No. 4525 Each. $40 00

REGAL [illegible] BOX
[illegible] inch
No. 4528 Each . . . $13 75

REGAL COMPORT
Height 12 inches, width across handles 10½ inches
No. 4529 Each $75 00

REGAL COMPORT
Height 8 inches, Bowl 6 inches
No 4530 Each $13.75

REGAL COMPORT
Height 5¾ inches, Bowl 8½ inches
No. 4531 Each..... $30.00

REPEATING AND SINGLE SHOTGUNS

STEVENS REPEATING SHOTGUN

Take-down, hammerless. High pressure compressed steel barrel, bored for nitro powder, visible locking block, safety firing pin, independent safety, side ejection. Plain walnut stock, pistol grip, rubber butt-plate, length 13¾ in., drop 2⅝ in. It is absolutely impossible to discharge a Stevens repeating shotgun before it is closed.

No. 520—12 gauge, 30 in. barrel. Wgt. 7¾ lbs.....Each $30.00
Specify Full or Modified Choke

STEVENS HAMMERLESS

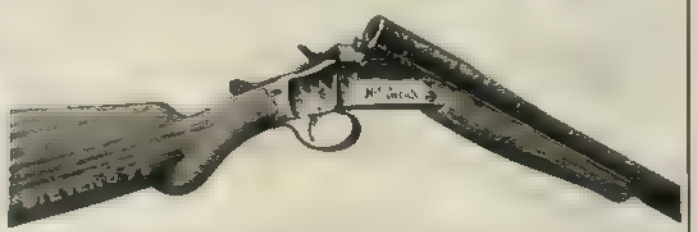
Compressed forged "Electro" steel barrel, hollow tapered, bored for nitro powder. Hammerless action, top snap, automatic ejector and safety. Full choke only. English walnut stock and fore-end neatly checkered, full pistol grip, capped.

No. 180—With automatic ejector.
12 gauge, 30 in. barrel. Weight 6½ lbs.....Each $15.00

STEVENS HAMMER

Compressed forged "Electro" steel barrel, hollow tapered, bored for nitro powder. Top snap, low rebounding hammer, automatic ejector, case-hardened frame. English walnut stock and fore-end neatly checkered, full pistol grip, capped. Full choke only.

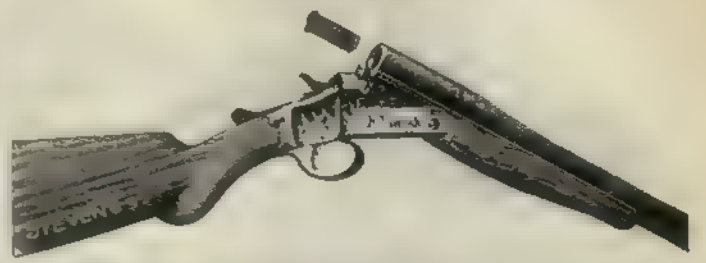
No. 115—With automatic ejector.
12 gauge, 30 in. barrel. Weight 6 lbs.....Each $9 00
16 gauge, 28 in. barrel. Weight 5½ lbs .....Each 9 00
20 gauge, 28 in. barrel. Weight 5 lbs.....Each 9 00



Compressed forged steel barrel, built extra heavy at breech and bored specially for nitro powder, blued finish. Plain walnut stock and fore-end, top snap, rebounding hammer, plain ejector. Made in full choke only.

No. 98—With plain ejector.
12 gauge, 30 or 32 in. barrel. Weight 7¼ lbs.....Each $8.00
16 gauge, 28 or 30 in. barrel. Weight 7 lbs.....Each 8.00

STEVENS HAMMER



Compressed forged steel barrel, built extra heavy at breech and bored specially for nitro powder, blued finish. Plain walnut stock and fore-end, top snap, rebounding hammer, plain ejector. Made in full choke only.

No. 97—With automatic ejector.
12 gauge, 30 or 32 in. barrel. Wgt. 7¼ lbs.....Each $8.50
16 gauge, 28 or 30 in. barrel. Wgt. 7 lbs.....Each 8.50

Compressed forged "Electro" steel barrel, hollow tapered, bored for nitro powder. Full choke. Plain walnut stock and fore-end, full pistol grip. Metal joint, top snap, plain ejector, low rebounding hammer.

No. 105—With plain ejector.
12 gauge, 28, 30 or 32 in. barrel. Wgt. 6 lbs .....Each $7 00
16 gauge, 28 or 30 in barrel. Wgt. 5½ lbs.....Each 7 00

Same description as No. 105, excepting ejector which in this gun is automatic.

No. 107—With automatic ejector.
12 gauge, 28, 30 or 32 in. barrel. Wgt. 6 lbs.....Each $7 50
16 gauge, 28 or 30 in. barrel. Wgt. 5½ lbs.....Each 7 50
20 gauge, 28 in. barrel. Wgt. 5 lbs.....Each 7 50

IVER JOHNSON SMALL BORE HAMMER

This is an ideal weapon for small game. It shoots a paper shell, whose crimped end gives the greatest effective range for a small-bore shotgun. Lug and barrel are a single forged piece, joint pin is solid in the frame, coil springs are used wherever possible. The coil mainspring is adjustable to either light or heavy pull. Compensating locking bolt to take up wear. Has automatic ejector.

Champion—410 gauge, 26 in. round barrel, full choke, chambered for 2 or 2½ in. paper shells.....Each $7 00

Each Gun in a Box

SINGLE SHOT RIFLES

STEVENS SINGLE SHOT

Round tip-up barrel, blued frame, plain lever, positive extractor, full oval stock, shotgun style butt with rubber butt-plate, bead front and open rear sights. Chambered same as No 27 Favorite. Designed especially for smokeless powder ammunition.

No. 12, "Marksman"—

.22 caliber, 20 in. round barrel. Wgt. 3¾ lbs. .... Each $6 50
.25 caliber, 20 in. round barrel. Wgt. 3¾ lbs. .... Each 6 50
.32 caliber, 20 in. round barrel Wgt 3¾ lbs .... Each 6 50

Round barrel, blued frame, lever action, oval stock, carbine butt-plate, knife-blade front and open rear sights. Specially designed for smokeless powder ammunition. Take-down. Adapted for C. B caps, .22 short, .22 long, or 22 long rifle cartridges.

No. 26, "Crackshot"—

.22 caliber, 18 in. round barrel. Wgt 3¼ lbs..... Each $4 75
.32 caliber, 18 in. round barrel Wgt 3¼ lbs..... Each 4 75

Same as above only with smooth bore for shot cartridges.

No. 26½, "Crackshot"—

.22 caliber, 18 in. round barrel. Wgt 3¼ lbs .... Each $4 75
.32 caliber, 18 in. round barrel. Wgt. 3¼ lbs.... Each 4 75

Round barrel, case-hardened frame, blued steel butt-plate, German silver knife edge front and open rear sights. Adapted for C. B caps, .22 short, .22 long or .22 long rifle rim-fire cartridges. Take-down.

No. 14½, "Little Scout"—

.22 caliber, 18 in. round barrel. Wgt. 2¾ lbs..... Each $2.50

HAMILTON

Take-down, with hammer action and automatic ejector, tapered barrel bronze with built-up steel jacket, blue-black finish, no liability of rust from pitting. Walnut stock and fore-arm nicely finished. Fitted with knife-blade front and open adjustable rear sights. Chambered for .22 short or .22 long rim-fire cartridges.

No. 027—.22 caliber, 16 in. round barrel. Wgt. 2¾ lbs..... Each $2.50

Take-down, with hammer action and automatic ejector, tapered bronze barrel, with built-up steel jacket, blue-black finish. Flat stock and fore-arm, fitted with knife-blade front and adjustable open rear sights. Chambered for .22 short or 22 long rim-fire cartridges

No. 27H—.22 caliber, 16 in. barrel. Wgt. 2½ lbs..... Each $2 25
Each Gun in a Box

AIR RIFLES

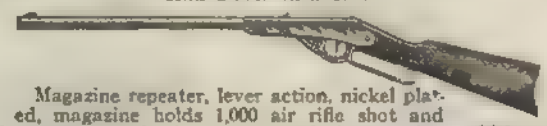
DAISY

Operates by pulling the slide toward the stock. Fires rapidly from the shoulder, the magazine having a forced feed. A strong and accurate shooter for men and boys. Metal parts in non-rusting gun blue; Stock, genuine black walnut, hand polished. Adjustable sights front and rear. Length 38 inches; weight, 3¼ lbs:

No. 25—Take-down Repeater..... Per dozen $60 00
Half Dozen in a Case

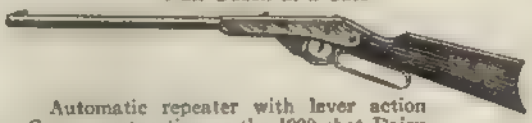
All metal parts polished and blued, stock of carefully selected walnut, hand polished. An extra strong and accurate shooter, lever action. Each rifle in a handsome box with hinge cover for display in show case or window. Otherwise same as No 3.

No. B3 1000 Shot..... Per dozen $45.00
Half Dozen in a Case



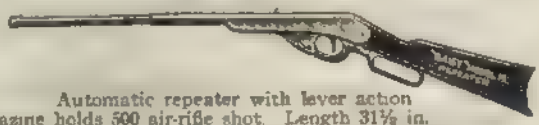
Magazine repeater, lever action, nickel plated, magazine holds 1,000 air rifle shot and loads by operating the lever, patented shot retainer which enables user to shoot downward without losing the shot. Turned black walnut stock, highly polished, fitted with rubber butt-plate.

No. 3—1000 Shot..... Per dozen $37.50
Half Dozen in a Case



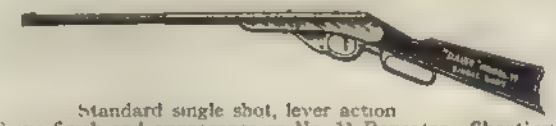
Automatic repeater with lever action
Same construction as the 1000 shot Daisy, but the barrel is three inches shorter and the magazine holds 500 air-rifle shot. Designed for boys wanting a high-grade repeater, shorter than the No 3 Daisy

No. 30—500 Shot..... Per dozen $30.00
Half Dozen in a Case



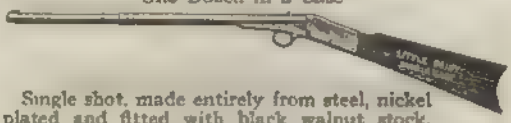
Automatic repeater with lever action
Magazine holds 500 air-rifle shot. Length 31⅛ in. Walnut stock, nickel plated single piece steel barrel

No. 11—500 Shot..... Per dozen $23 00
One Dozen in a Case



Standard single shot, lever action
Same finish and appearance as No. 11 Repeater. Shooting barrel is removable and allows the use of either air rifle shot or No 17 darts

No. 12—Single Shot..... Per dozen $19.00
One Dozen in a Case



Single shot, made entirely from steel, nickel plated and fitted with black walnut stock. Designed to meet the demand for an air-rifle smaller and lighter than the No. 2 Daisy

No. 20—Single Shot..... Per dozen $13.50
One Dozen in a Case

AIR-RIFLE DARTS

Fine steel points. Red yellow and blue

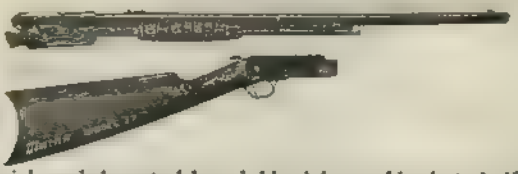
No. 17—Assorted Colors..... Per gross $3.00
One Dozen in an Envelope

CAUTION

In ordering shot for air-rifles, always specify "Air-Rifle" shot, not Standard B. B. Air-Rifle shot is extra screened and uniform in size

SINGLE SHOT AND REPEATING RIFLES

MARLIN REPEATING



Special smokeless steel barrel, blued frame, blued steel rifle butt-plate, black walnut stock and fore-end. Rocky Mountain (adjustable) rear sight and ivory bead front sight, take-down "pump" action, seven shots.

	Each
Model 27—.25-20 caliber, 24 in. octagon barrel. Wgt. 5¾ lbs.	$18 60
.32-20 caliber, 24 in. octagon barrel. Wgt. 5¾ lbs.	18 60

23 in. round barrel, trombone action, take-down. Magazine capacity fifteen .22 short, twelve .22 long, or eleven .22 long rifle cartridges. Black walnut stock and fore-end, blued frame and blued rifle butt-plate. Solid top, side ejection, closed-in breech.

Model 29—.22 caliber, 23 in. round barrel. Wgt. 4¼ lbs. Each $11.80

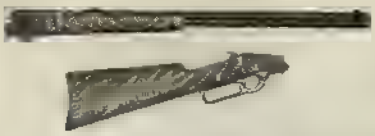
The magazine capacity of this rifle is larger than on any other repeating rifle of this caliber, at one loading it will hold twenty-five .23 short, twenty .22 long, or eighteen .22 long rifle cartridges. Trombone action, solid top, side ejector and take-down. Plain American walnut stock and fore-end, steel rifle butt-plate, case-hardened frame

Model 20—.22 caliber, 24 in. octagon barrel. Wgt. 5¼ lbs. Each $14.00

A very desirable target rifle, solid frame, full length magazine. Has same capacity as Model 20, lever action, blued receiver, Rocky Mountain front and rear sights, walnut stock and fore-arm, solid top, side ejector.

Model 1892—

.22 caliber, 24 in. octagon barrel. Wgt. 6 lbs.	Each $16.60
.22 caliber, 24 in. round barrel. Wgt. 6¼ lbs.	Each 15.30
.32 caliber, 24 in. octagon barrel. Wgt. 6 lbs.	Each 16.60
.32 caliber, 24 in. round barrel. Wgt. 6¼ lbs.	Each 15.30



This model is similar in construction to Model 1892, but it is made in the take-down style, has special smokeless steel frame and tool steel working parts. Rocky Mountain rear and ivory bead front sights. Walnut stock and fore-arm, solid top, side ejector, lever action, full weight magazine, chambered for 22 short, .22 long and .22 long rifle cartridges. Same capacity as Model 20

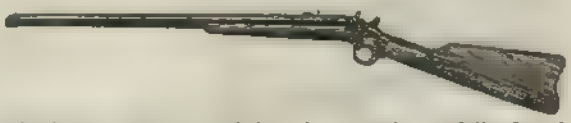
Model 1897—

.22 caliber, 24 in. octagon barrel. Wgt. 5¾ lbs.	Each $18 80
.22 caliber, 24 in. round barrel. Wgt. 5¾ lbs.	Each 17.20

REMINGTON SINGLE SHOT

This rifle is designed to meet the demand for a light weight and reliable take-down rifle at a moderate price. Remington steel, tapered barrel, accurately bored and rifled, case-hardened frame, walnut stock and fore-arm, steel rifle butt-plate, new design open front, rear and tang peep-sights. Adapted for all lengths of .22 cartridges.

No. 6—.22 caliber, 20 in. round barrel. Wgt. 3¾ lbs	Each $6.50
.32 caliber, 20 in. round barrel. Wgt. 3¾ lbs.	Each 6.50



Take-down, octagon steel barrel, tapered, carefully bored and rifled, walnut stock and fore-arm, forged case-hardened frame, steel rifle butt-plate, automatic shell ejector. This rifle is popular for its simple action, fine workmanship and material, and its extreme accuracy. Chambered for both .22 short and .22 long cartridges.

No. 4—.22 caliber, 22½ in. octagon barrel. Wgt. 4¼ lbs.	Each $9.00
.32 caliber, 22½ in. octagon barrel. Wgt. 4¼ lbs.	Each 9.00

STEVENS REPEATING

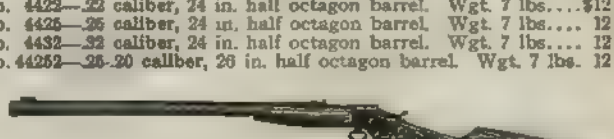
Visible loading, varnished stock and slide handle, rubber butt-plate, case-hardened frame, chambered for fifteen .22 short, twelve .22 long, and eleven .22 long rifle cartridges. Fitted with Rocky Mountain front and sporting rear sights.

	Each
No. 70 L. R.—.22 caliber, 20 in. round barrel. Wgt. 4½ lbs.	$12.00

STEVENS SINGLE SHOT

Take-down, plain walnut stock and fore-end, case-hardened frame, lever action, automatic ejector. Fitted with Rocky Mountain front and sporting rear sights. A very desirable gun for target shooting.

Ideal	Each
No. 4422—.22 caliber, 24 in. half octagon barrel. Wgt. 7 lbs.	$12 00
No. 4425—.25 caliber, 24 in. half octagon barrel. Wgt. 7 lbs.	12 00
No. 4432—.32 caliber, 24 in. half octagon barrel. Wgt. 7 lbs.	12 00
No. 44252—.25-.20 caliber, 26 in. half octagon barrel. Wgt. 7 lbs.	12 00



Full octagon barrel, blue. frame, lever action, automatic ejector, (in .22 caliber only), walnut stock and fore-end, rubber butt-plate. Takes .22 short, .22 long, .22 long rifle, .25 Stevens or .32 rim fire cartridges. Rocky Mountain front and sporting rear sights, take-down.

No. 27, "Favorite"—

.22 caliber, 24 in. octagon barrel. Wgt. 4½ lbs.	Each $8 00
.25 caliber, 24 in. octagon barrel. Wgt. 4½ lbs.	Each 8 00
.32 caliber, 24 in. octagon barrel. Wgt. 4½ lbs.	Each 8.00

Same description as Model No. 27 except it has round barrel instead of octagon

No. 17, "Favorite"—

.22 caliber, 24 in. round barrel. Wgt. 4½ lbs.	Each $7.50
.25 caliber, 24 in. round barrel. Wgt. 4½ lbs.	Each 7 50
.32 caliber, 24 in. round barrel. Wgt. 4½ lbs.	Each 7.50

Each Gun in a Box

SILVER PLATED ON HIGHEST GRADE NICKEL SILVER

★ROGERS & BRO. A-1

(TRADE MARK)

EVERY PIECE ABSOLUTELY GUARANTEED

ALL silverware bearing the celebrated trade mark ★ROGERS & BRO. A-1 is heavily plated with pure silver on highest grade nickel silver base. The Tea, Table, Dessert and Soup Spoons, Medium and Dessert Forks are SECTIONAL PLATED and stamped "XII," having an EXTRA THICKNESS OF SILVER on parts most exposed to wear, viz.: backs of handles, tips and backs of bowls and tines, which add greatly to their durability.

THE GARLAND PATTERN

GRAY FINISH

Prices per Dozen

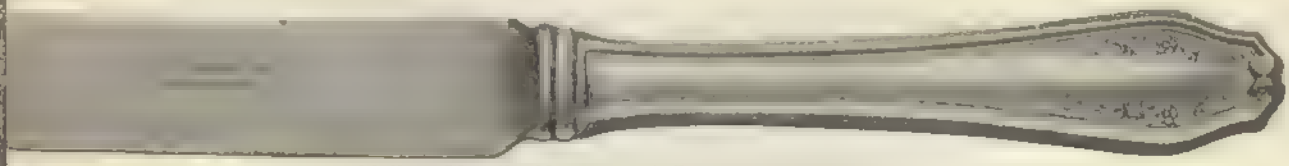
Illustrations Actual Size

Spoons

		A-1 XII Sectional Plate		Triple Sectional Plate
No. 6140	Tea, one dozen in unlined box	$ 7.15	No. 6146	$ 9.75
No. 6141	Dessert, one dozen in unlined box	12.75	No. 6147	16.45
No. 6142	Table, one dozen in unlined box	14.30	No. 6148	19.50
No. 6143	Five O'clock Tea, half dozen in lined box	7.90	No. 6149	10.50
No. 6144	Soup (Round Bowl), half dozen in lined box	15.75	No. 6150	21.00
No. 6145	Soup (Round Bowl), one dozen in unlined box	14.30	No. 6151	19.50

Flat Handle Forks

		A-1 XII Sectional Plate		Triple Sectional Plate
No. 6152	Medium, one dozen in unlined box	$14.30	No. 6154	$19.50
No. 6153	Dessert, one dozen in unlined box	12.75	No. 6155	16.45



Hollow Handle Knives and Forks, Heavily Silver Plated

Nickel Silver, Silver Soldered. Fine Tempered Forged Steel Blades.

No. 6156	Medium, half dozen in lined box or flannel bag	Per dozen $28.30
No. 6157	Dessert, half dozen in lined box or flannel bag	Per dozen 26.65
No. 6158	Breakfast Knives, half dozen in lined box or flannel bag	Per dozen 27.65

Solid Handle Steel Knives and Nickel Forks, Silver Plated

No. 6159	No. 12, Medium	Per dozen $10.00
No. 6160	No. 12 Dessert	Per dozen 9.70
No. 6161	No. 12, Breakfast Knives, Scimeter and Swaged Blades	Per dozen 10.10

Packed one-half dozen in box, or set of six each knives and forks in box.

SILVER PLATED ON HIGHEST GRADE NICKEL SILVER

★ROGERS & BRO. A-1

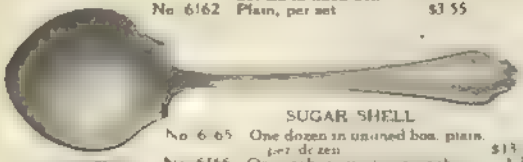
(TRADE-MARK)

EVERY PIECE ABSOLUTELY GUARANTEED

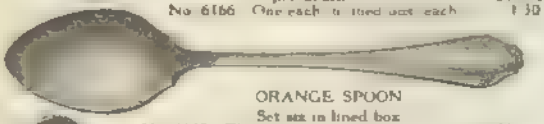
THE GARLAND PATTERN

GRAY FINISH

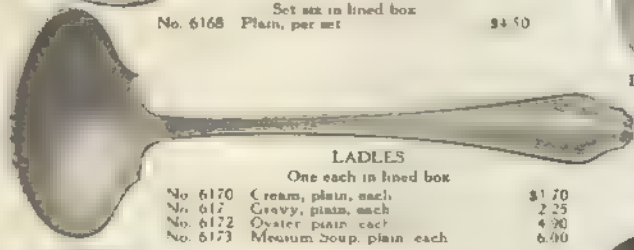
COFFEE SPOON
Set six in lined box
No. 6162 Plain, per set $3 55



SUGAR SHELL
No. 6165 One dozen in unlined box, plain, per dozen $13 50
No. 6166 One each in lined box, each 1 30

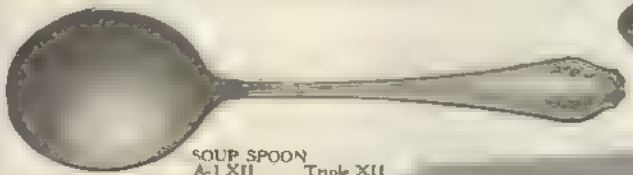


ORANGE SPOON
Set six in lined box
No. 6168 Plain, per set $4 50



LADLES
One each in lined box

No. 6170	Cream, plain, each	$1 70
No. 617	Gravy, plain, each	2 25
No. 6172	Oyster plain each	4 90
No. 6173	Medium Soup, plain each	6 90



SOUP SPOON

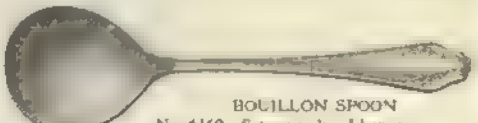
A-1 XII		Triple XII	
No. 6177	1 doz., unlined box, ea	$14 25	No. 6179 $19 50
No. 6178	½ doz., Lined box set. .	7.90	No. 6180. . 10.50

BUTTER KNIFE, BENT HANDLE

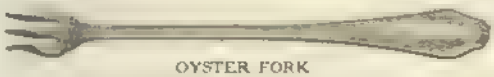
No. 6163	One dozen in unlined box, per dozen	$15 75
No. 6164	One each in lined box, each	1 50

SUGAR TONGS
No. 6167 One each in lined box, each $2 25

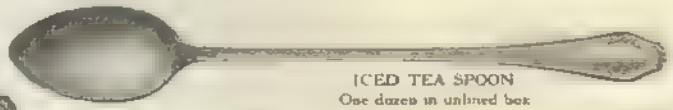
BABY SPOON
One each in lined box, No. 6174
Each, $0 95
BABY SET
Spoon and Food Pusher
No. 6175
Per set, $1 90



BOUILLON SPOON
No. 6169 Set six in lined box, per set $6 75



OYSTER FORK
No. 6176 Set six in lined box, per set . $4 75

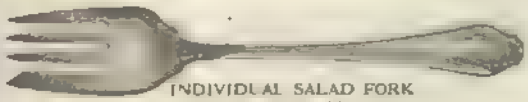


ICED TEA SPOON
One dozen in unlined box
No. 6181 Length 7⅛ inch, per doz $9 75

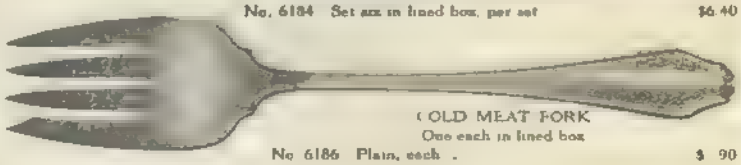
PIE SERVER, HOLLOW HANDLE
No. 6182 Each $4 35

BERRY SPOON
One each in lined box
No. 6183 Plain, each. $3 00

BUTTER SPREADER
No. 6184 Set six in lined box, per set $6 40

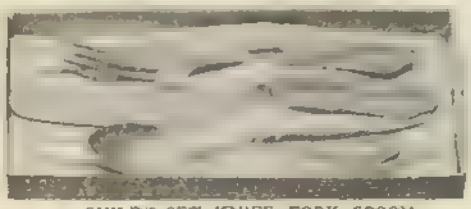


INDIVIDUAL SALAD FORK
Set six in lined box
No. 6185 Plain, per set. $7 15



COLD MEAT FORK
One each in lined box
No. 6186 Plain, each . $ 90

Illustrations One-Half Size



CHILD'S SET, KNIFE, FORK, SPOON
No. 6187 In lined box per set. $3.00

BUTTER KNIFE AND SUGAR SHELL
In lined box
No. 6188 Plain, per set. $2.75

Illustrations One-Third Size

SILVER PLATED ON HIGHEST GRADE NICKEL SILVER

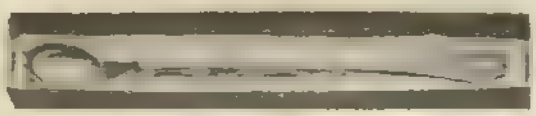
★ROGERS & BRO. A-1

(TRADE MARK)

EVERY PIECE ABSOLUTELY GUARANTEED

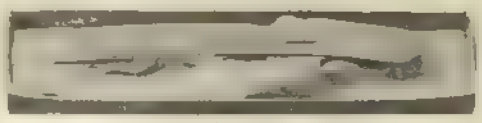
THE GARLAND PATTERN

GRAY FINISH



OLIVE SPOON

No. 6189 One in lined box, each $1.70



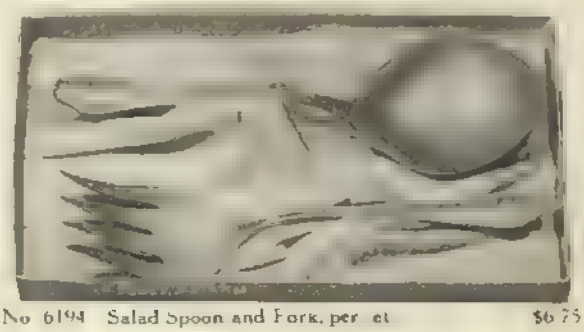
PICKLE FORK, SHORT

No. 6190 One in lined box, each $ 1 30
No. 6191 Twelve in unlined box, dozen 13 50

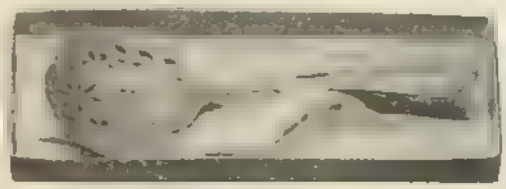
JELLY KNIFE

One in lined box

No. 6192 Plain, each $2 25



No. 6194 Salad Spoon and Fork, per set $6 75



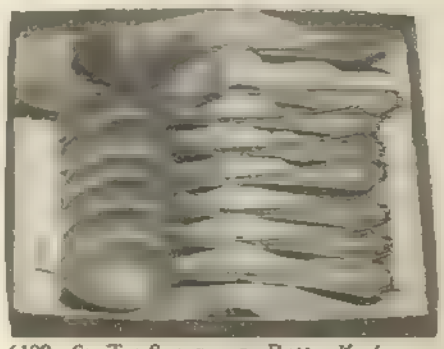
CUCUMBER OR TOMATO SERVER

One each in lined box

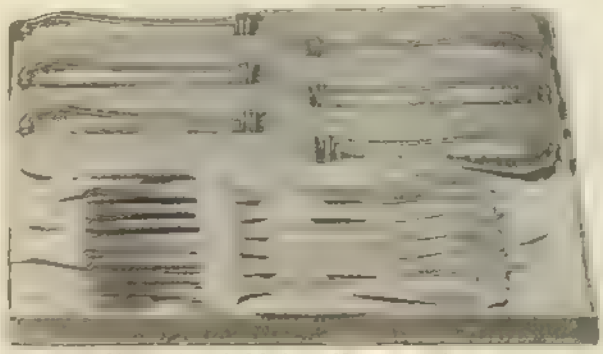
No. 6193 Plain, each $3 00

No. 6195 Carving Set, three pieces, per set $ 9 15
No. 6196 Game Set, two pieces, per set 13 35
No. 6197 Bird Set, two pieces, per set 8 65
No. 6198 Bird Set, three pieces, per set 12 65

Nickel Silver, Silver Soldered, Hollow Handles, Steel Blades

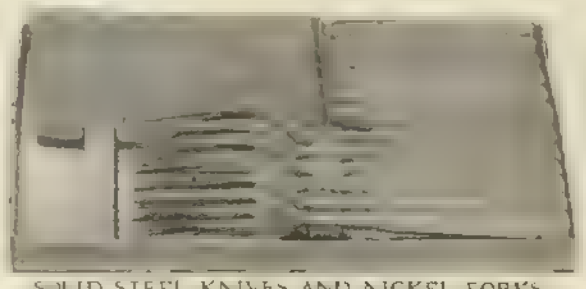


No. 6199 Six Tea Spoons, one Butter Knife, one Sugar Shell, per set $6 75



No. 6200 Six Hollow handle Medium Knives } in lined paper { $21 30
Six A 1 XII Medium Forks } case per set }

No. 6201 Same in Dessert size..... " " " 19.70



SOLID STEEL KNIVES AND NICKEL FORKS, SILVER PLATED

No. 6202 Set, six each, Medium Knives and Forks, per set $10 00
No. 6203 Set, six each, Dessert Knives and Forks, per set 9 70

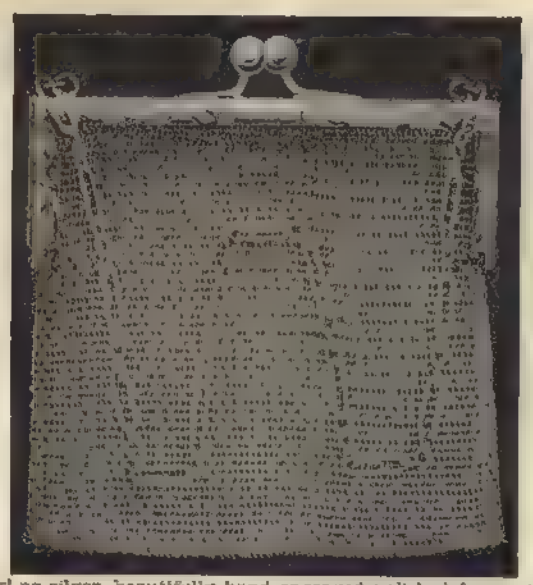
Put up one-half dozen in box, or set of six each knives and forks in box

Illustrations One-Third Size

Fine Sterling Silver and Highest Grade Silver Plated Mesh Bags

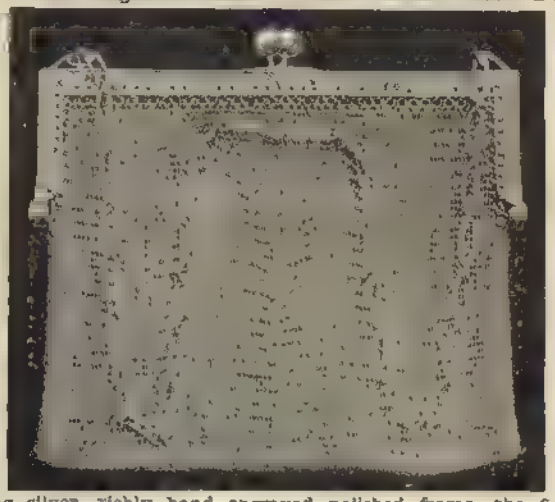
Sterling Silver are Guaranteed .925 Fine. Illustrations are reduced size. Artistically made, very fine mesh, every link soldered, without seams, and very rich and exquisite in appearance.

Prices each



Sterling silver, beautifully hand engraved polished frame, the finest mesh obtainable; seamless soldered links and chain.

No. 3257	3¾-inch frame, polished silver ball clasps	$44 00
No. 3258	4½-inch frame, polished silver ball clasps	50 75
No. 3259	5½-inch frame sapphire stone set clasps	65 00
No. 3260	6¼-inch frame, polished silver ball clasps	82 50



Sterling silver, richly hand engraved polished frame, the finest mesh obtainable, seamless soldered links and chain

No. 3261	4¾ inch frame	$57 25
No. 3262	5½-inch frame	73 50
No. 3263	6¼-inch frame	98.00

Sterling silver, magnificently engine turned and engraved polished frame, the finest mesh obtainable, seamless soldered links and chain, sapphire stone set clasps.

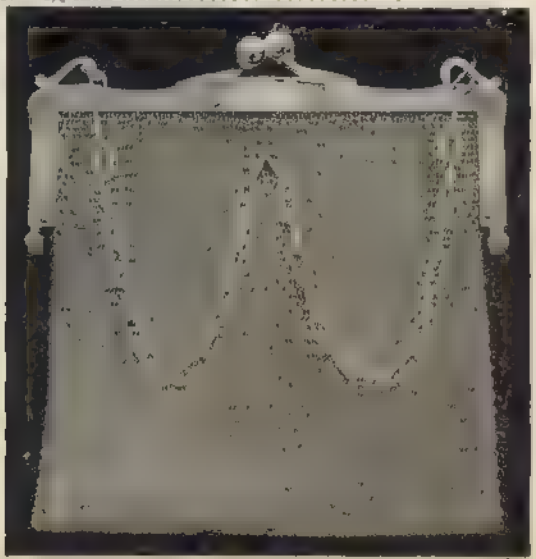
No. 3264	4¾-inch frame	$58 50
No. 3265	5½-inch frame	72 75
No. 3266	6¼-inch frame	92 00

The highest grade Silver Plated beautifully hand chased French gray frame, very fine mesh, seamless soldered links and chain, sapphire stone set clasps.

No. 3267	4¾-inch frame	$28 25
No. 3268	5½-inch frame	36 50
No. 3269	6¼ inch frame	45 25

High grade Silver Plated, richly chased on both sides of frame, polished, fine mesh seamless soldered links and chain

No. 3270	4¾-inch frame	$20 50
No. 3271	5½-inch frame	23 75
No. 3272	6¼ inch frame	28 25

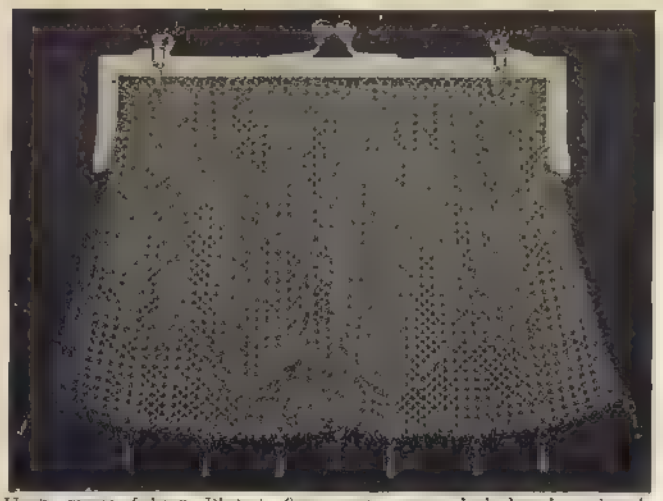


High grade Silver Plated, engine turned and chased on both sides of frame, fine mesh, seamless soldered links and chain.

No. 3273	4¾-inch frame	$20 50
No. 3274	5½-inch frame	23 75
No. 3275	6¼ inch frame	28 25

LADIES' FINE SILVER PLATED AND GOLD FILLED MESH BAGS

Heavily Silver Plated, Latest and Popular Styles. Illustrations are Reduced Size. Prices Each



High grade Silver Plated, fine mesh, every link hand soldered, satin finish frame.

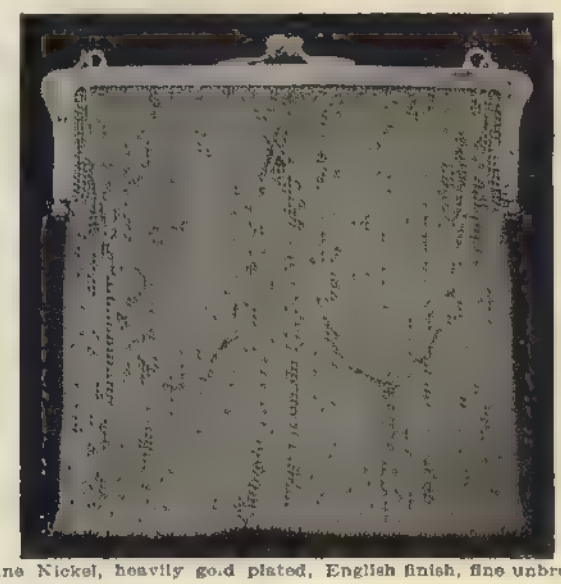
No. 3276	6-inch frame	$31.00
No. 3277	5-inch frame	26 50
No. 3278	4½-inch frame	22 00
No. 3279	3 inch frame	15 50

High grade Silver Plated, fine mesh, every link hand soldered, French gray, artistically pierced and carved frame.

No. 3280	5¼-inch frame	$18.75
No. 3281	4½-inch frame	16.50

Fine Silver Plated, unbreakable mesh (guaranteed) chased polished frame, soldered links and chain.

No. 3282	7-inch frame	$20.50
No. 3283	6-inch frame	16.00
No. 3284	5-inch frame	12.75



Fine Nickel, heavily gold plated, English finish, fine unbreakable mesh, etched frame on both sides.

No. 3285	6-inch frame	$28.75

High grade Silver Plated, fine mesh, every link hand soldered, French gray, beautifully carved frame

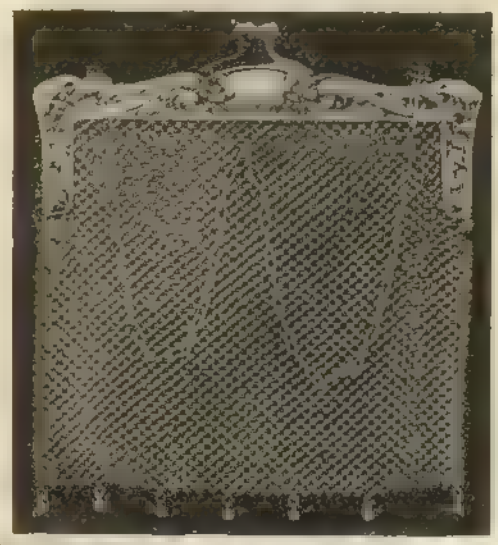
No. 3286	6 inch frame	$18.75
No. 3287	5-inch frame	14 50
No. 3288	4-inch frame	12.25

Fine Silver Plated, guaranteed unbreakable mesh, gunmetal trimmings, French gray etched frame.

No. 3289	6-inch frame	$10.50
No. 3290	4½ inch frame	8.25

LADIES' FINE SILVER PLATED MESH BAGS

Illustrations are reduced size. Heavily silver plated. Latest and popular styles. Prices each



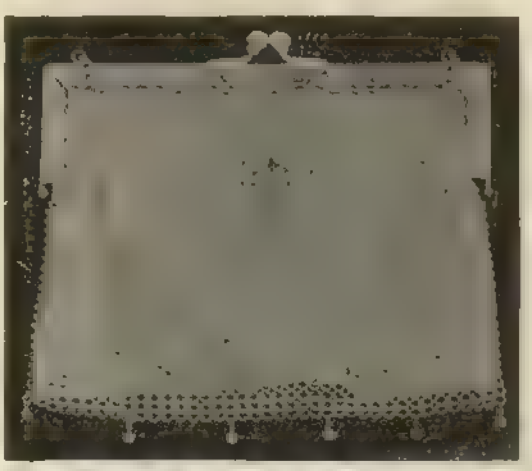
[illegible] guaranteed unbreakable mesh, French gray embossed frame

[illegible] $8.25

When you compare prices, consider our supreme quality.

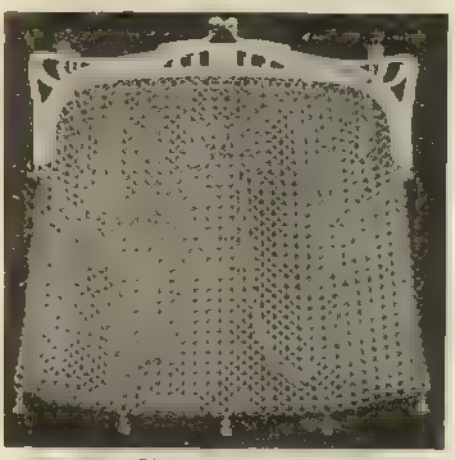
The most exacting attention given to all orders, regardless of amount involved.

We base all prices upon small profits thereby underselling our competitors.



[illegible] Silver Plated, guaranteed unbreakable mesh, French gray embossed frame, white kid lined with coin purse

No. 3299 7 [illegible] inch frame $10.50



Fine Silver Plated, guaranteed unbreakable mesh, French gray, hand-pierced and [illegible] frame

No. 3294 5⅜ inch frame $7.25

Fine Silver Plated, guaranteed unbreakable mesh, French gray etched frame

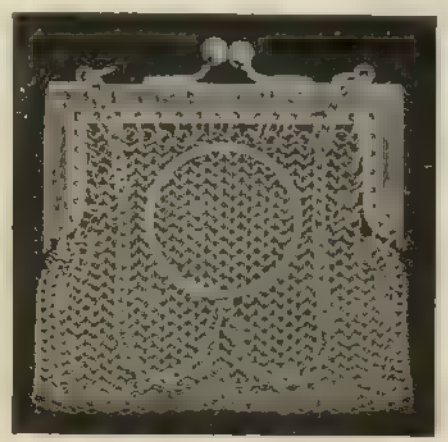
No. 3294 $11.00

Fine Silver Plated, guaranteed unbreakable mesh, French gray, etched frame, white kid lined with coin purse

No. 3295 [illegible] inch frame $9.50

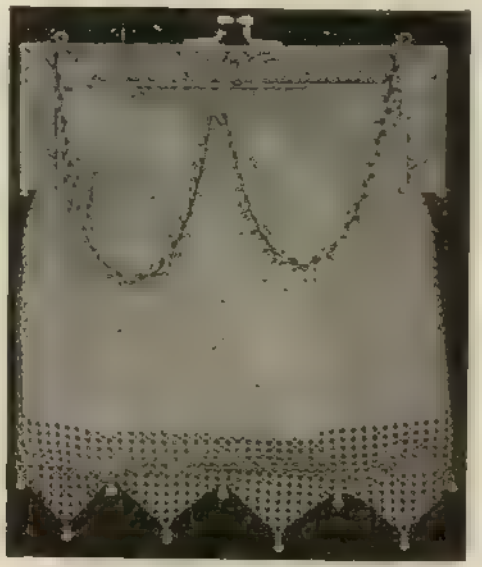
Fine Silver Plated, guaranteed unbreakable mesh, French gray embossed frame, white kid lined with coin purse

No. 3299 [illegible] inch frame $10.50



Fine Silver Plated, guaranteed unbreakable mesh, French gray etched frame

No. 3297 2[illegible] inch frame $4.25



Fine Silver Plated, guaranteed unbreakable mesh, French gray, etched frame, white kid lined with coin purse

No. 3298 7⅛ inch frame..... $11.75

ELECTRIC SAD IRONS

"UNIVERSAL" TOURISTS

Indispensible for Travelers for Emergency Ironing. Can be assembled in small, compact form and is furnished with a Velvet Traveling Bag and Packed in an attractive box.

When the Iron is inverted in the Stand it is unexcelled for Ironing out Ribbons, Laces, Velvets, etc. It will also heat a Curling Iron and can be used as a small Stove for Heating Water

Solid Cast Iron Core, Polished; Nickel Plated and Polished Stamped Steel Hood; Detachable Stamped Steel Handle with Ebony Finish Hardwood Grip and Knob; Complete with Stamped Steel Stand; 6 foot Mercerized Silk finish Flexible Cord; Indestructible Push Plug, Separate Attachment Plug and Steel Wire Guard.

	Each
No. E8021—Weight of Iron 3 lbs. Size of Face 5½x2¾ inches; Height 6 inches, Weight complete 8 lbs.....	$7.10 5.00

One in a Box

DOVER

The Wire in the Dover Heating Element is evenly distributed over the Bottom of the Element: The Electric Current follows the Wire, Heating it, resulting in an evenly Heated Ironing surface; This Wire is imbedded in a Non-Conducting Composition, which is as hard as Iron, and which carries all the Heat to the Bottom of the Iron.

Solid Cast Iron Core, Base Blued; All other metal parts Nickeled and Polished; Handle Enameled Black with Rubberoid Finish; Three Section Electric Welded Steel Stand; Six foot Cord; Detachable Plug at Iron; Pull apart attachment Plug at Socket End; Extra Strong Contacts and Posts

	Each
No. 6—Weight of Iron and Stand complete 6 lbs; Size of Face 5½x2¾ inches; Height 6 inches.	$6 30

One in a Box

FANSTEEL

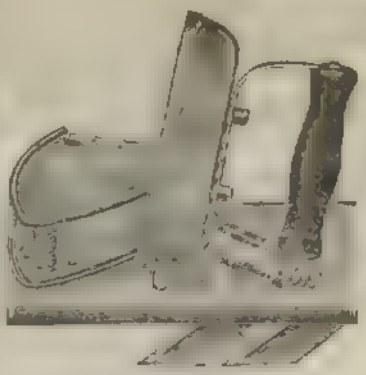
Guaranteed for Ten Years

The New Cement-like Secret Insulating Substance used in the "Fan steel" is Simply Indestructible. This Practically Eliminates the Necessity of Repairing, in as much as the Element is Part of the Base Itself and gets Better the More it is Used, Getting Harder and Whiter. Heavy Asbestos Sheet Complete by the Heating Element Confines the Heat in Bottom Plate just Where Needed, Insuring Comparatively Cool Top. Nicely Rounded Point Gives the Iron a Very Attractive Appearance; Upper Half of Iron Nickel Plated and Highly Polished. Two Asbestos Washers Keep Handle Comparatively Cool.

	Each
No. F—Bottom Plate Made of Gray Iron Casting with Blue Steel Finish; Smooth Gray Iron Core Furnishes the Desired Weight; Black Enameled Hardwood Handle; Complete with Stamped Steel Stand and Detachable Plug with 6 Foot Electric Cord and Wire Spring; Weight Complete Packed in a Box 7 lbs.....	$6 30

One in a Box

ELECTRIC SAD IRONS



UNIVERSAL

Nickel Plated Base and Hood. Ebonized Handles. Equipped with six foot cord.

With Tip up Stand.

	Each
No. E002—Weight 6 lbs..	$7 00 5.00

One in a Carton

UNIVERSAL

Nickel plated base and hood; Ebonized Handle; Detachable plug; Equipped with six foot cord; Reversible heat proof spring stand.

	Each
No. E005—Weight 6 lbs. ..	$7.00 5.00

One in a Carton

UNIVERSAL

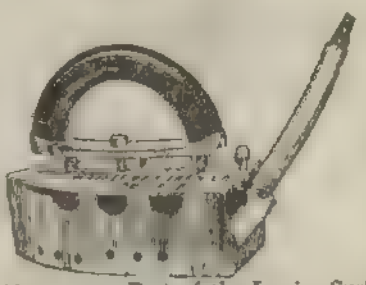
Nickel plated base and hood; Ebonized Handle; Detachable Plug; Equipped with six foot cord; Reversible heat proof spring stand

SNAP SWITCH PLUG

	Each
No. E0081—Weight 6 lbs.....	$9.10 6.50

One in a Carton

GAS IRONS



WRIGHT

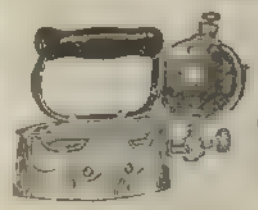
FOR ARTIFICIAL GAS

These Irons combine all of the [illegible] which make a Perfect Sad Iron; Saves time and [illegible] Ironing Comfort in [illegible] Heated Iron; Perfect in Operation, Gas Saver and One Cent for three Hours Ironing; Will Iron all Kinds of Goods; Better than three Ordinary Irons; Will Positively Heat every Part of the Ironing Surface, Easily Regulated; The Regulation of the Flow of Gas at the Supply Pipe enables one to vary Degree of Heat, for Light or Heavy Materials; Absolutely Odorless; Handle always Cool Because of Perfect Ventilation and Inner Iron Shield.

	Each
No. WG—Made of the Best Grade Cast Iron, Nickel Plated and Polished; [illegible] Base 6 Inches; Width 3½ Inches; Height 2½ Inches; Black Enameled Hardwood Handle; 6 Foot Gas Hose and Malleable Iron Stand. Complete Directions with each Iron; Weight Each 7 lbs.....	$4 50
No. NG—For Natural Gas, Otherwise Same as No. WG.....	4.50

One in a Box

GASOLINE IRONS



COMFORT

This Iron has Features not found in other Makes; Valve so Constructed that Orifice Cannot become Enlarged. Has a Sub Flame Chamber, which keep Generator Hot when Iron is Turned Low. Capacity Tank ¾ Pint. Equipment Includes Pump and Asbestos Torch. All Parts Accessible and Easily Interchangeable.

	Each
No. C6—Weight 6 lbs.....	$5.70

One in a Box

SAD IRONS

A Set Consists of Three Double Pointed Irons; One Detachable Handle and Cast Iron Stand; the Irons have Convexed Ground Surface and Tinned Tops; One 4 lb. Polishing Iron, One 5½ lb. Iron for General Work and One 5⅝ lb. Iron for Heavy Work.

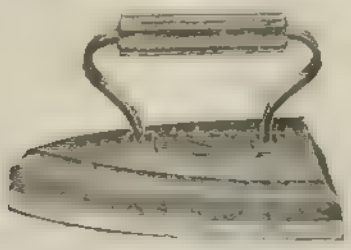
MRS. POTTS PATTERN

With Detachable Handle, Aluminum Bronzed Iron Spreader Bar.

	Per Set
No. 50—Nickel Plated Irons	$2 30
No. 55—Polished Irons	2.14

Six Sets in a Case; Weight per Case 95 lbs.

Note—No. 50 and 55 Sad Irons; Case Lots are kept in Warehouse; Broken Lots are kept in Basement.



TAILORS PRESSING

Cast Iron Base; Wrought Iron Handle; Polished Face and Edges; Japanned Top.

Nos.	12P	14P	16P	18P	20P
Weight, Lbs.	12	14	16	18	20
Per Pound, All Sizes					$0 16

Loose

TAILORS GEESE

Cast Iron Base; Twisted Wrought Iron Handle; Extra Planed, Highly Polished Surface.

Nos.	14	16	18	20	22	24
Weight, Lbs.	14	16	18	20	22	24
Per Pound, All Sizes						$0.16

Loose

SAD IRONS

COMMON
No. 140

Cast Iron Base and Handle; Wrought Iron Shank; Natural Finish; Polished Face and Edges.

Weights, Lbs.	5	6	7	8	9
Per 100 Lbs., All Sizes					$12 50

Case Contains About 100 lbs.; also Loose

Assorted Weights, Lbs	5 to 7	6 to 8
Per lb.	$0.13	.13

Case Contains About 100 lbs.

SLEEVE IRONS
OBER

Cast Iron Base and Handle; Wrought Iron Shank.

Per Dozen

No. 831—3 lbs.; Length 6¾ inches; Nickel Plated and Polished Face, Edges and Nose; Aluminum Finished Top and Handle... $7.50

Three Dozen in a Case

FAMILY SETS

Each Set Includes three Cores, One Hood and one Stand.

Per Set

No. 60D—With two 6¼ lb. and one 6 lb. Double Pointed Oval Cores; Weight per Dozen Sets 180 lbs. $2 30

One Set in a Box; Half Dozen Sets in a Case

KEEP YOUR STOCK COMPLETE BY SENDING US AN ORDER EVERY TIME YOU HAVE SUFFICIENT FOR A SHIPMENT.

SAD IRONS

HOWELL

Each Set Includes three double pointed cores one handle, one stand.

Per Set

No 60—With Three 3¼ Pound Double Pointed Oval Cores; Weight per Dozen Sets 135 lbs. $2 30

One Set in a Box

ASBESTOS SAD IRONS

FAMILY SETS

Each Set Includes Three Cores, One Hood and One Stand.

Per Set

No. 70A—With Two 6¼ lb. and One 6 lb. Double Pointed Oval Cores; Weight per Dozen Sets 220 lbs. $3.80

One Set in a Box; Half Dozen Sets in a Case

TOURIST IRONS

Per Dozen

No. 10A [illegible] Hood; [illegible] Weight per Dozen 18½ lbs. $5 20

[illegible] a Carton; One Dozen [illegible]

EXTRAS FOR ASBESTOS SAD IRONS

HOODS

Polished Nickel Plated Cast Iron, Asbestos Lined; with Steel Bow; Bolted Black Enameled Wood Handle.

Per Dozen

No. 71A—Double Pointed; for Nos. 72A, 102A and 82A Cores, or Sets Nos. 70A, 100A and 80A; Wt. per Doz. 15 lbs. $16.00

†CORES ONLY

Weights Given Include Weight of No. 71A Hood

Per Dozen

† No. 72A —6 or 7 lbs.; Double Pointed $8 00

SAD IRON STANDS

Per Dozen

† No. 73A—Asbestos Cover, Planished Steel; 5½ Inches Square

Weight per Dozen 3½ lbs. $1.90

Loose

SAD IRON HANDLES

★DIAMOND

Fits Norlegh Diamond and all Potts Pattern Sad Irons.

Per Dozen

No. D [illegible] Tinned Iron Stretcher; Flat Steel Lock Spring, Wood Knob; Weight per Dozen 6¾ lbs. $2 40

One Dozen in a Box

NEW PERFECTION

All Steel Japanned; Fits all Potts Pattern Sad Irons

Per Dozen

No. HH38—Length 5¾ inches; Height 3¼ inches, Black Japanned Hollow Steel Curved Grip; Flat Steel Lock Spring; Wood Knob; Weight per Dozen 5 lbs. $1 80

One in a Carton

POTTS PATTERN

6 in. Long; 3¼ in. High. Unbreakable Pressed Steel Stretcher; Hardwood Handle.

Per Dozen

No. PT—Tinned Stretcher. $1.50

No. PJ—Japanned Stretcher. 1 40

Weight per Dozen 3¾ lbs.

Half Dozen in a Package

UNIVERSAL

Takes a firm Grip on the Sad Iron and fits Tight on any and all Makes of Mrs. Potts Sad Iron. Per Dozen

No. U—Length 6 inches; Height 3½ inches; Enameled Hardwood Handle, with the correct fit to the Hand; Base made of Strongest Steel; Coiled Wire Lock Spring; the Lever for attaching and detaching the Handle is placed so as to be easily operated; Wt. per Doz. 4½ lbs. $2 60

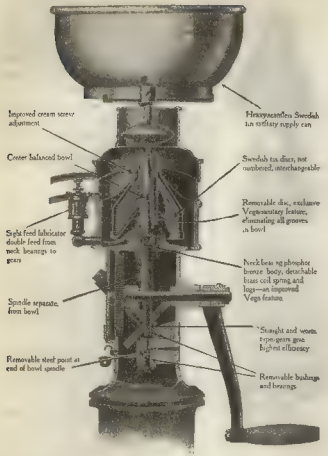
Half Dozen in a Package

Items marked † Not Carried in Stock; Can only be furnished by shipping direct from Factory, Canal Dover, Ohio.

CREAM SEPARATORS.

For prices see page 1909.

VEGA.



The Vega separators are not an experiment, but the result of thirty years' growth and experience. The manufacturers have constantly aimed to build the nearest perfect separator possible, with the smallest number of parts and of the simplest design, keeping in mind at all times highest efficiency.

On account of the few parts, few bearings and the accuracy with which all parts are made, the friction in Vega separators is reduced to a minimum and as a result, it is a light-turning machine. Study the accompanying diagrams of the parts and you will be convinced.

The tinware of Vega separators is all made of the heaviest quality of Swedish tinned steel plate. The milk supply tank is seamless and so constructed as to be very easily cleaned. The same idea has been carried out in making other parts of the tinware.

Vega separators are guaranteed to have a clean-skimming capacity, equal to or greater than what is claimed for them. If they are properly handled, according to our book of instructions, the percentage of fat left in the skim-milk is lower than that of any other machine on the market.

THE VEGA BOWL.

Perfect cleanliness is absolutely necessary if cream of good quality is to be obtained. Every skimming device, no matter of what design or material, should be thoroughly cleaned every time it is used. It would be difficult to estimate the losses caused by unclean separator bowls.

The skimming bowl of the Vega is hygienic and sanitary in every respect. Every part of the bowl is easily accessible to cloth or brush. There are no joints or pin holes, no small tubes or narrow slots to catch and hold filth.

The Vega bowl, owing to its large circumference, gives great centrifugal force, consequently, separation is more perfect, and the bowl itself is easily cleaned. The Vega bowl requires little power to revolve it, therefore, it causes the least strain and wear on the driving gear, thus adding to the durability or life of the machine. The Vega bowl is detached from the spindle, and interlocks with it when in position. The spindle always remains in the machine. This avoides springing or other injury to the spindle, which will cause the bowl to wobble.

Often the claim, ease of cleaning, is made on account of the few parts in the bowl. This is not always essentially true, as the number of parts is not nearly so important as their construction and arrangement. While the Vega bowl has fewer parts than the bowls of other standard separators, we do not base our claim for ease of cleaning on that alone. Every part of the bowl that is touched by the milk or cream can be easily washed and cleansed by the use of a cloth or brush.

Some separator bowls have what they call a split-wing device for distributing the whole milk to the skimming discs. This, as the term implies, consists of wings or fins which extend out from the central tube and through which are cut narrow slots for the milk to flow into the skimming discs. It is impossible to reach the interior of these slots with cloth or brush and the only cleaning that can be done is to flush them with water. The whole milk is distributed in the Vega bowl by a distributing disc, which can be slipped from the central tube and washed as easily as a tea cup.

The bowl of the six-hundred-pound capacity separator has only seventeen discs. This does away with half of the washing. And, these discs are all alike and interchangeable, not numbered. On account of this feature, when cleaning the Vega bowl, the discs are usually put into the washing vessel and washed as easily as saucers. There is no trouble in reassembling them because there is no regular order in which they must be put back into the bowl, which makes it possible to thoroughly clean the bowl and reassemble it in less than two minutes.

Bowl Parts

CHAMPION.

Nos. 30 to 70.

The Champion Patented Cream Separator when properly set up and run the number of revolutions given on the crank will skim milk at a wider range of temperatures as clean or cleaner than any other separator manufactured.

Separator is furnished with a patented speed indicator. This indicator is attached to handle of separator and rings at each revolution of handle until proper speed is obtained, when the bell stops ringing.

The only machine which can be run by power by removing handle.

Neck bearing spring all one piece.

Each size separator will skim to its full rated capacity and will produce a fine smooth quality cream of any density of richness desired.

Every part of the Champion separator is made from the best materials and by the best workmanship and should any part show defects in material or workmanship during its first year's use, the part or parts will be replaced free of charge.

All moving parts in the Champion "Patented" Separator are oiled automatically by spray oiling to insure the longest wear and best service. We have besides this also provided a sight feed glass oiler for the upper worm spindle bearing on all separators skimming over 250 pounds to insure fresh clean oil for its high speed bearing.

The gear casing is made of best grade cast iron, enclosing the gearing and at the same time forming an oil chamber from which all bearings are oiled automatically. The casing is closed so no milk or dust can get into the oil and no oil with the milk.

Champion equalizing sleeves distribute the whole milk equally to or between each and every disk.

Champion Cream Separators are manufactured by one of the largest and most reliable manufacturers of fine tools in the world. Their vast experience with a plant fully equipped with all up-to-date automatic labor saving machines, place them in a position to furnish highest grade goods at minimum cost of production.

Champion Patented Centrifugal Cream Separator represents a revolution in invention and improvements, which produces results that fill ambitions and requirements never before accomplished in separating cream from milk with cream of any density and richness. This invention represents equal uniformity in the feeding of the whole milk from the supply to the disks or the thin spaces between the disks to the extent that each and every disk in the bowl does its equal and full proportion of skimming. The disks' uniformity for skimming is so complete that we guarantee the test taken from the composite of skimmed milk practically equally clean to any test taken during the run; and at the same time will skim clean, within any reasonable range of temperatures, as all other separators feed the whole milk from the supply into the separator disks in a direct body flow, and therefore, flood part of the disks and clogs the balance.

All the Tinware is of the "One-piece" drawn sheet steel, heavily tinned, and we call special attention to the one-piece anti-splash supply tank, and the cream and skim milk covers.

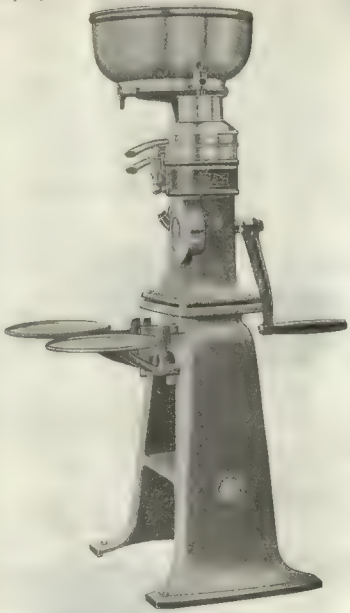
F. O. B., Lancaster, Pa.

Nos.	30	50	70
Capacity, pounds	300	500	700
Cows	1 to 5	1 to 8	1 to 14
Turns per minute	60	60	55
Approximate weight each, lbs.	170	175	225
Each	94.00	106.00	134.00

VEGA.

The Vega Sparator is not an experiment, but the result of thirty years growth and experience. The manufacturer has constantly aimed to build the nearest perfect separator possible with the smallest number of parts, simplest design and highest efficiency.

When buying a separator there are at least seven points to be considered, price, low cost of up-keep, durability, clean skimming, simpheity, easy cleaned and light turning, all these points are embodied in the Vega Separator. Each machine comes up to a high and inflexible standard in every respect.



LIGHT TURNING AND LUBRICATION.

On account of the few parts, few bearings and accuracy with which parts are made, the friction is reduced to a minimum and as a result the Vega is a light turning machine.

Nothing is of more importance than lubrication in the care of oding, some use too much oil, others not enough. Vega Separators eliminate this trouble as they are fitted with the splash oil system; the rapidly revolving middle wheel of the Vega throws oil in a spray filling the interior chamber of the frame with an oil mist which reaches every bearing

MATERIAL. AND WORKMANSHIP.

Only the highest quality of material is used in the construction and every part is made from the special kind of material found to be best suited to the particular use to which it is to be put.

Only the best of Swedish fine iron, steel and phosphor bronze are used. Rigid system of inspection, testing and trial insures against any defective material or workmanship. This insures the purchaser of a Vega a perfect machine and one that will give a long period of service.

EXTRA RUBBER RINGS.

For Nos. G and L Vega Separator.

	Each
No. ERG	$0.36
No. ERL ...	.40

SEPARATORS COMPLETE WITH BASE.

No.	G	L	M
Separating capacity per hour, lbs.	450	600	900
Separating capacity per hour, gallons.	60	80	100
Shipping weight complete, lbs.	120	140	160
Each	$70.00	80.00	90.00

SEPARATORS WITHOUT BASE.

Nos.	GWB	LWB	MWB
Same size and description as No.	G	L	M
Shipping weight, lbs.	90	105	110
Each	$55.00	65.00	75.00

SEPARATOR BASES ONLY.

Nos	GBO	LBO	MBO
For Separator, No.	G	L	M
Shipping weight each, lbs.	60	60	60
Each	$18.00	18.00	18.00

Separators, one in a wood box; bases, in bulk.

THREE-IN-ONE.

Lubricates perfectly guns, machinery of all kinds including the most delicate clock works, sewing machines, bicycles, chain bearings and all points of friction.

For firearms it has no equal. It removes all residue of black or smokeless powder and prevents leading and pitting. It cleans and polishes the surface of the barrel. It lubricates the mechanism and never gums or hardens. Prevents rust on all metallic surfaces in any climate.

Per Dozen

No. 400—Three In One Oil; factory size bottles, in paper carton $9.60

No. 12—Three In One Oil; in 3-oz. bottles, in paper carton. . 4.80

No. 13—Three in One Oil; in 1-oz. bottles, in paper carton. 2.40

No. 200—Three In One Oil; in 3-oz. handy oil cans, one dozen put up in an attractive counter display case. 4.80

One dozen in a box.

REM OIL.

The perfect combination—lubricating oil, powder solvent and rust preventative. Cannot gum. Cannot damage anything made of wood or metal.

Because of its ability to disolve old, gummy oil, Rem Oil is ideal for use on typewriters, sewing machines, etc.

Per Dozen.

No. RO—Rem Oil; in bottles containing 2½ oz. net; weight per carton of one dozen bottles, 6 lbs. $3.70

HOPPE'S NITRO POWDER SOLVENT.

For cleaning high power rifles, shot guns, revolvers and fire arms of all kinds; removes and prevents rust; positively prevents corroding; contains no acids. Eliminates the use of the brass brush in barrels (especially sporting rifles), which is more or less destructive to accuracy.

Per Dozen.

No. 9—Nitro Powder Solvent, in two ounce bottles $5.50

PYRAMID SOLVENT.

All rifles, shot-guns, revolvers, automatics should be cleaned immediately after using. Work patches of cotton cloth saturated with Pyramid Solvent through bore to neutralize and remove all residue of smokeless or black powder and loosen metal fouling. As Pyramid is free from moisture, it may be left in rifle after cleaning. Reduces the use of a brass brush to the very minimum and makes firearms last longer and shoot more accurately. Before putting arm away apply Three In One oil which will absolutely prevent rust in any climate.

Per Dozen

No. PS—Pyramid Solvent; put up in screw top flat cans that fit the pocket. $4 80

MANY-USE.

A light, thin oil guaranteed not to gum-Free from acids and kerosene and with good covering qualities

For sewing machines, talking machines, dental engines, guns, bicycles, lawn mowers, etc.

Makes harness and all kinds of leather soft and waterproof; keeps new machines new and in perfect order. It will not glaze oilstone.

Cleans gun barrels, machine parts, chains, etc.

Polishes pianos, furniture, floors, etc., producing a fine lasting lustre.

Prevents rust on guns and metals in hot, cold, wet or dry weather.

THE REVERSIBLE SPOUT IS IN THE CAN

Per Dozen

No. 2C—Many-Use Oil; 1-oz. bottles; in paper cartons. $1.70

No. 2RS—Many-Use Oil; 2-oz. cans with reversible oiler spouts. 3.00

Per Dozen

No. 3BBC — Many-Use Oil; 8-oz. ball bearing, adjustable spout cans; one dozen on a display stand. $4.00

One dozen in a box.

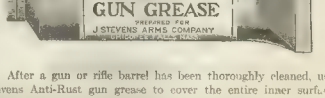
Each

No. 8C—Many-Use Oil; ½ gallon cans $3.00

One in a box.

ANTI-RUST GUN GREASE.

STEVENS.



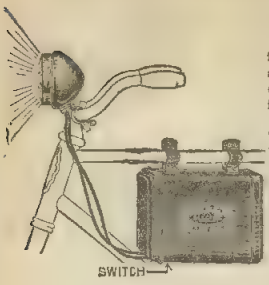
After a gun or rifle barrel has been thoroughly cleaned, use Stevens Anti-Rust gun grease to cover the entire inner surface to keep out moisture and prevent rust. When put away for a length of time, all metal surface should be coated in the same manner.

Per Dozen

No. SGG—Stevens Gun Grease; put up in screw top tubes $2.00

Packed twelve in a box.

BICYCLE LIGHTING OUTFITS



DELTA TWO CELL

This Light is of a Graceful Size and Shape. Contains a Special polished Reflector, designed to throw a powerful Searchlight.

Contains a Special Delta bulb carefully tested before being Shipped.

It has a Special Headlight clamp designed to hold the light Steady.

An ordinary wire connection eliminating the troublesome Edi-swan Screw connection. Special Switch has been placed on battery case to eliminate all mechanism on the lamp proper. Case holds two batteries.

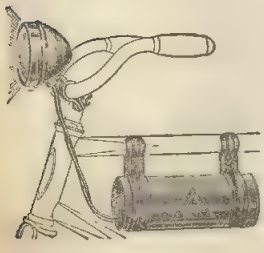
Per Dozen

No. 280—Lens about 3 inches in Diameter; Extra Heavy; Weight per Dozen 21 lbs. $36 00

One in a Carton

No. 280B—Extra Bulbs for Bicycle Lamps No. 280 .... 6.00

Loose

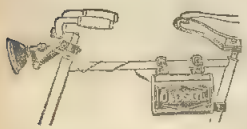


Same As No. 280 Except has a one cell battery case.

Per Dozen

No. 270—3 inch Lens, Extra Heavy..... $30 00
Weight per Dozen 21 lbs.
One in a Carton

No. 270B—Extra Bulbs for Bicycle Lamp No. 270..... 4.80



"OLD SOL" TWO CELL

Large Attractive Headlight with Bracket for Handle Bar. Front of Lamp 5 inches in Diameter. Silvered Reflector. Black Enameled Body, 24 inch Cable with Copper Terminals attached to off and-on switch plug at Rear of Lamp. Bulb-Edi-swan base 2.8 volt 2 C. P. with highly efficient Tungsten filament. Battery Box arranged for two dry cells and supplied with straps Black enameled.

Per Dozen

No. 40—Complete with Light, Bulb and Battery Case, but not Dry Cells; Weight 2 lbs. $32.00

One in a Carton

No. 40B—Extra Bulbs for No. 40 Lamp.... . . . . 6.00

Loose

COMBINATION HAND AND BICYCLE LAMP

Designed for use as a Hand Lampor a Bicycle Lamp; Each Lamp comes equipped with a Hand Bracket and an Attachment to be fastened to Bracket of the Bicycle or Motorcycle; Produces a Powerful Light and Eliminates all the Troubles of an Oil or Carbide Lamp; Mechanically Perfect and Thoroughly well made, producing a striking and pleasing appearance.

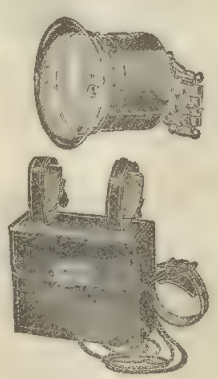
Stamped Steel Case, Black Japanned; Nickel Platedd Trimmings; Provided with Patent Screw to Secure Permanent Light; Extra Large Convex Ground Lens.

Per 100

No. 60—Size of Case 4¼x2½x1 inch; 2½ inch Lens; 3½ Volt Lamp; Takes No. 000B Battery and No. 1190 Bulb; Weight per 100, 58-1/3 lbs. $192.00

One in a Box

BICYCLE OR MOTORCYCLE LAMPS



Suitable for the Rider who Desires a Bicycle or Motorcycle Lamp of High Candle Power; Mechanically Perfect and Thoroughly Well Made the Well Proportioned Body Gives a Very Pleasing and Symmetrical Appearance; Equipped with a Russet Leather Battery Holder and Connecting Wire with Plug but Without Battery.

Finely Finished Black Japanned Stamped Steel Case; Nickel Plated Aluminum Reflector; Nickel Plated Brass Rim; Stamped Steel Bracket; Diameter of Case 6 inches; Depth 2 inches; 3¼ inch Finely Ground Convex Lens; Provided with Patent Screw to Secure Permanent Light.

Per 100

No. 70—3½ Volt Lamp; Takes No. 70B Battery and No. 1193 Bulb; Weight per Hundred 96 lbs. . . . . $3?6 00

One in [illegible]

FLASH LIGHTS

★NORLEIGH DIAMOND

Furnished with Tungsten Filament Bulbs and Powerful Reflectors, but Without Batteries.

VEST POCKET STYLE: METAL CONTACT WITH PATENT SLIDE LOCK

Side Opening Case

Brass Case, Heavily Nickel Plated and Polished; Metal Contact Button with Patent Slide Lock to secure permanent Light when desired. For general use, can be carried in Vest Pocket or Hand Bag.

Per 100

No. 00—Size 2¾x1½x¾ inches; **2½ Volt Lamp**; Takes No. 0B Battery and No. 1180 Bulb; Weight per 100, 11 lbs. **$84 00**

No. 01—Size 3⅛x1⅝ inches; **2½ Volt Lamp**; Takes No. 1B Battery and No. 118; Bulb; Weight per 100, 12 lbs. **84 00**

One in a Box; One Dozen in a Carton

Side Opening Case

Brass Case, Heavily Nickel Plated and Polished; Metal Contact Button with Patent Slide Lock to secure Permanent Light when desired. For general use; can be carried in Vest Pocket or Hand Bag.

Per 100

No. 02—Size 3½x2¼x¾ inches; **3½ Volt Lamp**; Takes No. 2B Battery and No. 1181 Bulb; Weight per 100, 18 lbs. **$108 00**

One in a Box; One Dozen in a Carton

Side Opening Case

Brass Case, Heavily Nickel Plated and Polished, Metal Contact Button with Patent Slide Lock to secure permanent Light when desired. For general use; Can be carried in Vest Pocket or Hand Bag.

Per 100

No. 03—Size 3¾x2⅝ inches; **3½ Volt Lamp**; Takes No. 000B Battery and No. 1190 Bulb; Weight per 100, 36 lbs. **$138 00**

One in a Box; One Dozen in a Carton

This cut shows internal construction of Nos. 00, 01, 02 and 03 Flash Lights.

FLASH LIGHT LANTERNS

HANDY

Especially Designed for use around the House, Stable and Garage, although will be found of great Benefit on many other numerous occasions; Equipped with a Steel Wire Handle for Carrying; Can also be Hung up so that the User can have a Permanent Light and at the same time have both Hands free to work with.

Case made of Hammered Stamped Steel; Gun Metal Finish; Nickel Plated Brass Trimmings; Provided with Patent Lever to Secure Permanent Light; Heavy Convex Bullseye Lens.

Per 100

No. 50—Size 3⅜x2¾x1⅛ inches; **3½ Volt Lamp**; Takes No 000B Battery and No. 1190 Bulb; Weight per 100, 41-2 3 lbs. **$132 00**

One in a Box

DELTA

Designed for use as a Hand Lamp or Carrying Lantern. Battery Case is made of Stamped Steel, Black Japanned and Takes two No. 6 Standard Dry Cells; Nickel Plated Trimmings; Folding Wire Handles on Back; Removable Wire Bail on Top; Sliding Contact; Button on Back; Case Opens on Top; Extra Fine Silvered Reflector 3 inches in Diameter with heavy Convex Polished Lens.

Per Dozen

No. 1D—Size 7½ inches high; 5½ inches wide; 2¾ inches deep; Weight per Dozen 24 lbs. **$36 00**

One in a Box

EXTRA BULBS

Per Dozen

No. 1DB—Extra Bulbs for No. 1D Lamp..... . **$4 00**

Loose

BICYCLE LIGHTING OUTFITS

For Bicycles, Motorcycles, Automobiles and Boats. They Operate on Regular 6 inch Round Dry Cell Batteries, Illuminating the Road ahead like a Big Automobile Head Light, throwing a Strong Steady Light from 200 to 300 feet. Made of Highest Quality Materials, very Effective and Lasting Quality. Easily Attached to any Bicycle Frame.

Cold Rolled Steel Battery Case 7⅝x 5½x3 inches; Black Gloss Baked Enamel Finish; Complete with Clamps and Strap for Fastening to Bicycle Frame; Drawn Brass Head Light Highly Nickel Plated and Polished; Nickel Plated and Polished Reflector with Special Glass Lens; Diameter of Lens 4¾ inches; Special Tungsten Bulb about Four Candle power; Two Conductor Wires with Plain Battery Connectors at One End and Special Edi-Swan Connecting Socket Switch at other End for Turning Light on or Off. This Type of Plug is held firmly together by means of Spring which positively prevents them from working loose

Per Dozen

No. 53—Without Batteries; Weight each 2 lbs.; Weight per Dozen 24 lbs. **$54 00**

Twelfth Dozen in a Carton

EXTRA BULBS

Per Dozen

No. 53B—Extra Bulbs for No. 53 Bicycle Lamps . . . **$6 00**

Loose

1847
Seventy Year Plate
1917

1847 ROGERS BROS.
SILVERWARE

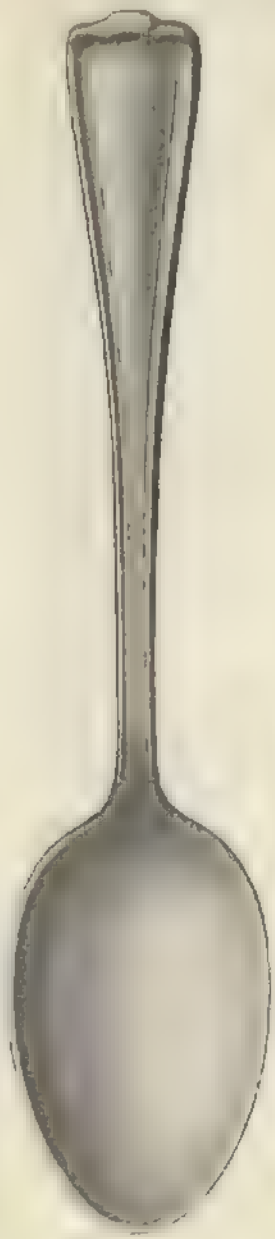
The Easiest Selling Merchandise

CROMWELL PATTERN

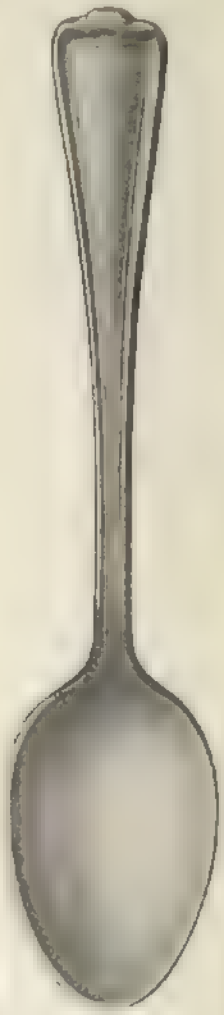
Bright

A design that fills every requirement for a plain pattern. The grading of the metal makes it mechanically perfect, the strength and weight of each piece being in the right place.

Table Spoon



Dessert Spoon



Tea Spoon

Dessert Fork

Dessert Knife

		Per Doz
No. 5442	Tea Spoons, twelve in unlined box	$10 35
No. 5443	Dessert Spoons, twelve in unlined box	18 40
No. 5444	Table Spoons, twelve in unlined box	20 70
No. 5445	Dessert Forks, flat handle, twelve in unlined box	18 40
No. 5446	Medium Forks, flat handle, twelve in unlined box	20 70

PRICES PER DOZEN

		Per Dozen
No. 5447	Medium Knives, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll	$32.40
No. 5448	Dessert Knives, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll	30 50
No. 5449	Breakfast Knives, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll	31 35
No. 5450	Medium Forks, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll	32 40
No. 5451	Dessert Forks, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll	30.50

ILLUSTRATIONS ACTUAL SIZE

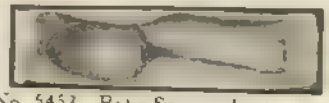
1847 Seventy Year Plate 1917

1847 ROGERS BROS.
SILVERWARE

The Easiest Selling Merchandise

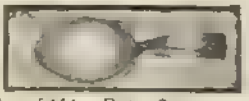
CROMWELL PATTERN

Illustrations One-third Scale

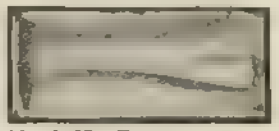


No. 5452 Baby Spoon short handle each $1 35
No. 5453 Short Handle Baby Spoon and Fork per set 2 70
No. 5454 Short Handle Baby Spoon and Fork and Food Pusher, per set 4 05

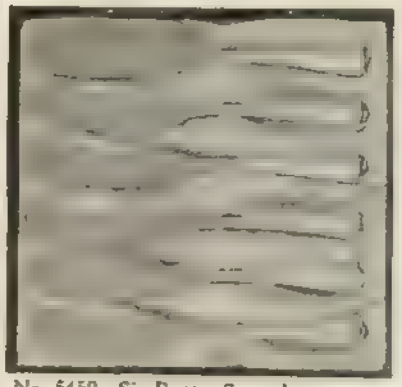
No. 5455 Baby Fork short handle each $1 35



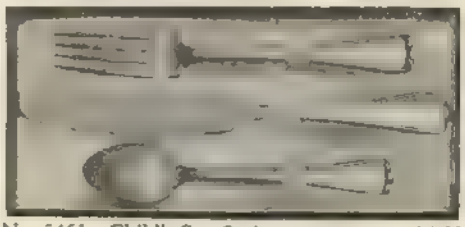
No. 5456 Baby Spoon, bent handle, ea $1 35



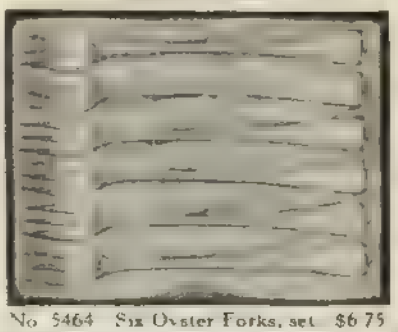
No. 5457 Food Pusher, each $1.35
No 5458 Baby Spoon, bent handle and Food Pusher, per set $2 70



No. 5459 Six Butter Spreaders, flat handle per set $ 8 35
No. 5460 Six Butter Spreaders hollow handle, per set 14 70

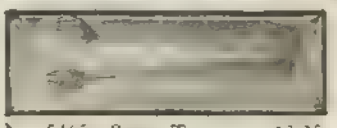


No. 5461 Child's Set, 3 pieces, per set. . $4.30
No. 5462 Child's Set, 3 pieces, with Nickel Silver, Silver Soldered, Hol. Handle Knife, per set 5.70
No. 5463 School Set, Dessert Knife, Hol Handle, Dessert Fork and Spoon, Tea Spoon and Napkin Ring, per set 8 75

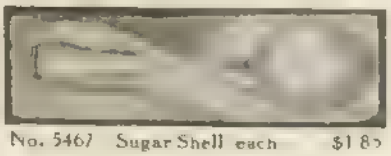


No 5464 Six Oyster Forks, set $6 75

No. 5466 Berry Spoon each $4 50



No 5465 Sugar Tongs, ea. $3 25



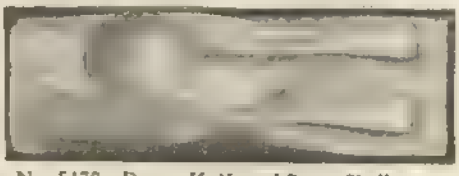
No. 5467 Sugar Shell each $1 85

No 5468 Cold Meat Fork each $2 55

No. 5472 Six Coffee Spoons, per set . . $5 20
No. 5473 Sugar Tongs and Six Coffee Spoons, per set $8 60
No. 5474 Six Five O'clock Tea Spoons, per set. $5 75
Length of spoons, 5⅜ inches

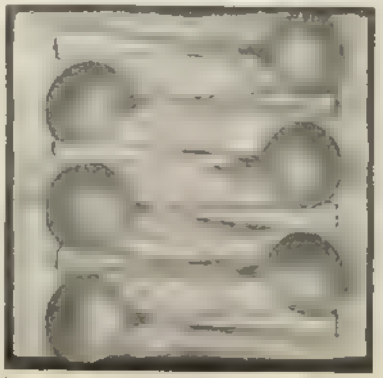
No 5469 Butter Knife, bent handle, each $2.15

No. 5471 Cucumber or Tomato Server, each $4 40

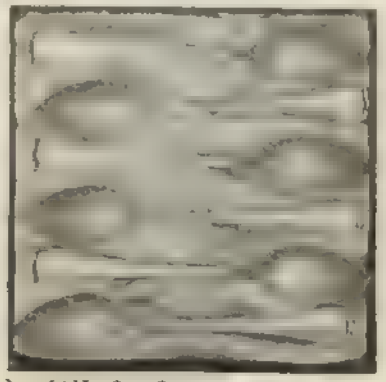


No. 5470 Butter Knife and Sugar Shell, per set. $3 90

No. 5475 Six Soup Spoons, per set $11.55



No. 5476 Six Bouillon Spoons, per set. $9.15



No 5477 Six Orange or Grape Fruit Spoons, per set. $6.55

1847 Seventy Year Plate 1917

1847 ROGERS BROS.
SILVERWARE

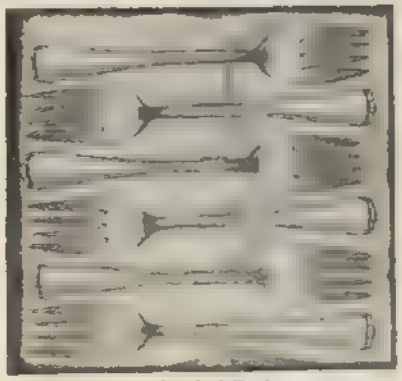
The Easiest Selling Merchandise

CROMWELL PATTERN

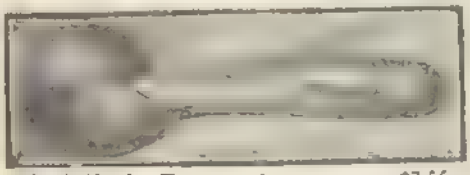
Illustrations One-third Scale

No 5478 Pie Server, hollow handle, each $5.45

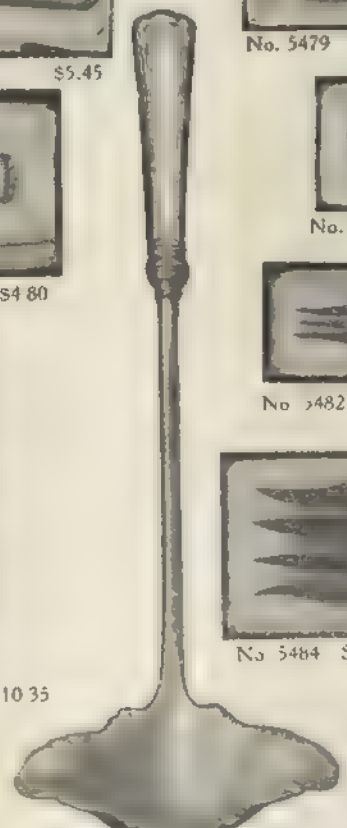
No. 5480 Salad Spoon, each $4 80



No. 5483 Six Individual Salad Forks, per set.... $10 35



No 5485 Ice Tongs, each..... $7 55

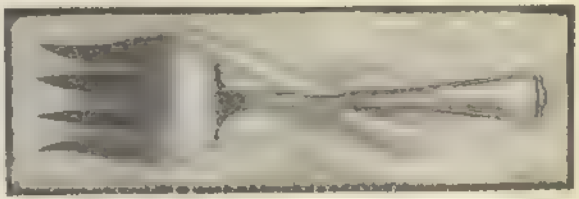


Punch Ladle, hollow handle
No. 5486 Each. $19.60
No. 5487 Gilt bowl..... 22 50
In lined box

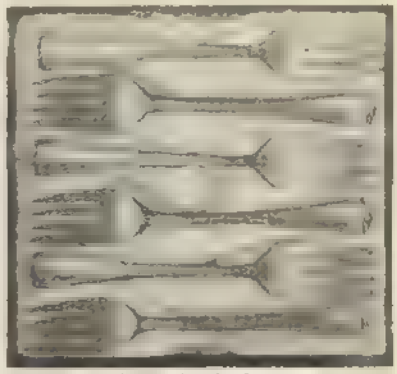
No. 5479 Cheese Scoop, hollow handle, each...$4 40

No. 5481 Teaette Spoon, each ... $5 30

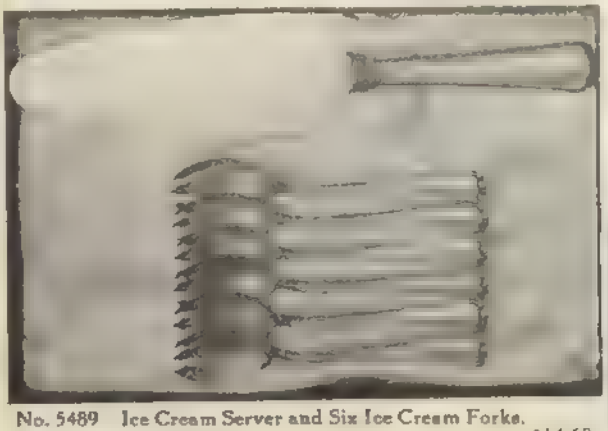
No 5482 Pickle Fork, long, or Olive Fork, each $2 00



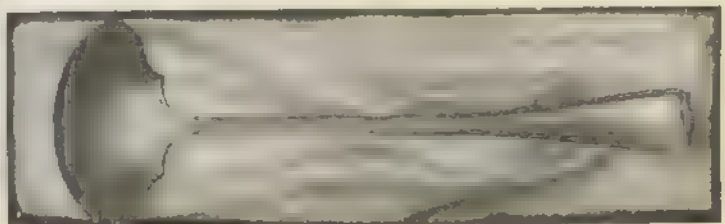
No 5484 Salad Fork, each $5 45



No. 5488 Six Individual Pastry Forks, per set.... $10.35



No. 5489 Ice Cream Server and Six Ice Cream Forks, per set $14 60
No. 5490 Six Ice Cream Forks, per set 8 15



No 5491 Medium Ladle (illustrated), each $10 05
No 5492 Oyster Ladle, each.... 7 55
No 5493 Cream Ladle, each 2 45
No 5494 Gravy Ladle, each . 3 25

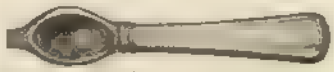
1847 Seventy Year Plate 1917

1847 ROGERS BROS. SILVERWARE

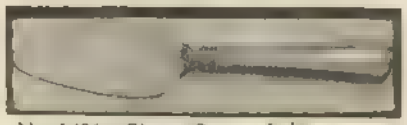
The Easiest Selling Merchandise

CROMWELL PATTERN

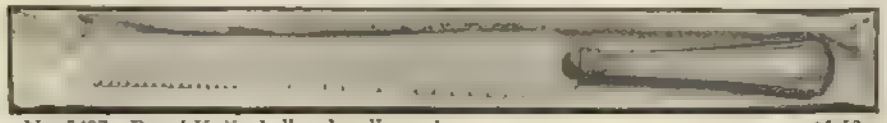
Illustrations One-third Scale



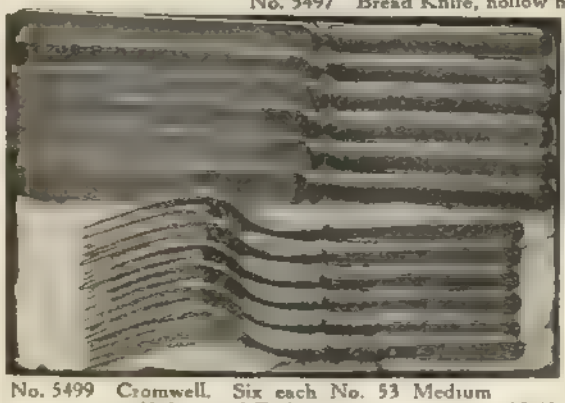
No. 5495 Bottle Opener, hollow handle, each..... $2 20



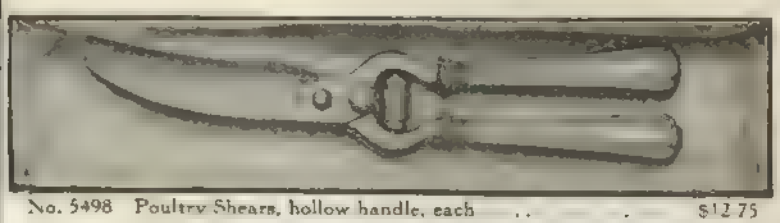
No. 5496 Cheese Server, hollow handle, each... $2.75



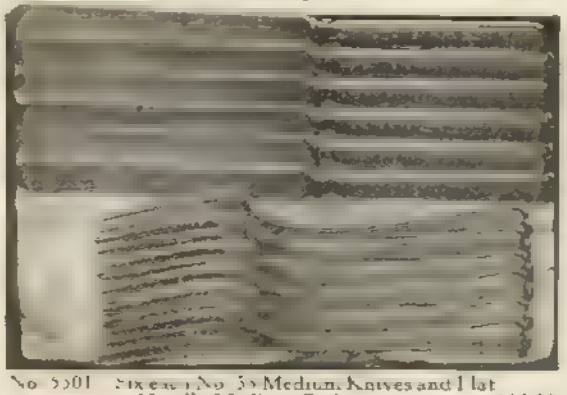
No. 5497 Bread Knife, hollow handle, each..... $5.50



No. 5499 Cromwell. Six each No. 53 Medium Knives and Forks, per set $12 45
No. 5500 Cromwell. Dessert, per set . 12 05

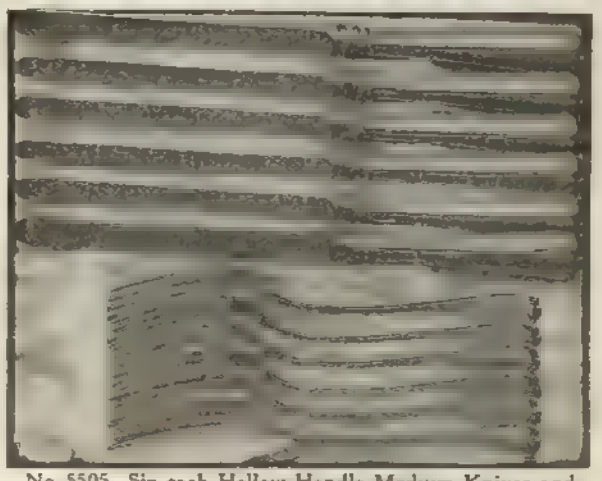


No. 5498 Poultry Shears, hollow handle, each .. $12 75



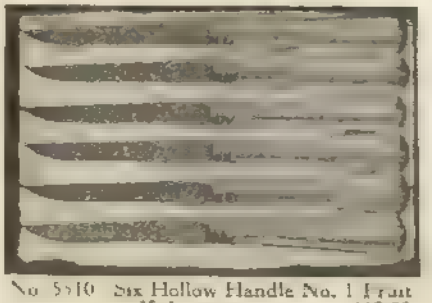
No. 5501 Six each No. 56 Medium Knives and Flat Handle Medium Forks, per set $16 90
No. 5502 Cromwell. Dessert, per set . 15.55

No. 5503 Iced Tea Spoon Per doz. $14.30 Six in lined box. No. 5504 Per set, $8.00

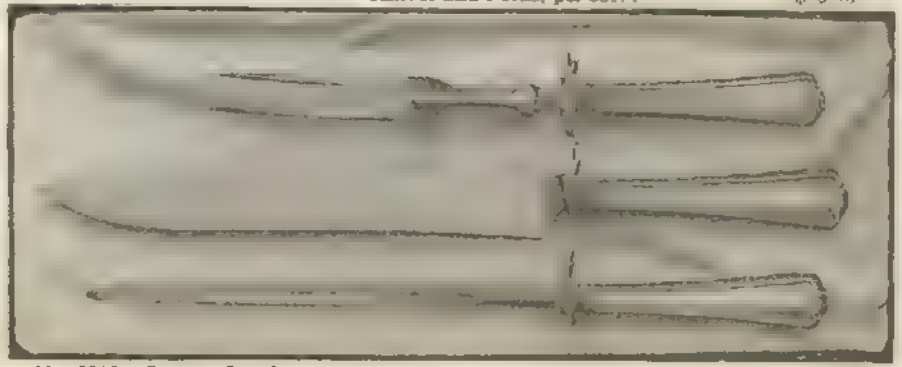


No. 5505 Six each Hollow Handle Medium Knives and Flat Handle Med Forks, (illustrated) per set $27.35
No. 5506 Cromwell Dessert, per set 2> 10
No. 5507 Cromwell. Six each Hollow Handle Medium Knives and Forks per set $32 40
No. 5508 Cromwell Six each Hollow Handle Medium Knives and Dessert Forks, per set..... ...$31.50
No. 5509 Cromwell Six each Hollow Handle Dessert Knives and Forks, per set.. $30 50

No. 2 Fruit Knife



No. 5510 Six Hollow Handle No. 1 Fruit Knives, per set.....$12 85
No. 5511 Six Hollow Handle No. 2 Fruit Knives, per set . . 12 85
No. 5512 Six Hollow Handle No. 2 Fruit Knives saw back set 14 35



No. 5513 Carving Set, 3 pieces, per set $21 85
No. 5514 Game Set, 2 pieces, per set 15 45
No. 5515 Bird or Steak Set, 2 pieces, per set.. 10 20
No. 5516 Bird or Steak Set, 3 pieces, per set 14 70
Nickel Silver, Silver Soldered, Hollow Handles, Steel Blades.

AMERICAN CUT GLASS

TUMBLERS

Phi Pattern; Heavy Clear Crystal Blank; Elaborate American Cut in Deep Miter; Chain Diamond and [illegible]; Flowers in Gray Finish; Diamond Cut Base Column.

Per Dozen

No. G810—Half Pint; Height 4 inches; Diameter across Top 3 inches; Weight per Dozen 9¾ lbs..... $22 00

One in a Package

TUMBLERS

Heavy Clear Crystal Blank; Rich American Cut in Floral and Branch Designs in Gray Finish; Hob Star on Bottom; Narrow Scored Panels Around Base.

Per Dozen

No. G55—Half Pint; Height 4 inches; Diameter across Top 3 inches; Weight per Dozen 8¾ lbs..... $35.00

One in a Package

TUMBLERS

Malta Pattern; Heavy Clear Crystal Blank; Exquisite American Cut in Deep Miter and Floral Design; Flowers in Gray Finish; Diamond Panels in Small Cut Diamonds

Per Dozen

No. G710—Half Pint; Height 4 inches; Diameter across Top 3 inches; Weight per Dozen 8 lbs..... $17 00

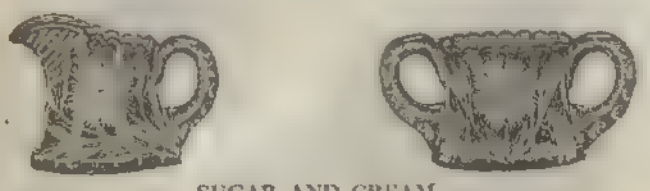
One in a Package

SUGAR AND CREAM

Per Pair

No. G805—Exquisitely Cut Rich American Glass; Deep Miter in Panel; Diamond and Floral Design; Flowers in Gray Finish; Height 4 inches; Weight each set 2½ lbs..... $9 50

One in a Package



SUGAR AND CREAM

Per Pair

No. G705—Malta; Exquisitely Cut Rich American Glass; Deep Miter and Floral Design; Flowers in Gray Finish; Height 3½ inches; Weight Each Set 2 lbs..... $6 50

One in a Package

AMERICAN CUT GLASS

WATER JUG

Phi; Deep Mitre Chain Diamonds and Floral Design with Exquisitely Cut Gray Flowers in Center, Rich American Cut; Extra Heavy Blank; Handle and Rim Deeply Cut and Scalloped.

Each

No. G411—Three Pint; Height 8 inches; Base 5½ inches; Weight 4⅜ lbs..... $7 00

One in a Package

WATER JUG

Malta; Deep Mitre and Floral Design with Gray Flower; Rich American Cut; Extra Heavy Blank; Diamond Band around Center; Handle and Rim Deeply Cut and Scalloped.

Each

No. G511—Four Pint; Height 10½ inches; Base 6¼ inches; Weight 4½ lbs..... $9 50

One in a Package

WATER JUG

[illegible] Base; Scalloped Rim on outer edge, Faceted Cut Handle.

Each

No. G45—Four Pint; Height 10 inches; Per [illegible] each 5 lbs..... $20 00

One in a Package

BUTTER DISH

[illegible] Crystal Glass [illegible] Very Daintily American Cut in Small Flower and Leaf Designs in [illegible] finish; Narrow Scored Panel around Base.

Each

No. G85—Size 5x4 Inches; 4½ inches High Over All; Weight 3 [illegible]..... $10 50

One in a [illegible]

BOUDOIR CLOCK

Heavy Clear Crystal Glass Blank; Rich American Cut in Floral and Branch Designs; Flowers in Gray Finish; Furnished with One Day New Haven Movement; 2 inch White Dial with Plain Glass Cover.

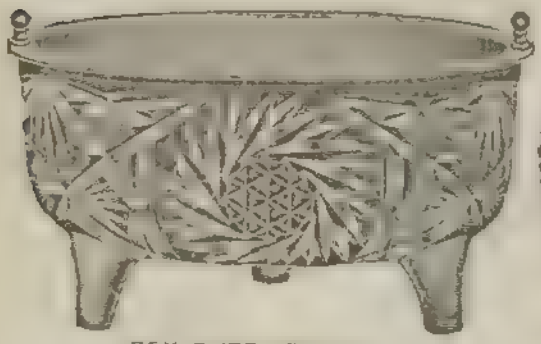
No. G95—Height [illegible] inches [illegible] 4x3 inches; Weight [illegible] 1¾ lbs..... $7 50

One in a Box

GENUINE CUT GLASS ASSORTMENT
*MASQUE ASSORTMENT
"ORIGINATED BY US"

This is the Most Complete Assortment of Cut Glass ever Assembled for the Convenience of the Retail Dealer. It Contains Goods of the Best Quality and Covers a Wide Range of the best Selling Items in the Cut Glass Line For Quality this Assortment cannot be surpassed and not another Line in the Country can offer to the Trade an Assortment of Cut Glass like this at such a Moderate Price

Highest Quality Heavy Lead Blanks are used Each Piece is Deeply Cut and Handsomely Polished Assortment Consists of the Twelve Best Selling Items, as Illustrated and Described below.

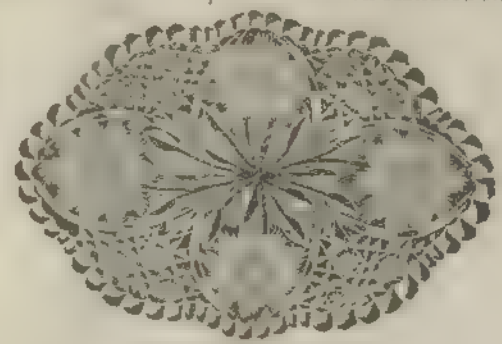


REX BUZZ DESIGN
8 inch Fern Dish

JUNE ROSE DESIGN
6 inch Handled Nappy

YALE DESIGN
8 inch Bowl

WILD ROSE DESIGN
10 inch Vase



JUNE ROSE DESIGN
7½x5 inch Bon Bon Dish

MIDWAY DESIGN
11 inch Celery Dish

JUNE ROSE DESIGN
6x4 inch Bon Bon Dish

Note:—The two Bon Bon Dishes [illegible] make a very attractive Mayonnaise Set when used together.

IOLA DESIGN
8x5 inch Bon Bon Dish

JUNE ROSE DESIGN
Sugar Bowl

JUNE ROSE DESIGN
Cream Pitcher

JUNE ROSE DESIGN
Globe Oil or Vinegar Cruet

JUNE ROSE DESIGN
5 inch Comport

Masque Assortment—(12 Pieces) Complete as shown and described above; Weight per Assortment 18 lbs. Packed Complete in a Carton.

Per Assortment $10 00

AMERICAN CUT GLASS

NAPPY

Malta Pattern; Extra Heavy Clear Crystal Oval Shape Blank; Deep Mitre and Floral Designs in Rich American Cut; Flowers in Gray Finish; Scalloped Edge.

Per Dozen

No. G504—Length 8 inches; Width 6 inches; Weight Each 1 lb. ... $36 00

One in a Package

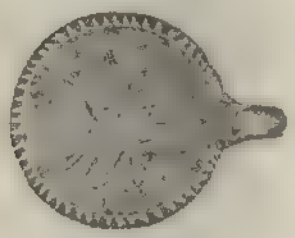
NAPPY

Malta Pattern; Extra Heavy Clear Crystal Blank; Rich and Exquisite American Cut in Miter and Floral Designs; Flowers in Gray Finish; Diamond Cut Panels.

Per Dozen

No. G604—Diameter 6 inches; 1½ inch Deep; Weight Each 1¼ lbs. ... $36 00

One in a Package



HANDLED NAPPY

Malta Pattern; Extra Heavy Clear Crystal Blank; Rich and Exquisite American Cut in Miter and Floral Designs; Flowers in Gray Finish; Faceted Handle; Diamond Cut Panels.

Per Dozen

No. G704—Diameter 6 inches; 1½ inches Deep, Weight Each 1½ lbs. ... $39 00

One in a Package

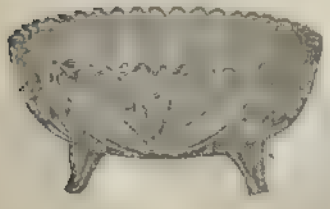
NAPPY

Malta Pattern; Extra Heavy Clear Crystal Blank; Rich and Exquisite American Cut in Miter and Floral Designs; Flowers in Gray Finish; Diamond Cut Panels; Gray Finish; Deep Scalloped Border, an unusually Handsome Nappy.

Each

No. G1004—Diameter 8 inches; 3 inches Deep; Weight Each 2½ lbs. ... $5 70

One in a Package



NAPPY

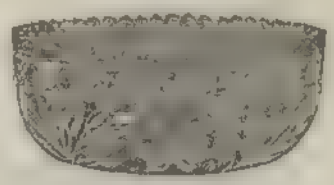
Kenwood Pattern; Tri-footed; Extra Heavy Clear Crystal Glass Blank; Very Elaborate American Cut in Floral and Diamond Designs; Flowers in Gray Finish. Diamond Panels in various Designs; Deep Scalloped Rim.

Each

No. G804—Diameter 8 inches; Height 4 inches; Weight Each 3 lbs. ... $8 50

One in a Package

AMERICAN CUT GLASS



BOWL

Narvon Pattern; Extra Heavy Clear Crystal Glass Blank; Very Rich American Cut in Floral and Mitre Designs in Combination Bright and Gray Finish; Deep Cut Block Border.

Each

No. G150—Diameter 8 inches; Extra Heavy Glass, Weight Each 3 lbs. ... $9 50

One in a Package

BOWL

Malta Pattern; Bell Shape; Extra Heavy Clear Crystal Glass Blank; Very Exquisite American Cut in Deep Miter and Floral Designs; Flowers in Gray Finish; Scalloped Wave Rim; Diamond Cut Panels.

Each

No. G350—Diameter 8 inches; Height 3½ inches; Weight Each 3½ lbs. ... $7.00

One in a Package

BOWL

Malta Pattern; Extra Heavy Clear Crystal Glass Blank; Exquisite American Cut in Deep Mitre and Floral Combination of Panel and Buzz Star Designs; Deep Scalloped and Wave Rim.

Each

No. G50—Diameter 8 inches; Height 3½ inches; Weight Each 3¾ lbs. ... $5 30

One in a Package

BOWL

Kenwood Pattern; Extra Heavy Clear Crystal Glass Blank; Elaborate American Cut in Floral and Diamond Designs; Flowers in Gray Finish; Diamond Panels in Various designs, Deep Scalloped Rim

Each

No. G550—Diameter 8 inches; Height 4 inches; Weight Each 4½ lbs. ... $10 50

One in a Package

BOWL

Tri-footed Ball Shaped Blank of Extra Heavy Clear Crystal Glass; Deep Scalloped and Milled Rim; Exquisite American Mitre and Floral Designs; Flowers in Gray Finish, Gray Finish; Deep Cut Diamond Clusters; Hob Star on Bottom.

Each

No. G750—Diameter Across Top 7 inches; Height 8 inches; Weight Each 4¼ lbs ... $12 00

One in a Package

AMERICAN CUT GLASS

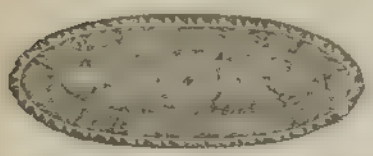
CELERY DISH

Sunflower Pattern; Heavy Clear [illegible] and Bright Diamond Cut Center, Diamond Border; Scalloped Rim.

Each

No. G40—Length 10½ inches; Width [illegible] inches; Depth 1½ inches. Weight Each 2½ lbs. $8 00

One in a Package



CELERY DISH

Parma; Deep Mitre and Floral Combination of Bright and Gray [illegible]

Each

No. G701 [illegible] inches; Weight 1¾ lbs. $6 30

One in a Package

CELERY DISH

Deep Mitre Work with Satin Fan Rays; An exquisite and popular design; Heavy Clear Crystal Glass.

Each

No. G801—Length 11½ inches; Width 4½ inches; Weight 1¾ lbs. $6 30

One in a Package

ICE TUB

[illegible] Bright, Deep Flower and Leaf Hob Star on Base, Deep Border of Fan and Diamonds Engraved Cut.

Each

No. G20 [illegible] Weight Each [illegible] $6 50

One in a Package

ICE TUB AND PLATE

Per Set

No. G10 [illegible] Heavy Clear Crystal Blanks; Rich [illegible] Deep Plate [illegible] Weight per Set [illegible] $6 50

One in a Package

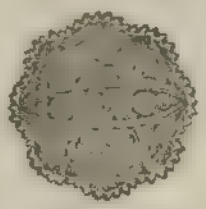
NUT BOWL

Diana; Rolled Edge Tri-footed; Deep Rich American Cut Floral Design; Flowers in Gray Finish

No. G650—[illegible] lbs. $5 50

One in a Package

AMERICAN CUT GLASS



MAYONNAISE SET

Per Set

No. G816—Harvest Pattern; Heavy Clear Crystal Blanks; American Cut, Deep Miter in Combination Panels and Buzz Stars in Bright and Gray Finish; Bowl 5 inches across Top, 3 inches Deep Plate 5 inches; Weight per Set 1¾ lbs. $4 50

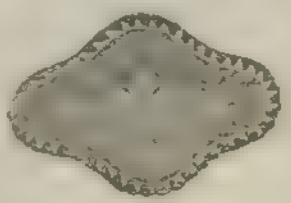
One in a Package

MAYONNAISE SET

Per Set

No. G416—Jerome Pattern; Medium Weight Clear Crystal Glass Blank; Rich American Cut in Floral and Diamond Panel Design, Flowers in Gray Finish; Diameter of Plate 6 inches; Diameter of Bowl 4⅜ inches; Height 3 inches; Weight per Set 1¾ lbs. $6 50

One Set in a Package



BON BON DISH

Kenmore Pattern; Heavy [illegible] Cut Diamond, Daisy Flower and Leaves; Scalloped Rim.

Each

No. G702 [illegible]; Width 5 inches; Weight Each 1 $20 00

One in a Package

COMPORT

Malta Pattern; Extra Heavy Clear Crystal Blank; Deep Rich American Cut in Mitre and Floral Design; Flowers in Gray Finish; Diamond [illegible] Stem with Notched

Each

No. G613 [illegible] 6 inches; Height 8 inches; Weight Each 1 lb. $5 50

One in a Package

COMPORT

Claudia Pattern; Extra Heavy Clear Crystal Blank; Deep Rich American Cut in Mitre and Floral Designs, Flowers in Gray Finish, Diamond Cut Panels; Hexagon Stem with Notched Corners.

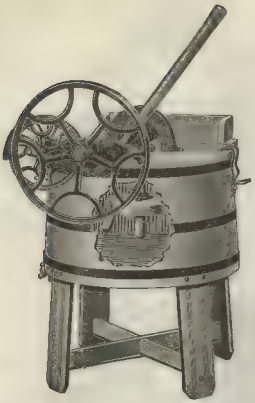
Each

[illegible] Weight Each [illegible] $5 50

One in a Package

BLACKSTONE.

QUALITY.



A noiseless machine that runs very easily, due to the bearings being perfectly balanced. It is equipped with ball bearings, all friction is eliminated.

Dolly or dasher is of latest improved type with shield on bottom to protect clothes from injury. The finest and most delicate laces as well as coarsest fabrics can be washed without injury.

Has latest improved cover lock, all gears are protected with shields; has double socket for operating handle, allowing operator to sit or stand when using machine.

Has cut gears, ball bearing fly wheel and post. Segment gear and handles are malleable iron, legs are bolted to tub and braced with quarter inch rods. Wringer board is hinged and cover fastener is bolted on. Bottom drain has screw outlet which allows all water to drain out.

Tub is made of selected Louisiana Cypress, finished in a dark oak finish, hoops are heavy steel and finished in gold bronze.

Each.

No. BQ—Blackstone Quality; capacity of tub 22 gal., dimensions of tub, depth 12 inches, diameter of top 24 inches, diameter of bottom 26 inches; weight each crated, 100 lbs. **$16.50**

One in a crate.

EXTRA PULLEYS.

Extra Pulleys—For B Q washers **$1.50**

IMPROVED CAPITAL.

The improved Capital Water Power Washer is guaranteed to operate successfully and do the work thoroughly if water pressure is 20 pounds or over. It contains all the good points found in best water motor machines including the following:

Safety dasher which prevents the tearing of clothes. Polished brass motor which is rust proof, no danger of sand holes like the cast painted motor, has large size roller back of gear rack which is concave on top to hold oil. No danger of gear rack getting bent out of shape.

Intake pipe has intake pipe to prevent dirt entering motor-hose is wire wound with weight on exhaust hose.

The motor is made with paupet valve and brass springs; paupet valves always seat themselves and the longer they are operated the tighter they become thus saving power; they act very quickly and take less power than the sliding valves.

The tub is made of everlasting Louisiana Red Cypress, extra large size with stave legs, handsomely finished, nicely varnished, gold bronze hoops and trimmings.

Each

No. C. P. B.—**Blackstone Water Power,** capacity of tub, 22 gallons; dimensions of tub, depth 12 inches, diameter of top 24 inches, diameter of bottom 26 inches; weight each crated, 100 lbs. **$19.50**

One in a crate.

QUICKER YET.

Gear and shaft driven throughout. Gears cannot get out of alignment as they run in bearings or boxings cast in one frame. All parts subject to severe strain are malleable cast or mild steel.

Fitted with an especially made, any position, reversible, swinging wringer with twelve-inch best quality wringer rolls. Handy lever controls operation of wringer. Safety roll release allows the rolls to be instantly thrown apart. Wringer will clear stationary laundry tub of standard height.

A substantial angle steel machine riveted frame well braced. Made of heavy one-inch material. Extension slides underneath machine tubs when not in use. Two by four feet is floor space required when not in use.

The choicest Louisiana red cypress is used exclusively in the manufacture of Quicker Yet tubs. Inside of tub corrugated Cypress is not subject to excessive warping, shrinking or splitting, and does not give forth an odor. Threaded metal drain faucet allows easy draining of tub. Quicker Yet cross-arm dolly gets a firm grip on the clothes, does not damage them and is very thorough in its action of whirling the clothes back and forth through the hot soapy water, thus cleansing them quickly. Being made entirely with the straight grain of the wood splitting is obviated. Dollies are fastened stationary to dolly shafts and adjust themselves automatically to clothes in tubs.

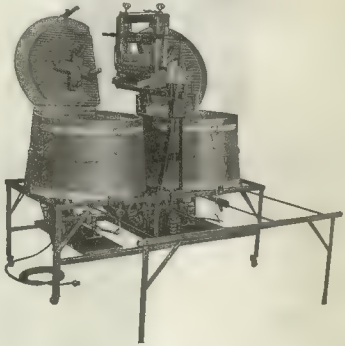
The tubs are beautifully finished in the natural wood, as is also the wringer. Metal parts that are likely to come in contact with the washing are galvanized. All other metal parts are finished in gold bronze and black. The frame is enameled in black. The entire machine is finished like a piece of high grade furniture.

POWER.

Each

No. QYDP—Quicker Yet Power; double tub, with extension for wash tub or basket; equipped with power pulley; weight complete crated, 300 lbs. **$117.00**

One in a crate.



ELECTRIC.

Each

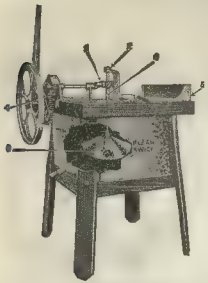
No. QYDE—Quicker Yet Electric; double tub, with extension for wash tubs or baskets; equipped with one-quarter H. P. motor, 110 volt, 60 cycle; weight of machine complete crated, 330 lbs **$182.00**

One in a crate.

NOTE—Our stock is 110 volt, 60 cycle, alternating current; other voltage or current will be shipped from factory and charged for on basis of cost at factory on date of shipment.

For Quicker Yet Repair Parts see page 1622.

KLEAN KWICK.



The washing principle of the Klean Kwick is that of forcing and pulling the hot suds through the clothes by air pressure and suction.

This is accomplished by means of a heavy galvanized cone shape stopper, 9½ inches in diameter. It raises, lowers and rotates, thereby displacing over two hundred and sixty gallons of water per minute, or in 3 to 5 minutes over a thousand gallons of hot water and steam are forced through the clothing.

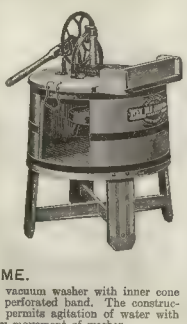
The construction of the Klean Kwick is of the highest grade; the tub is heavy galvanized iron with a smooth surface and is easy to keep clean; all gears are cut, thereby assuring quiet and ease of operation.

Wood parts are Louisiana cypress, natural finish and varnished, metal parts are aluminum bronzed

Each

No. KK—Klean Kwick; dimensions of tub, 20½x20½x11 inches; height over all, 38 inches; diameter of fly wheel, 16 inches; weight each crated, 86 lbs. **$18.90**
One in a crate.

PAN AMERICAN.



Has a special wringer board bolted to the tub which allows the attaching of a 12-inch roll wringer. Castings are machine fitted and are also heavier so as to prevent the usual great percentage of breakage. Dasher is of malleable iron heavily galvanized. Tub is of best grade Louisiana cypress, legs securely bolted and braced, natural finish.

Each

No. 22—Height to top of tub 32 inches; height of tub inside, 11 inches; diameter, 24 inches; weight crated, 59 lbs. **$7.00**
One in a crate.

ACME.

A vacuum washer with inner cone and perforated band. The construction permits agitation of water with every movement of washer.

Downward stroke forces air, steam and hot water through clothes. Quick lift gives great pulling power.

Washes curtains, laces, etc. without injury to fabric.

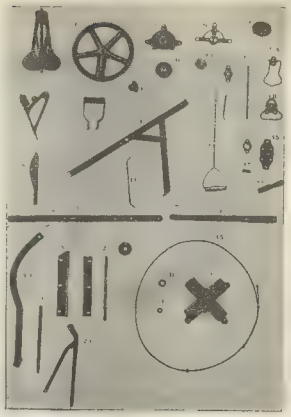
Made from heavy tin plate; no solder is used in its construction, this enables user to place washer on stove without danger of melting. Handle is plain finish hardwood.

Each

No. A—Acme Washer; diameter bottom, 8 inches; height over all, 45 inches; weight each, 1½ lbs. **$1.40**

WASHING MACHINE PARTS.

QUICKER YET

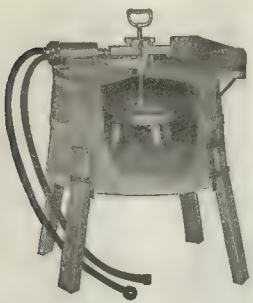


F. O. B. Perry, Iowa

	Each
1—Governor Balls	$3.00
3—Main Lever	.60
4—Ball Bearings	.40
5—Top Gear Case	.45
6—Bottom Gear Case	.45
7—Dolly Post Gear	.45
8—Rack Bar	.50
10—Spring	.20
13—Wringer Box Brace	.08
14—Wood Handle for Main Lever	.15
15—Wire Pull for Main Lever	.30
16—Leg Brace	.15
17—Large Gear Wheel Stud	.15
19—Leg Brace	.15
20—Drain Spout	.15
21—Water Plug	.10
23—Links	.75
26—Post for Governor Balls	.55
27—Dolly Post	.55
28—Rack Slide	.40
29—Rack Adjuster (Old Pattern)	.40
30—Pitman Rod	.55
31—Gear Frame	1.00
34—Washer for No. 43 Gear	.10
35—Middle Hoop	.40
38—Hinge	.15
40—Dolly Plate	.15
41—Agitator Handle	.15
42—Foot Pedal	.40
43—Arm Post Gear	.30
44—Fulcrum	.75
45—Wood Cross Braces for Legs	.40
E3—Main Gear Wheel	1.15
E19—Dolly Post Knob	.10
9A—Lid Latch	.30
9B—Lid Latch Handle	.30
25A—Dolly Arms and Pegs	.40
25D—Dolly Post Washer	.05
25E—Dolly Post Nut	.05

BOSS.

WATER POWER.



Semi-springless piston type. Has all the good points of the springless type motors, being so designed and constructed as to operate on low pressures where springless motors cannot be used. Will operate equally as well on high or low pressures.

Instead of being hammered to their seats at each reversal of the piston, the valves are gently seated by the single spring, which is so placed and made that it can never break or require replacement. Constructed of brass and phosphor bronze throughout.

Has heavy cast brass cylinder, rigidly set on heavy bracket having double bearing for dasher post and roller guide for piston—perforated metal screen before inlet port to keep dirt out of motor. Handle on dasher post to release dasher from clothes before opening and closing lid. Dasher adjusts through top of motor. No projection through or below dasher. Accident-proof, covered gear and rack.

Equipment.

Motor complete as described, with high-grade intake and exhaust hose. Large cypress tub, natural finish, with reinforced top—corrugations on inside—cypress dasher—detachable lid—bolted wringer attachment—detachable hardwood legs as shown, or solid legs when so ordered. Galvanized hardware and castings.

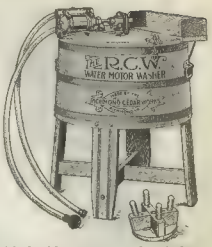
Each

No. BSM—Boss, semi-springless; height, 30 inches; depth of tub inside, 12 inches; diameter of top, 23 inches; capacity, 8 shirts; weight crated, 65 lbs. $24.00
Consumers Price **$23.50**

One in a crate.

RICHMOND.

WATER POWER.



The mechanical principle of this machine is positive in its action. All the gears are encased in accident proof covers.

The dolly is made of selected seasoned hardwood, has smooth well anchored pins and is of a design capable of heavy duty.

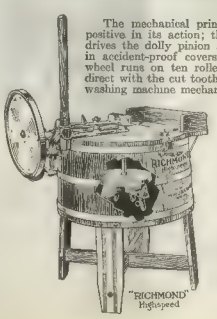
Tub is made of Virginia white cedar, corrugated on the inside and will last a lifetime. The extension stave legs are bolted securely to the tub and are well braced with hardwood sections bolted through from side to side; well braced wringer box; never slip lid lock. Finished with two coats of agricultural filler and varnished; hoops finished in gold bronze.

The patented water motor is especially suited for this size machine and is very simple; used on ordinary city pressure with the least amount of water.

Each

No. RCW—**Washer;** diameter of tub, top 21½ inches, bottom 23 inches; height of tub, 12½ inches; height over all, 27 inches; weight each crated, 120 lbs. **$55.00**

HIGH SPEED.



The mechanical principle of this machine is positive in its action; the segment lever directly drives the dolly pinion and all gears are incased in accident-proof covers. The well balanced fly wheel runs on ten roller bearings and is geared direct with the cut tooth gears so as to produce a washing machine mechanism with no dead center.

Fly wheel has a flat rim which can be belted up if desired. The lever socket is designed with two different positions to permit the operator to change the angle of the lever.

Dolly and tub same as Richmond water power washer except that tub is furnished in mahogany stain, varnished.

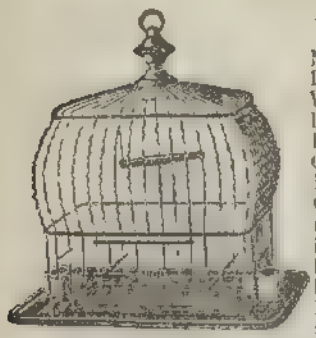
Each

No. RHS—**Washer;** diameter of tub, top 21½ inches, bottom 23 inches; height of tub, 12¼ inches; height over all, 27 inches; weight each crated, 115 lbs. **$22.00**

BIRD CAGES

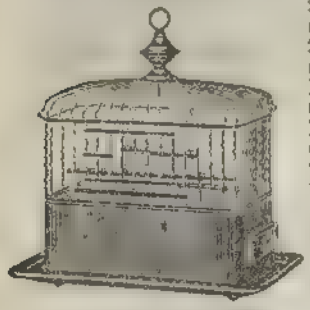
IN ASSORTMENTS

BRASS



No. 960
FANCY OBLONG SQUARE

No. 5002
OBLONG SQUARE



Nos. 3001G and 3002
FANCY OBLONG SQUARE

Nos. 7004 and 7006DB
OBLONG SQUARE

Made of Brass Wires Rivited to Rails or Cross Bars and Closed at the Top into a Heavy Brass Ring; Removable Brass Bottom Self Closing and Self Fastening Doors; Opal Feed Cups; Three Wood Perches; Swing, Feed Cups, etc. Included.

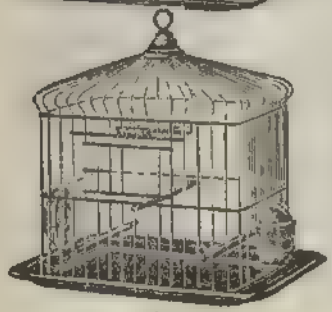
Assorted in Cases of Six

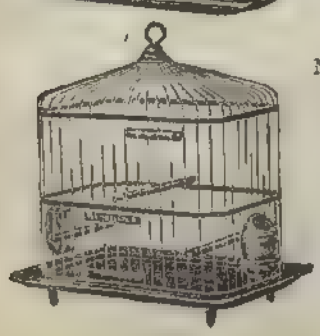
Per Assortment

No. 55—Assortment Contains **Six Cages**; One No. 960, Size 10¾x8½x15½ inches High; One No. 5002, Size 9x6x11½ inches High; One No. 3001G, Size 9⅝x6½x13½ inches High; One No. 3002, Size 10½x7½x14 inches High; One No. 7004, Size 9⅝x6½x12¼ inches High; and One No. 7006BB with Drawer Base, Weight per Assortment 28 lbs..... **$35.00**

OBLONG SQUARE

Assorted in Cases of Six
All with Brass Wire Guard





Per Assortment

No. 54—Assortment Contains **Six Cages**; One No. 7002G, Size 9x8x12¼ inches High; Two No. 7004G, Size 9⅝x6½x12¼ in High; Two No. 7006G, Size 10⅛x7¼x13¼ in. High; and One No. 7008G, Size 10¼x7¼x13½ in. High; Wt per Case 26 lbs..... **$42.00**

BRASS

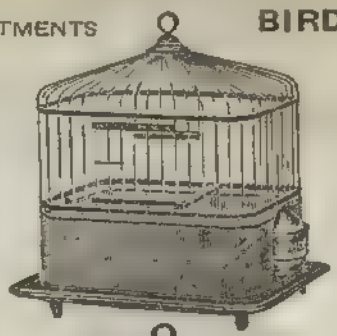
Per Assortment

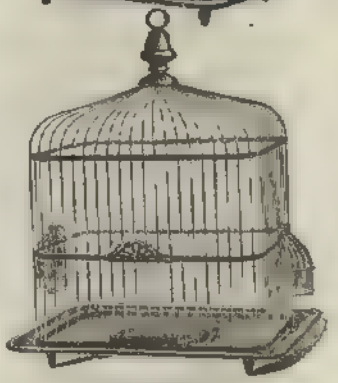
No. 52—Assortment contains **Six Cages**; One No. 7002, Size 9x6x12¾ in. High; Two No. 7004, Size 9⅝x6½x12¾ in. High; Two No. 7006, Size 10⅛x7⅛x13¼ in. High and One No. 7008, Size 10¾x7¼x13½ in High, Weight per Case 26 lbs..... **$26.50**

WHITE ENAMELED BRASS TRIMMED

Per Assortment

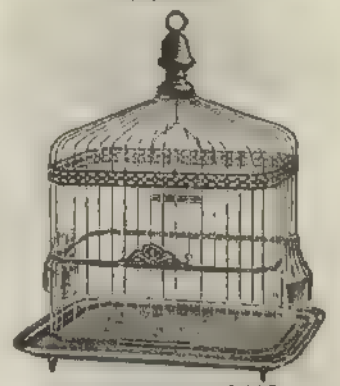
No. 6¾—Assortment contains **Six Cages**, One No. 231, Size 9¾x6¾x15¼ in. High; One No. 232; Size 10½x7x16 inches High; One No. 232G with Guard; Size 10½x7x16 in High; One No 233 Size 11x7½x16¾ in. High; One No. 233G with Guard, Size 11x7¼x16 in. High and One No. 234, Size 12¼x8¼x17½ in. High; Weight per Case 28 lbs..... **$24.00**



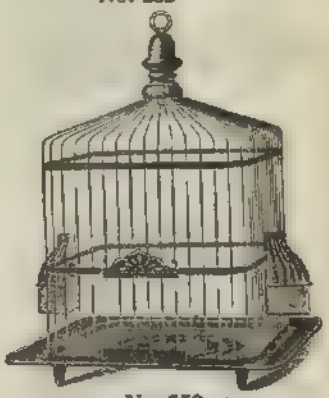


No. 165

No. 181



Nos. 061, 062 and 067



No. 159

WHITE ENAMELED; BRASS TRIMMED

SIX CAGE ASSORTMENT WITH GUARD

Per Assortment

No. 7—Assortment Contains **Six Cages** with Guard, Two No. 232, Size 10¾x7x16¼ inches High; Two No. 233, Size 11x7½x16¾ inches; and Two No. 234, Size 12¼x8¼x17½ inches; Weight per Case 40 lbs...

Per Assortment

No. 6½—Assortment contains **Six Cages**; Two No. 232, Size 10¾x7x16 in. High; Two No. 233, Size 11x7½x16¾ inches High and Two No. 234, Size 12¼x8¼x17½ inches High; Weight per Case 35 lbs..... **$31.00**

WHITE ENAMELED

Made of Iron Wire, Enameled White and Decorated in Colors; Wires Pass Through Rails or Cross Bars of Best Charcoal Tin Plate in Tube Form, Double Punched to Give a Firm Hold; Self Adjusting, Self Locking Spring Bottom Fasteners; Furnished with Three Perches, Slotted to Fit Narrowest Width of Cage; Complete, with Swings, Feed Cups, etc.

Per Assortment

No. 4—Assortment Contains **Six Cages**; One No. 061, Size 8¾x8¾x16½ inches High; One No. 168, Size 12¼x8¾x17½ inches High; One No. 067, Size 11x7½x16½ inches High; One No. 181, Size 8x8x17¼ inches High; One No. 165, Size 9¾x6¾x15¾ inches High, and One No. 159; Size 7½x7½x15 inches High; Weight per Case 24 lbs..... **$15.00**

One Assortment in a Case; We Do Not Break Cases.

BIRD CAGES

WHITE ENAMELED

In Cases of Six Assorted Cages

Made of Iron Wire, Painted White and Decorated in Colors, Wires Pass Through Rails or Cross Bars of Best Charcoal Tin Plate in Tube Form, Double Punched to Give a Firm Hold. Self Adjusting, Self Locking Spring Bottom Fasteners; Furnished with Three Perches Spotted to Fit Narrowest Width of Cage; Complete with Swings, Feed Cups, etc.

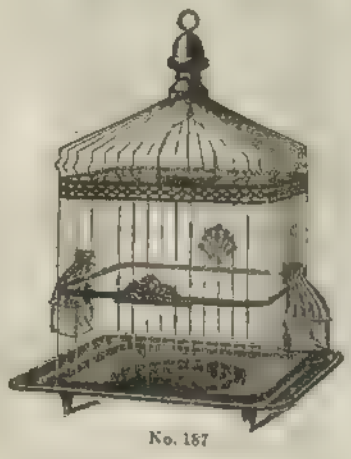
No. 45

No. 180

No. 011

No. 150

No. 105

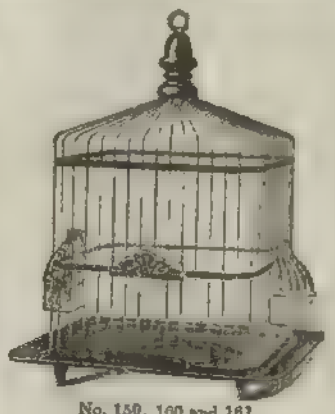


No. 187

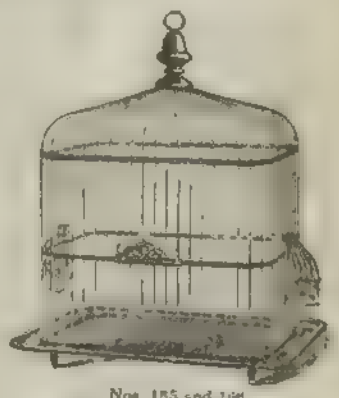
Per Assortment

No. 5—Assortment Contains Six Cages; One No. 187, Size 8¾x8¾x16½ inches High; One No. 45, Size 12x8x15 inches High; One No. 011, Size 10½x10½x16 inches High; One No. 105 Size 11x7¾x18 inches High, One No. 180, Size 7½x7½x10½ inches High, and One No. 150, Size 9½x9½x18½ inches High; Weight per Case 30 Lbs. $20 00

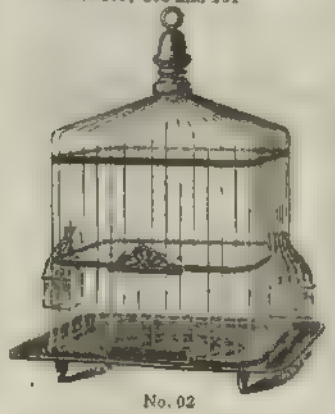
One Assortment in a Case; We Do Not Break Cases.



No. 159, 160 and 161



Nos. 155 and 166



No. 02

Per Assortment

No. 22—Assortment Contains Six Cages; One No. [illegible], Size [illegible] inches High; One No. [illegible], Size 8x8x10½ inches High; One No. [illegible], Size 8½x8½x15½ inches High; One No. [illegible], Size 9½x9½x17½ inches High; One No. [illegible], Size 10½x10½x18½ inches High, and One No. 62, Size 8½x8½x16½ inches High; Weight per Case 25 lbs. $13 50

Nos. 065 and 066

No. 06

Nos. 059, 060 and 061

Per Assortment

No. 3—Assortment Contains Six Cages; One No. 061, Size [illegible] 15½ inches High; One No. 006, Size 10½x7x16 inches High; One No. 06, Size 8½x6x14½ inches High; One No. 059, Size 7½x7½x15 inches High; One No. 060, Size 8x8x16 inches High, and One No. 061, Size 8¾x8¾x16½ inches High; Weight per Case 24 lbs..... $13 50

One Assortment in a Case; We Do Not Break Cases.

BIRD CAGES

BRASS

IN ASSORTMENTS

Per Assortment

No. 100—Assortment of Six Cages, Consisting of Three Brass Cages, with Solid Brass Rail; Spun Brass Base, and Fitted with Brass Wire Guard, Sizes 10x16, 11x16½ and 11⅞x18 inches; and Three Fancy Japanned Cages; White Enameled, with Brass Guard; Colored Trimmings, Gold Stripes and Decorated Base; Sizes 10x16¾, 11x17½, and 12x18 inches; Weight per Assortment 25 lbs.....**$42.00**

One Assortment in a Case. We Do Not Break Assortments

BRASS, FANCY OBLONG SQUARE

Per Dozen

No. 960—10¾x8½ inch Body; Height 15½ inches; Weight per Dozen 34½ lbs.....**$84.00**

Loose.

BRASS, FANCY OBLONG SQUARE

With Brass Wire Guard and Removable Drawer in Base.

Per Dozen

No. 445DB—10¾x8½ inch Body; Height 15½ inches; Weight per Dozen 57 lbs.....**$170.00**

Loose.

Similar Construction as those described above.

Per Dozen

No. 5004—9⅝x6½ inch Body; Height 11¾ inches; Weight per Dozen 21¾ lbs.....**$48.00**

No. 5006—10½x7½ inch Body; Height 12¼ inches; Weight per Dozen 24¾ lbs.....**52.00**

No. 5008—10¾x7¾ inch Body; Height 12½ inches; Weight per Dozen 26 lbs.....**66.00**

Loose.

SOLD SEPARATELY

Made of 17 Gauge Brass Wire, Riveted (not Soldered) to the Rails or Cross Bars, and Closed at the Top into a Heavy Brass Ring; Removable Brass Bottom with Tin Mat; Self Closing and Self Fastening Doors; Oval Feed Cups Fit any Part of the Cage; Furnished with Three Metal Tipped Perches, Slotted to Fit the Narrowest Width of Cage; Complete With Swing, Feed Cups, and perches.

WHITE ENAMELED, GOLD TRIMMED

With Brass Wire Guard

Per Dozen

No. 232G—10x7 inch Body; Height 16 inches; Weight per Dozen 25 lbs.....**$56.00**

No. 234G—12¼x8¼ inch Body; Height 17½ inches; Weight per Dozen 30 lbs.....**60.00**

Without Guard

No. 231—9⅜x6¾ inch Body; Height 15¼ inches; Weight per Dozen 22½ lbs.....**$39.00**

No. 233—11x7½ inch Body; Height 16¾ inches; Weight per Dozen 26 lbs.....**44.00**

***No. 235**—13x8¾ inch Body; Height 18 inches; Weight per Dozen 33½ lbs.....**52.00**

Loose

PARROT CAGES

Made of No. 12 Tinned Wire Passing Through Tinned Steel Rails, Secured to Tin Rim at Top; Japanned Zinc Base, Improved Door Fastening; Two Tin Seed Cups; Wood Perch and Swing.

Per Dozen

No. 80—Diameter 14 inches; Height 22 inches; Weight per Dozen 84 lbs.....**$80.00**

No. 85—Diameter 15½ inches; Height 24 inches; Weight per Dozen 100 lbs.....**100.00**

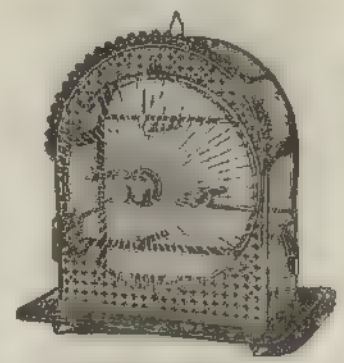
No. 90—Diameter 17½ inches; Height 29 inches; Weight per Dozen 132 lbs.....**140.00**

Loose.

Per Nest

No. PC3N—Nest of Three Cages, Nos. 80, 85 and 90 as Described above; Weight per Nest 26 lbs.....**$26.50**

One Nest in a Case; We Do Not Break Cases.



WHEEL CAGES

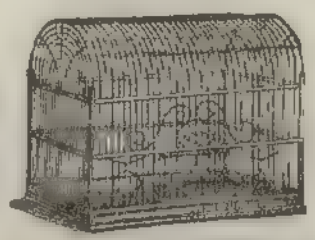
Revolving Perch Sections; Bright Enameled Wire, with Fancy Stamped Tin Front and Trimmings; Four Perches; Wire Carrying Handle; Affords a Delightful Exercise to Birds

Per Dozen

No. 1500—13¼x6½ inch Body; 16¼x12 inch Base, 19 inches High; Weight per Dozen 52 lbs.....**$66.00**

Loose.

CANARY, ROBIN AND MOCKING BIRD CAGES



Nested

Rosewood Frame; Tinned Wire Body with Ornamental Front; Sliding Wood Drawer; Self Closing Spring Doors; Complete with Partitions, Seed Cups, Perches, etc.

Dimensions of Cages

Canary, Size 17x9½x16 inches.
Small Robin, Size 19½x11½x18½ inches.
Large Robin, Size 22x12½x22¼ inches.
Small Mocking Bird, Size 23½x14x22¼ inches.
Large Mocking Bird, Size 25½x15x23½ inches

Per Nest of Five

No. WF1—Nest Contains One Each, Canary, Small Robin, Large Robin, Small Mocking Bird and Large Mocking Bird; Weight per Nest 75 lbs.....**$22.00**

Per Nest of Four

No. WF2—Nest Contains One Each, Small Mocking Bird, Large Mocking Bird, Small Robin and Large Robin; Weight per Nest 73 lbs.....**$16.50**

Per Nest of Three

No. WF4—Nest Contains One Each, Small Mocking Bird, Large Mocking Bird and Large Robin; Weight per Nest 65 lbs.....**$15.50**

No. WF6—Nest Contains One Each, Small Robin, Large Robin and Canary; Weight per Nest 45 lbs.....**12.00**

One Nest in a Case; We Do Not Break Cases

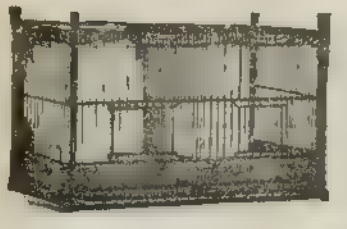
SQUIRREL CAGES
OCTAGON ALL METAL

Each

No. 020—Body is made of No. 12 Tinned Wire; Japanned Tin Top and Body; Decorated in Colors, Length of Body 24 inches; Width 16 inches; Height 22 inches; Size of Dome 12x12 inches; Size of Tread Wheel 12x9 inches; Weight Each 18 lbs..... **$19.00**

One in a Case.

BREEDING CAGES



Per Assortment

No. DBA—Assortment Contains Three Cages; One, Size 19x[illegible]x13½ inches; One, Size 21x11x14 inches; and One, Size 23x12x16½ inches; Weight per Nest 50 lbs. **$15.00**

One Assortment in a Case; We Do Not Break Cases.

BIRD CAGE SPRINGS

Brass Plated Coil Spring

Per Dozen

No. 10—With Hook and Ring; Length 3¼ inches; Weight per Dozen ½ lbs.. **$0.70**

One Dozen in a Box

Brass Suspension Spring

Per Dozen

No. 16—With Hook and Ring; Length Overall 3¼ inches; Weight per Dozen ½ lb.. **$1 80**

One Dozen in a Box

Extra Heavy Brass Spring

Per Dozen

No. 14—With Hook and Ring; Length Overall 3½ inches; Weight per Dozen ¾ lb..... **$1 50**

One Dozen in a Box

Brass Suspension Spring and Ladder Chain

Per Dozen

No. 182—With 3¼ inch Spring and 24 inch Chain; Hook and Ring; Weight per Dozen 5 lbs..... **$4.50**

One Dozen in a Box

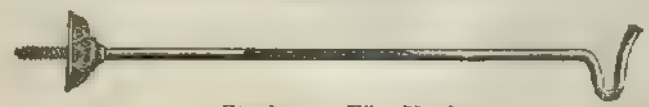
Brass Duplex Spring

Per Dozen

No. 19—With Hook and Ring; Length over all 5½ in.; Weight per Dozen 4 lbs..... **$5.50**

One Dozen in a Box

BIRD CAGE HOOKS



Stationary Wire Hooks

Brass Plated Hardened Steel; 1⅜ inch Cast Shoulder; 1 inch Screw

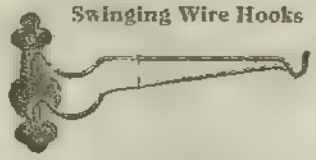
Per Dozen

No 6—3 inches Long; Weight per Dozen 2¾ lbs..... **$1.20**

One Dozen in a Box

BIRD CAGE HOOKS

Swinging Wire Hooks

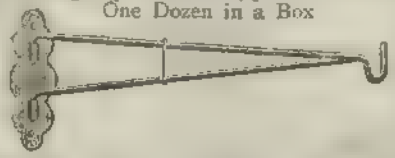


Extra Heavy

Per Dozen

No. 111—Brass Plated Steel; Length 10 inches; Size of Plate 5x1⅜ inches; Weight per Dozen 3¼ lbs..... **$2.20**

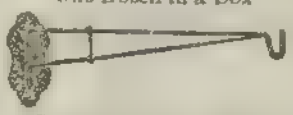
One Dozen in a Box



Per Dozen

No. 11—Brass Plated Steel; Length 10 inches; Size of Plate 4x1⅜ inches; Weight per Dozen 2¾ lbs..... **$2.00**

One Dozen in a Box



Swinging Wire Hooks

Per Dozen

No. 223—Nickel Plated Steel; Length 8 inches; Size of Plate 2⅞x1⅜ inches; Weight per Dozen 1½ lbs..... **$1.50**

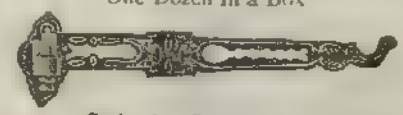
One Dozen in a Box

Stationary Wire Hooks

Per Dozen

No. 1280—Amber Bronzed; 9 inch Steel Wire Hook; 5¾x2¾ inch Iron Plate; Weight per Dozen 6 lbs..... **$1 80**

One Dozen in a Box



Swinging Iron Hooks

Per Dozen

No. 3024½—Amber Bronzed; 10⅛ inches Long; 2¾x1⅛ inch Iron Plate; Weight per Dozen 10 lbs..... **$0.90**

One Dozen in a Box

BIRD CAGE CUPS

For Japanned Cages

Per Dozen

No. JCC—Flint Glass; Size 3¾x2 inches; Weight per Dozen 2½ lbs..... **$1 00**

Loose.

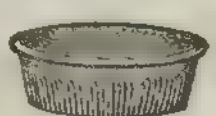
For Brass Cages

Per Dozen

No. BCC—Opal Glass, Size 3x1½x1¼ inches Deep; Weight per Dozen 3½ lbs... **$1.10**

Loose.

BIRD BATHS



Medium Size; 5¼x3¼x1⅜ in. Per Dozen

No. FGB—Flint Glass..... **$1 00**

No. OGB—Opal Glass; Weight per Dozen 5¼ lbs. **1 40**

Loose.

BIRD NESTS

Per Dozen

No. BN—Made of Wire Cloth with tin Rim; Wire Hook; Diameter 4 inches; Depth 2 inches; Weight per Dozen ¼ lb..... **$1.10**

Loose

POCKET KNIVES

*BRIDGE CUTLERY CO.

American Made, High Grade English Steel Blades, Carefully Forged, Ground and Tempered; Free from Flaws and Imperfections. FULLY GUARANTEED.

EMBLEM
All with Pyralin Handles

Two Blade Pen; Ballet Design; Clear Pyralin with Lithographed Emblems underneath; Length 3¼ inches; German Silver Bolsters; One large Clip and One small Pen Blade; Half Crocus polished; Brass Lining; Weight per Dozen 10 ozs.

Nos.	Per Dozen
2B466EM—Masonic	$21.00
2B466EMW—ModWoodmen	21.00
2B466EOF—Odd Fellows	21.00
2B466EKP—Knights of Pythias	21.00
2B466EOE—Eagles	21.00
2B466EE—Elks	21.00

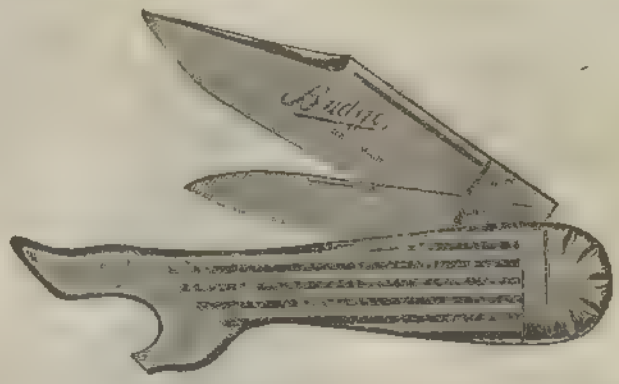
Two Blade Pen; Mother of Pearl Pyralin Handles with Enameled inlaid Emblems in Colors; Length 3 in.; German Silver tipped; One Large Spear and one File Blade; Half Crocus polished; German Silver Lining; Weight per Dozen 8 lbs.

Nos.	Per Dozen
2B473EM—Masonic	$22.00
2B473EOF—Odd Fellows	22.00
2B473EKP—Knights of Pythias	22.00
2B473ELOM—Moose	22.00
2B473EL—Owls	22.00
2B473EE—Elks	22.00
2B473EC—Knights of Columbus	22.00

Two Blade Pen; Ivory Grain Pyralin Handles with Enameled inlaid Emblems in Colors; Length 3¼ in.; One large Spear and one small Pen Blade; Half Crocus polished; Brass Lining; Weight per Dozen 12 oz.

Nos.	Per Dozen
2B458W Odd Fellows	$15.00
2B459W Masonic	15.00
2B464W Elks	15.00
2B482W Knights of Columbus	16.00
2B483W Knights of Pythias	16.00
2B484W Eagles	16.00
2B485W Modern Woodmen	16.00
2B503W—Moose	17.00
2B507W—Owls	17.00

All Above, Half Dozen in a Box



Pen; Ballet Design; Length 3¼ inches; German Silver Fancy Bolsters; Half Crocus polished; Brass Lining.

Pyralin Handles assorted Six different Colors in a Box, **Ivory Grain, Pink, Smoked Pearl, Carnelian, Black and White Stripe and Castile Red Mottled.**

One Blade	Two Blade
Per Dozen	Per Dozen
No. 1B435AC—One Large Clip Blade; Weight per Dozen 10 ozs. $10.00	No. 2B435AC—One Large Clip and One Small Pen Blade; Weight per Dozen 14 ozs. $15 00

Per Dozen

No. 3B494AP—Abalone Pearl Shell Pyralin Handle; Plain German Silver Bolsters, otherwise same as No. 2B435AC; Weight per Dozen 14 ozs. $16.00

BASE BALL BAT DESIGN

Two Blade Jack; Length 4 inches; German Silver Bolster; One large Clip and one small Pen Blade; Half Crocus Polished; Brass Lining; Weight per Dozen 1¼ lbs.

Per Dozen

No. 2B468¾AC—**Pyralin Handles**; assorted Ivory Grain and Brown Burntwood effect, three of each in a Box; Inlaid Official League Ball in Handle $14.00

*J. KOESTER'S SONS, GERMANY

High Grade Imported English Steel Blades, ground to a fine cutting edge; perfectly fitted and beautifully finished by skilled workmen; free from flaws and imperfections; Fully Guaranteed.

Art Craft Assorted Silver and Bronze Metal Handles with embossed Emblems; Two Blade Pen; Length 3⅝ inches; One Large Spear and One Small Pen Blade; Full Crocus Polished Weight per Dozen 14 ozs.

Nos.	Per Dozen	Nos.	Per Dozen
C6019M—Odd Fellows	$9.00		
C6022M—Modern Woodmen	9.00	C6026M—Knights of Columbus	$9.00
C6023M—Knights of Pythias	9.00	C6027M—Eagles	9.00

All Above, Half Dozen in a Box

POCKET KNIVES

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High Grade Imported; English Steel Blades, Ground to a Fine Cutting Edge; Perfectly Fitted and Beautifully Finished by Skilled Workmen. Free from Flaws and Imperfections. FULLY GUARANTEED.

TWO BLADE PENS

Lobster Pattern; Length 2⅝ inches; Uncapped; One Small Pen and One File Blade; Full Polished; German Silver Lining, Milled; German Silver Shield; Weight per Dozen 6 ozs.

Per Dozen

No. C2022P—Pearl Handle..... $17.00

Congress Pattern; Length 2½ inches; Uncapped; One Small Congress and One File Blade; Full Polished; German Silver Lining No Shield; Weight per Dozen 4 ozs.

Per Dozen

No. C2026P—Pearl Handle.....$10 50

Congress Pattern; Length 2½ inches; German Silver Bolsters; One Small Sheep Foot and One Small Pen Blade; Full Polished; German Silver Lining; German Silver Shield; Weight per Dozen 4 ozs.

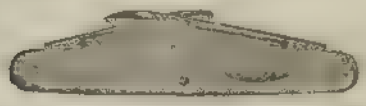
Per Dozen

No. C2017P—Pearl Handle..... $10.00

Balloon Pattern; Length 2½ inches; German Silver Fancy Bolsters; One Small Sheep Foot and One Small Pen Blade; Full Polished; German Silver Lining; German Silver Shield; Weight per Dozen 4 ozs.

Per Dozen

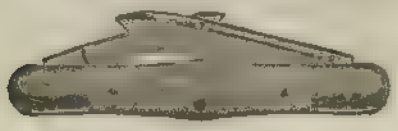
No. C2010P—Pearl Handle..... $9.50



Senator Pattern; Length 2½ inches; Uncapped; One Small Spear and One Small Pen Blade; Full Polished; Brass Lining, Milled, German Silver Shield; Weight per Dozen 6 ozs.

Per Dozen

No. C2062P—Pearl Handle..... $13.50



Balloon Pattern; Length 2¾ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 8 ozs.

Per Dozen

No. C2072P—Pearl Handle.....$10 00

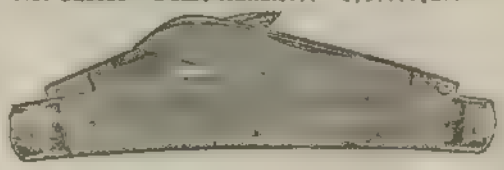
All Above, Half Dozen in a Box

TWO BLADE PENS

Wharncliffe Pattern; Length 3 inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining, Milled; German Silver Shield; Weight per Dozen 12 ozs.

Per Dozen

No. C2008P—Pearl Handle... .....$16.00



Congress Pattern; Length 3½ inches; Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade; Half Polished; Iron Lining; No Shield; Weight per Dozen 16 ozs.

Per Dozen

No. C2023P—Pearl Handle.....$21.00

Congress Serpentine Pattern; Length 3 inches; German Silver Tipped; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining, Milled; German Silver Shield; Weight per Dozen 8 ozs.

Per Dozen

No. C2027P—Pearl Handle..... $19.00

Senator Pattern; Length 3⅛ inches; Uncapped, One Large Spear and One Small Pen Blade, Full Polished, Unlined; No Shield, Weight per Dozen 10 ozs.

Per Dozen

No. C6006GM— Gun Metal Handle... $8 50

Congress Pattern; Length 3⅛ inches; Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade; Half Polished; Brass Lining; No. Shield; Wt. per Dozen 10 ozs.

Per Dozen

No. C2002GST—Genuine Stag Handle. $8 00

Sleeve Board Pattern; Length 3⅛ inches; German Silver Tipped; One Large Spear and One Small Pen Blade; Full Polished; Brass Lined, Milled; German Silver Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C2001P—Pearl Handle..... $19 00

All Above, Half Dozen in a Box

TWO BLADE PENS

Sleeve Board Pattern; Length 3 inches; Uncapped; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining, Milled; No Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C2006P—Pearl Handle..... $19 00

THREE BLADE PENS

Serpentine Pattern; Length 2⅛ inches; German Silver Bolsters; One Large Clip, One Small Pen and One File Blade; Half Polished; Brass Lining; No Shield; Weight per Dozen 12 ozs.

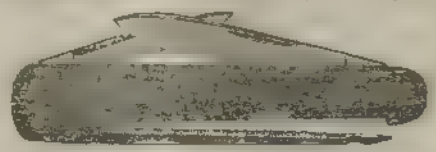
Per Dozen

No. C3071P—Pearl Handle.....$14 00

Lobster Pattern, Length 3¼ inches; Uncapped; One Large Spear, One Small Pen and One File Blade; Full Polished; Brass Lining, Milled; No Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C3046P—Pearl Handle..... $36 00



Lobster Pattern; Length 3 inches; Uncapped; One Large Spear, One Small Pen and One File Blade; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C3050GST—Genuine Stag Handle $20.00

Lobster Pattern; Length 2¾ inches; Uncapped; One Small Spear, One Small Pen and One File Blade; Full Polished; Brass Lining Milled; No Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C3009P—Pearl Handle..... $28 00

Shadow Pattern; Length 3 inches; Uncapped; One Large Spear and Two Small Pen Blades; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 10 ozs.

Per Dozen

No. C3049P-Pearl Handle $32 00

All Above, Half Dozen in a Box

POCKET KNIVES

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High Grade Imported English Steel Blades, Ground to a Fine Cutting Edge; Perfectly Fitted and Beautifully Finished by Skilled Workmen. Free from Flaws and Imperfections. FULLY GUARANTEED.

THREE BLADE PENS

Lobster Pattern; Length 2½ inches; Uncapped; One Small Spear, One Small Pen and One File Blade; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 8 ozs. Per Dozen

No. C3074P—Pearl Handle.....$24.00

Lobster Pattern; Length 3 inches; Uncapped; One Large Spear, One Small Pen and One File Blade; Full Polished; No Shield; Weight per Dozen 10 ozs. Per Dozen

No. C3031P —Pearl Handle; German Silver Lining..... $30.00

No. C3078GM—Gun Metal Handle; Unlined..... 16.00

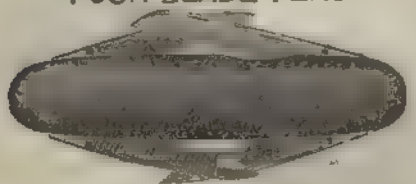
Senator Pattern; Length 3 inches; German Silver Bolsters; One Large Spear, One Small Pen and One File Blade; Full Polished; Brass Lining, Milled; No Shield; Weight per Dozen 14 ozs. Per Dozen

No. C3028P—Pearl Handle..... $19.00

Length 3½ inches; Uncapped; One Large Spear, One Small Pen and One File Blade; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 14 ozs. Per Dozen

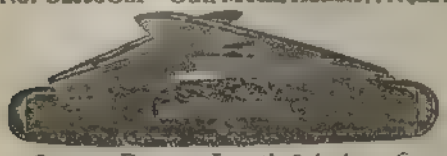
No. C3017P-Pearl Handle..... $34.00

FOUR BLADE PENS



Lobster Pattern; Length 2⅞ inches; Uncapped; One Small Congress, Two Small Pens and One File Blade; Full Polished; Unlined; No Shield; Weight per Dozen 8 ozs. Per Dozen

No. C4095GM -Gun Metal Handle....$32.00



Senator Pattern; Length 3 inches; German Silver Tipped; One Large Spear, Two Small Pens and One File Blade; Half Polished; Brass Lining; German Silver Shield; Weight per Dozen 14 ozs. Per Dozen

No. C4081P—Pearl Handle. $22.00

All Above, Half Dozen in a Box.

FOUR BLADE PENS

Congress Pattern; Length 3⅛ inches; German Silver Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade; Full Polished; Brass Lining, Milled; No Shield; Weight per Dozen 16 ozs. Per Dozen

No.C4017P-Pearl Handle..... $21 00

Senator Pattern; Length 3¼ inches; Uncapped; One Large Spear, Two Small Pens and One File Blade; Full Polished, German Silver Lining, Milled; German Silver Shield; Weight per Dozen 16 ozs. Per Dozen

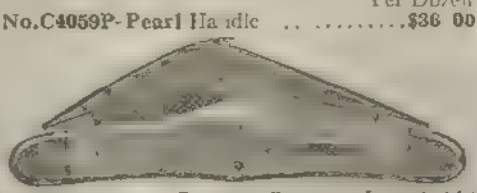
No. C4013P—Pearl Handle..... $42.00

Congress Pattern; Length 2¾ inches, Uncapped; One Small Congress, Two Small Pens and One File Blade; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 8 ozs. Per Dozen

No. C4002P—Pearl Handle.... . $22.00

Lobster Pattern, Length 3 inches; Uncapped; One Small Congress, Two Small Pens and One File Blade; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 12 ozs. Per Dozen

No.C4059P-Pearl Handle $36 00



Small Center Congress Pattern; Length 3¼ inches; German Silver Bolsters; One Large Congress, Two Small Pens and One File Blade; Half Polished; Brass Lining; German Silver Shield; Weight per Dozen 14 ozs. Per Dozen

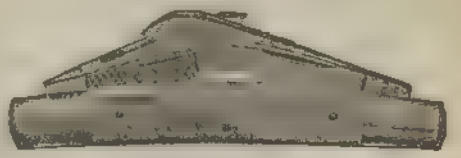
No. C4080P—Pearl Handle..... $22 00

Anglo Saxon Pattern; Length 3¼ inches; German Silver Flush Bolsters; One Large Spear, Two Small Pens and One File Blade; Half Polished; Brass Lining; No Shield; Weight per Dozen 16 ozs. Per Dozen

No. C4078P Pearl Handle..... $22.00

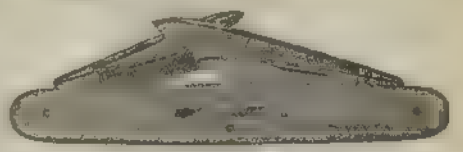
All Above, Half Dozen in a Box.

FOUR BLADE PENS



Congress Pattern; Length 3 inches; German Silver Bolsters; One Large Congress, Two Small Pens and One File Blade; Half Polished; Brass Lining; No Shield; Wt. per Dozen 16 ozs. Per Dozen

No. C4092P—Pearl Handle..... $16.00



Senator Pattern; Length 3½ inches; Uncapped; One Large Spear, Two Small Pens and One File Blade; Full Polished; German Silver Lining, Milled; German Silver Shield; Weight per Dozen 12 ozs. Per Dozen

No. C4006P—Pearl Handle $35.00

Congress Pattern; Length 3¼ inches; German Silver Scored Bolsters; One Large Congress, Two Small Pens and One File Blade; Half Polished Brass Lining, German Silver Shield; Wt. per Doz. 16 ozs. Per Dozen

No. C4077P—Pearl Handle $22 00

COMBINATION

Anglo-Saxon Pattern; Length 3½ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; One Cork Screw; Full Polished German Silver Lining; No Shield; Wt. per Dozen 20 ozs. Per Dozen

No. C3080ST—Patent Stag Handle....$19.00

No. C3080P —Pearl Handle..... 30 00

Length 3⅝ inches; German Silver Bolster; One Large Spatula and One Small Pen Blade; One Cork Screw; Full Polished; Brass Lining Milled; German Silver Shield; Weight per Dozen 18 ozs. Per Dozen

No. C3039P--Pearl Handle..... $36.00

All Above, Half Dozen in a Box.

POCKET KNIVES

*J. KOESTER & SONS, GERMANY

High Grade Imported; English Steel Blades, Ground to a Fine Cutting Edge; Perfectly Fitted and Beautifully Finished by Skilled Workmen. Free from Flaws and Imperfections. FULLY GUARANTEED.

COMBINATION

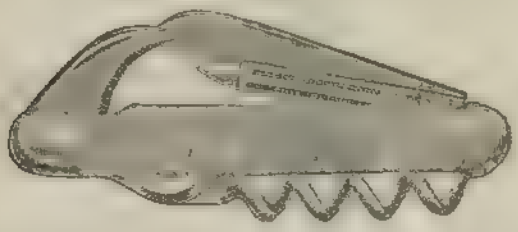
Wharncliffe Pattern; Length 3 inches; Uncapped; One Large Spear Two Small Pens and One File Blade; One Glove Fastener and One Cork Screw; Full Polished; German Silver Lining, Milled; No Shield; Weight per Dozen 14 ozs.

Per Dozen

No. C5003GST –Genuine Stag Handle..... **$35 00**

No. C5003P –Pearl Handle.. . .. . **50 00**

Half Dozen in a Box

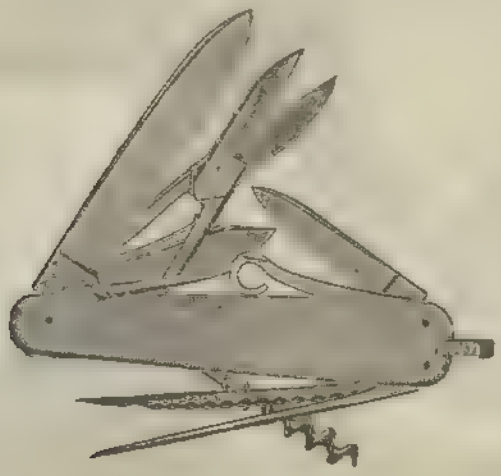


Champagne Pattern; Length 3⅝ inches; German Silver Bolsters; One Large Congress and One File Blade; One Cork Screw and One Wire Cutter; Full Polished; Brass Lining; No Shield; Weight per Dozen 1⅝ lbs.

Per Dozen

No. C4058P—Pearl Handle... .... **$44 00**

Half Dozen in a Box



Lobster Pattern; Length 3⅛ inches; Uncapped; One Large Spear and Two Small Pen Blades; One Nail File, One Glove Fastener, One Pair Scissors, One Cork Screw, One Long Pricking Needle, One Short Pricking Punch; Full Polished; One German Silver Ear Spoon and One Tortoise Shell Tooth Pick; German Silver Lining, Milled; No Shield; Weight per Dozen 2⅛ lbs.

Per Dozen

No. C5005P—Pearl Handle... . ..... **$100.00**

Half Dozen in a Box

POCKET KNIVES

*G. W. PUTNAM & CO., GERMANY

Imported; Good Quality German Cast Steel; Well Ground and Nicely Finished; Made for Service. NOT GUARANTEED.

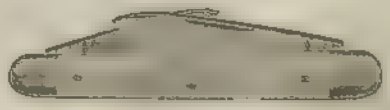
TWO BLADE PENS

Congress Pattern; Length 2⅝ inches; German Silver Bolsters; One Large Congress and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 8 ozs.

Per Dozen

No. P3133P—Pearl Handle.....**$8.50**

Half Dozen in a Box

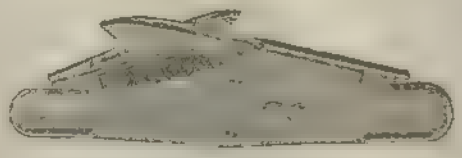


Sleeve Board Pattern; Length 2⅝ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 8 ozs.

Per Dozen

No. P2132P—Pearl Handle.....**$7.50**

Half Dozen in a Box



Balloon Pattern; Length 3⅛ inches; German Silver Bolsters; One Large Spear, One Small Pen and One File Blade; Full Polished Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.

Per Dozen

No. P3113P Pearl Handle ... . **.$15 00**

Half Dozen in a Box

Premium Stock Pattern; Length 3¾ inches; German Silver Bolsters; One Large Clip, One Small Sheep Foot and One Small Spaying Blade; Half Polished; Brass Lining; German Silver Shield; Weight per Dozen 2 lbs.

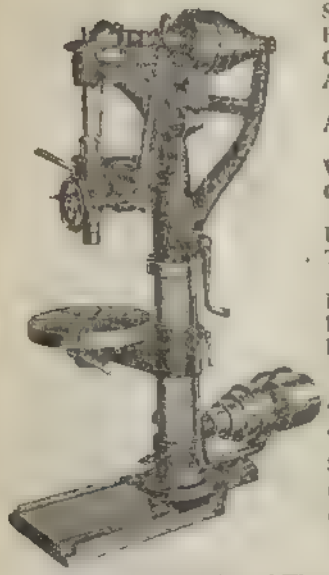
Per Dozen

No. P3102P—Pearl Handle **$22 00**

Half Dozen in a Box

†PEDESTAL DRILLS

BUFFALO



Split Bearings, Adjustable for Wear
Ball Bearing, Spindle Bearing
Graduated Spindle.
Adjustable Lever Handle; can be Used on Either Side
Automatic Feed Stop; Independent of Lever Feed.
Wheel Feed Worm Runs in Oil.
Cut Back Gears, Extra Heavy, Thrown in by Movement of Hand Lever.
Head Frame Casting, One Piece
Table Large Turned, Operating Screw on Ball Thrust
Height of Drill, 74 inches
Diameter of Pedestal, 5½ inches.
Diameter of Table, 15½ inches.
Diameter [illegible] inches; Above Sleeve, ¼ inches
Travel of Spindle, [illegible]
Tight and Loose Pulley, 8x3 inches
Speed, 300 R. P. M.
Crown Gear, Diameter 5⅝ inches
Cone Pulley, Largest Diameter, 9 inches, Smallest Diameter, 4 inches; Width Steps, 2⅛ inches

Has Eight Speeds and Three Power Feeds, Together with Hand and Lever Feeds; Changed from Power Drive to Back Geared Drive by Engaging Small Knurled Knob in the Top Back Gear, Throwing in Back Gears with Hand Lever and Locking into Place with Screw Provided. An Adjustable Automatic Trip is Provided to Throw Out Power Automatically when Piece Has Been Drilled to the Required Depth.

		Each
†No. 1—20 inch Plain Lever Feed; Weight 920 lbs.	$170 00	85.00
†No. 2—20 inch Lever and Wheel Feed; Weight 940 lbs.	190 00	95.00
†No. 3—20 inch Lever and Wheel Feed; with Automatic Feed and Stop; Weight [illegible] lbs.	220 00	110.00
†No. 4 [illegible] Back Geared with Wheel Feed; Weight 940 lbs.	230 00	115.00
†No. 5 [illegible] Back Geared; with Wheel and Automatic Feed and Stop, Wt. 960 lbs.	260 00	130.00

Regularly Furnished for No. 3 Taper Drills; Can be Furnished for No. 4 Taper Drills when so Specified.

One in a Crate

Complete with Motor

Gear Drive, which Can be Slipped Out of Gear for Hand Operation; Sure-grip Chuck Locks or Releases Tool by a Half Turn. All Gears Machine Cut. Spindle Can be Raised and Lowered by Four Adjusting Screws, Saving Time on Small Holes in Light Work, for Larger Work the Automatic Feed is Used. Gear Guard and Wheel Holder Furnished with Each Drill.

Chuck is Bored for ½ inch Straight Shank Drills. When so Specified Can be Furnished for 41/64 or ⅝ inch.

Height 78 inches; Run of Feed 8 inches; Run of Table 20 inches; Drills to Center of 24 inch Circle.

With 110 or 220 Volt Direct Current Motor

	Each
†No. 124CE¼DC—¼ H. P. Motor; Capacity 1½ inch in Steel. Weight 660 lbs.	$126 00 252 00

	Each
†No. 124CE½DC—½ H. P. Motor; Capacity 1½ inch in Steel; Weight 670 lbs.	$170 00 340 00

With Single Phase 60 Cycle Motor

	Each
†No. 124CE¼AC—¼ H. P. Motor; Capacity 1½ inch in Steel; Weight 660 lbs.	$136 00 272 00
†No. 124CE½AC—½ H. P. Motor; Capacity 1½ inch in Steel; Weight 670 lbs.	$190 00 380 00

Slotted Base Furnished if so Specified.

One in a Crate

†PEDESTAL DRILLS

BUFFALO

Machine Cut Gears; Ball Bearing Spindle; "Sure-Grip" Chuck which Locks or Releases Drill with a Half Turn; Automatic Feed Adjustable to Four Speeds. Multi-Compound Lever Feed is Obtained by Planetary Gears and the Rack on Feed Head Operated by Four Arm Lever. A Slight Pressure on the Lever Forces the Drill Through the Work at Maximum Speed.

Sliding Collars One Sliding Collar is Arranged at Feed Head for Changing from Lever to Automatic Feed or Back. The Other is at Lower End of Fly Wheel Shaft, for Change from Slow to Fast Speed, or Back. **Either Change is Made in a Second—the Collar Will Slide Regardless of Position of Key, and Seat Itself Automatically.**

Height 78 inches; Run of Feed 8 inches; Run of Table 20 inches; 8x3 inch Tight and Loose Pulley; Drills to Center of 24-inch Circle.

Wheel Holder Furnished with Each Drill. Slotted Base Will be Furnished When so Specified.

Capacity 1½ inch Holes in Steel

		Each
†No. 124C—For Hand Operation; Weight 610 lbs.	$124.00	62 00
†No. 124CA—For Hand and Power Operation; Weight 630 lbs.	132.00	66.00

Spindle Bored for ½ inch Straight Shank Drills. When so Specified Will be Furnished for 41/64 inch or for No. 2 Taper Drills.

One in a Crate

†POST DRILLS

BUFFALO

Height—71 inches.
Run of Feed—7¾ inches.
Run of Table—14 inches.
Capacity—Holes up to 1½ inches.
Drills to Center of 22 inch Circle.
3x8 inch Tight and Loose Pulley.

With Double Back Gears which Can be Changed from a Fast to a Slow Speed and Vice Versa by Simply Sliding the Collar. The Combination Automatic Self-Feed and Lever-Feed Practically Eliminates All Labor by its Method of Raising the Drill-Bit out of the Drilled Hole and Replacing it in Position for Drilling the Next Hole. This Instantaneous Method of Raising the Drill Bit Applies to Both the Self-Feed and the Lever-Feed, Even Though They Are Independent of Each Other.

With the Adjustable Lever, the Operator is Permitted to Adjust it to the Requirements of His Work. The Change from Self-Feed to Lever-Feed and From Lever-Feed to Self-Feed is Made in an Instant.

	Each
†No. 221—For Hand Operation; Weight 480 lbs.	$50 00 100 00
†No. 221A—For Hand and Power Operation; Weight 480 lbs.	54 00 108 00

One in a Crate

Items Marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Buffalo, N. Y.

✣POST DRILLS

BUFFALO

Automatic Feed is Adjustable to Four Speeds. Spindle Has Two Speeds. Machine Cut Gears, Capstan Four Arm Lever Hand Feed; "Sure Grip" Chuck Locking or Releasing Drill with a Half Turn of Chuck.

Multi-Compound Lever Feed; a 1 inch Hole can be Drilled with this Lever. This Feature is obtained by the Strong and Simple Rack on Feed Head, Operated by the Four-arm Lever. By Applying a Light Pressure on the Latter, the Bit is Forced Through the Metal with Maximum Speed, Resulting in a Great Saving of Time.

Sliding Collars: One Sliding Collar is Arranged at Feed Head for Changing from Lever to Automatic Feed or Back. The Other is at Lower End of Fly Wheel Shaft, for Change from Slow to Fast Speed or Back. The Collar Will Slide Regardless of Position of Key, and Seat Itself Automatically.

The Planetary Gears on the Automatic Feed are the Most Modern Reduction Gearing Known, Simpler Than the Customary Worm or Screw.

Wheel Guard and Gear Guard Included with Each Drill.

Height 72 inches, Capacity up to 1½ inch Holes; Drills to Center of 24 inch Circle; Run of Feed 7½ inches; Run of Table 20 inches; 8x3 Tight and Loose Pulley.

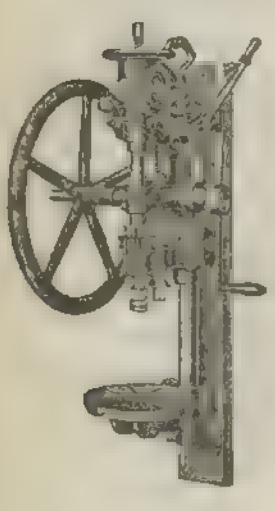
	Each
✣ No. 124—For Hand Operation; Weight 370 lbs.....	$94.00 47.00
✣ No. 124A—For Hand and Power Operation; Weight 390 lbs..	51 00 102 00

Height 69 inches; Capacity up to 1½ inch Holes; Drills to Center of 21 inch Circle; Run of Feed 7¼ inches; Run of Table 17 inches; 8 inch Power Tight and Loose Pulley.

	Each
✣ No. 121—For Hand Operation; Weight 310 lbs.....	$100.00 50 00
✣ No. 121A—For Hand and Power Operation; Weight 330 lbs..	54 00 108 00

Spindle Bored for ½ inch Straight Shank Drills. When so specified can be Furnished for 41/64 inch or No. 2 Taper Drills.

One in a Crate



Automatic Self Feed and Hand Lever Feed; Will Handle Both Light and Heavy Work with Equal Efficiency. It Has Double Back Gears which Change [illegible] for Fast to Slow Speed. Automatic Self-Feed and Lever Feed Practically Eliminates [illegible] Raising Drill-Bit. Drill-Bit Drops [illegible] Next Hole. This Instantaneous Method of Raising the Drill-Bit Applies to Both the Self-Feed and the Lever-Feed, Even Though They Are Independent of Each Other.

With the Adjustable Lever the Operator is Permitted to Adjust it to the Requirements of His Work. The Change from Self-Feed to Lever Feed and from Lever Feed to Self Feed is Made in an Instant. Fitted with "Sure-Grip" Chuck.

Height 52 inches; Capacity for Holes up to 1½ inches; Drills to Center of 18-inch Circle; Run of Feed 4 inches, Run of Table 10 inches; 8x3 inch Pulley; Weight 260 lbs.

	Each
✣ No. 218—For Hand Operation.....	$60 00 30 00
✣ No. 218A—For Hand and Power Operation.....	68 00 34 00

One in a Crate

POST DRILLS

BUFFALO UPRIGHT; BALL BEARING

The Ball Bearings are Used at the Point of Greatest Friction, viz.: at the Connection of the Fast Running Drill Spindle with the Feed Screw (Not on the Slowly Rotating Feed Mechanism) Reducing the Friction, and Saving one-third of the Power.

All Drills on this Page are furnished with the Buffalo Improved Chuck. Insert the Bit with the Flat of Shank directly in line with the two "O's" stamped in Spindle. Turn the Collar half-way to the left and the Bit is securely locked. The Simplest, Safest Chuck Made. No Set Screw to twist. No Threads to Strip. No Wrench required.

Oil Finished Cast Iron [illegible] ing Wheels, Swing Table and Support, Polished Steel Drill Spindle, Pinion Shafts, Axles and Chucks.

Automatic Self Feed and Hand Feed, with Quick Return of Spindle—No turning back of Feed Wheel after Drilling.

Slotted Swing Table Adjustable Up and Down; Machine Cut Gears, Milled Teeth; All Bearings are Bored and Reamed in the Solid Metal; No Liners being used.

TWO SPEED—Automatic and Multi-Compound Capstan Lever Feed. The Automatic Feed is Adjustable to Four Speeds. [illegible] Sliding Collars, [illegible] at Lower End of Fly Wheel Shaft, for Change from Slow to Fast Speed or Back. [illegible] inches to Center of 21 inch Circle; Takes ½ inch Straight Shank Drills, Diameter of Chuck 2¼ inches; Spindle 1⅝ inch; Diameter of Table 16 inches; Run of Table 20 inches; Run of Feed 7½ inches; Diameter of Feed Wheel 6 inches; Bolted to Plain Oak Upright 45 inches long, 6 inches wide, 1 inch thick; Length over all 72 inches.

	Each
✣ No. 121H—For Hand Power only; without Pulleys; Weight 370 lbs..	$94 00
✣ No. 121P—For Power and Hand; with Tight and Loose Pulleys; Size of Pulleys 8x3 in.; Wt. 390 lbs.	103 00

One in a Crate

TWO SPEED—Automatic and Multi-Compound Capstan Lever Feed. The Automatic Feed is Adjustable to Four Speeds.

[illegible] Sliding Collars, [illegible] at Lower End of Fly Wheel Shaft, for Change from Slow to Fast Speed or Back. [illegible] Drills Holes up to 1¼ inches to Center of Circle; Takes ½ inch Straight Shank Drills, Diameter of Chuck 2¼ inches; Spindle 1⅝ inches; Diameter of Table 16 inches; Run of Table 15 inches; Run of Feed 5½ inches; Bolted to Plain Oak Upright 45 inches long, 6 inches wide, Height over all 63 inches.

	Each
✣ No. 116H—For Hand Power only; without Pulleys; Weight 260 lbs	$66 00
✣ No. 116P—For Power and Hand; with Tight and Loose Pulleys; Size of Pulleys 8x3 inches; Weight 270 lbs...	74 00

One in a Crate

TWO SPEED—Automatic and Capstan Lever Feed.

The Automatic Feed is Adjustable to Three Speeds.

Change accomplished by Sliding Collar at right of Planetary Feed Gears. Change of Speeds obtained by Changing Crank from Front to Rear Gear or Back.

Drills Holes up to 1¼ inches to Center of 16-inch Circle; Takes ½ inch, Straight Shank Bits; Diameter of Chuck 2¼ inches; Diameter of Spindle 1⅝ inches; Diameter of Table 16 inches; Run of Table 14 inches; Run of Feed 5½ inches; Diameter of Fly Wheel 6 inches; Bolted to Plain Oak Upright 38 inches long, 6 inches wide; Length over all 72 inches.

	Each
✣ No. 130H—For Hand Power only; without Pulleys; weight 140 lbs.	$42 00
✣ No. 130P—For Power and Hand. Size of Pulleys 6x2¼ in.; Weight [illegible] lbs	46 00

One in a Crate

POST DRILLS

BUFFALO UPRIGHT; BALL BEARING

The Ball Bearings are Used at the Point of Greatest Friction, viz., at the Connection of the Fast Running Drill Spindle with the Feed Screw, (Not on the Slowly Rotating Feed Mechanism) Reducing the Friction, and Saving one third of the Power.

All Drills on this Page are furnished with the Buffalo Improved Chuck. Insert the Bit with the Flat of Shank directly in line with the two "O's" stamped in Spindle, turn the Collar half way to the left and the Bit is securely locked. The Simplest, Safest Chuck Made. No Set Screw to twist. No Threads to Strip. No Wrench required.

Oil Finished Cast Iron Frame Gearing Wheels, Swing Table and Support; Polished Steel Drill Spindle, Table Post, Shafts, Axles and Chuck.

Automatic Self Feed and Hand Feed, with Quick Return of Spindle—No turning back of Feed Wheel after Drilling.

Steel Swing and Adjustable Table Post, Machine Cut Gears, Milled Teeth, All Bearings are Bored and Reamed in the Solid Metal; No Liners being used.

TWO SPEED—Automatic and Multi-Compound Capstan Lever Feed.

The Automatic Feed is Adjustable to Three Speeds. Change is quickly accomplished by **sliding Collar** at Feed Head, changing from Lever to Automatic Feed or back. The two speeds obtained by inserting crank in Hub of large or small Gear. The Crank turns forward on both speeds, the Drill being provided with Triple Drive Gears.

Drills Holes up to 1¼ inches to center of 18-inch circle; Takes Drills with ½-inch Straight Shanks; Diameter of Spindle 1⅛ inches; Diameter of Table 16 inches; Run of Table 14 inches; Run of Feed 5½ inches; Diameter of Fly Wheel 8 inches; Bolted to Plain Oak Upright 45 inches long, 6 inches wide Length over all 70 inches.

	Each
✣ No. 126H—For Hand Power only; without Pulleys, Weight 180 lbs.	$57 00
✣ No. 126P—For Power and Hand; with Pulleys; Size of Pulleys 8x3 inches; Weight 200 lbs.	64.00

One in a Crate

TWO SPEED—Hand and Automatic Feed. The Automatic Feed is Speeded Three to One.

Drills Holes up to 1¼ inches to the Center of a 17½ inch Circle; Takes Drills with ½ inch Straight Shank; Diameter of Spindle 1⅛ inches; Size of Table 10x10 inches; Diameter of Table Post 1¼ inches; Run of Table 13 inches; Run of Feed 3¼ inches; Diameter of Feed Wheel 5 inches; Diameter of Fly Wheel 13 inches; Length of Crank 14 inches; Bolted to Plain Oak Upright 42x5 inches; Length over all 38 inches.

	Each
No. 155H—Hand Power only; Weight 115 lbs.	**$27 00**
No. 155P—For Power and Hand; Diameter of Pulleys 6 inches; Weight 125 lbs.	**33.00**

One in a Crate

Hand and Automatic Feed.

The Automatic Feed is Speeded Three to One.

Drills Holes up to 1½ inches to the Center of a 14-inch Circle. Takes Drills with ½ inch Straight Shank; Diameter of Spindle 1⅛ inches; Diameter of Table 7 inches; Run of Table 12 inches; Run of Feed 3 inches; Diameter of Feed Wheel 5 inches; Diameter of Balance Wheel 13 inches; Length of Crank 14 inches; Diameter of Table Post 1½ inches; Bolted to Plain Oak Upright 42x5 inches; Length over all 38 inches.

	Each
No. 152—For Hand Power only; Weight 80 lbs.	**$21 00**

One in a Crate

POST DRILLS

BUFFALO UPRIGHT; BALL BEARING

Oil Finished Cast Iron Frame, Gearing Wheels, Swing Table and Support; Polished Steel Drill Spindle, Table Post, Shafts, Axles and Chuck, Adjustable Steel Swing and Handle, Crank, Hardwood Grip; Automatic Self Feed and Hand Feed, with Quick Return Lever for Quickly Withdrawing Drill Bit from Work.

A Steel Pin Spring Clutch is Used in Connecting Lever with the Automatic Feed, Avoiding the Use of a Lock Nut to Take up the Thrust.

Slotted Swing Table Adjustable Up and Down; Machined Gears, Milled Teeth; All Bearings are Bored and Reamed in the Solid Metal; Ball Bearings; Buffalo Improved Chuck.

Hand and Automatic Feed Drill; The Automatic Feed Speeded Three to One; with Buffalo Improved Chuck; Drills Holes up to 1 inch to center of 12 inch Circle; Takes Drills with ½ inch Straight Shank; Diameter of Spindle 1⅛ inches; Diameter of Table Post 1½ inches; Diameter of Table 6 inches; Run of Table 9 inches; Run of Feed 3 inches; Length of Crank 10 inches; Diameter of Feed Wheel 6 inches; Size of Back Board 33x4½ inches;

	Each
No. 151H—Weight 65 lbs.	$17.00

One in a Crate

Hand and Automatic Feed Drill; Automatic Feed Speeded Three to One, Drills Holes up to 1 inch to the Center of a 12 inch Circle, Takes Drills with ½ inch Straight Shank, Diameter of Spindle 1⅛ inches, Diameter of Table Post 1½ inches, Diameter of Table 6 inches; Run of Table 9 inches; Run of Feed 3 inches; Length of Crank 10 inches, Diameter of Balance Wheel 3 inches, Diameter of Feed Wheels 6 inches, Size of Back Board 33x4½ inches.

	Each
No. 146—Weight 63 lbs.	$15.00

One in a Crate

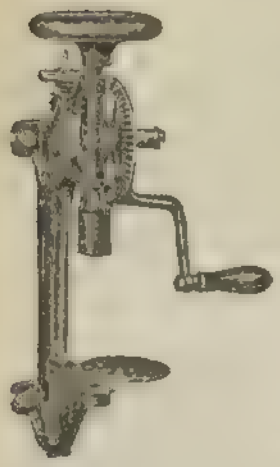
Hand Feed Drill, without Fly Wheel, but with Buffalo Improved Chuck; Drills Holes up to ¾ inch to the Center of a 12 inches Circle; Takes Drills with ½ inch Straight Shank; Diameter of Spindle 1⅛ inches; Diameter of Table Post 1½ inches; Diameter of Table 6 inches; Run of Table 9 inches; Run of Feed 3 inches; Length of Crank 10 inches; Diameter of Feed Wheel 6 inches; Size of Back Board 33x4½ inches.

	Each
No. 145—Weight 58 lbs.	$13 00

One in a Crate

POST DRILLS

LUTHER



Luther Post Drills have the features of [illegible] The frame is built [illegible]. It may be bolted or screwed to a post or an upright and is Bored for Round Shank Drills.

The work is held by a handscrew at the top and can be adjusted to suit the quality of the work in hand. When a hole is to be bored in any piece of work, it is mighty inconvenient to have to take the work to a blacksmith or repair shop.

These drills are made for ordinary work and could not be expected to do work over ½ inch in diameter.

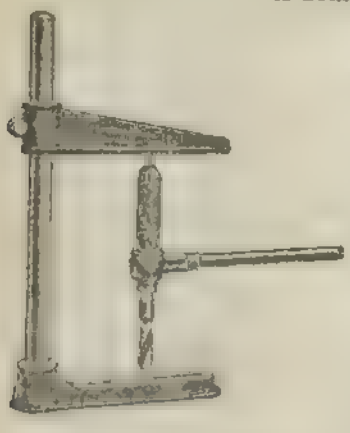
	Each
No. 1037—For Round Shank Drills; Weight packed 15 lbs.....	$5.00

One in a Box.

DRILLING POST OR "OLD MAN"

KEYSTONE

For Use with Ratchet Drills; Ratchet Drills not included in Prices of Drilling Posts.



Much time and labor can be saved [illegible]; Drills are [illegible] Brass or [illegible] ing Ratchet for various classes of work.

Foot and Arm made of best quality Malleable Iron; Post of Solid Steel; Top and Bottom of Foot Planed True and slotted for bolting down.

Nos.	0	1	2
[illegible]	1	20	28
[illegible] inches	8	10	[illegible]
Weight, lbs.	11	14	[illegible]
Each	$10 00	13 00	15 00

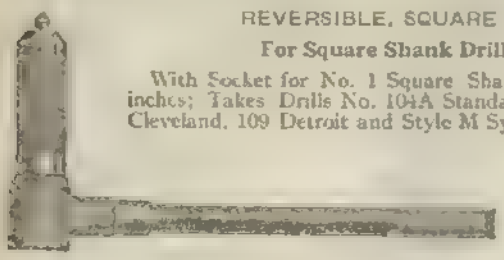
Loose

RATCHET DRILLS

For Drilling Iron or Steel by Hand; Used by Bridge Builders, Boiler Makers, Structural Iron Workers, etc.

KEYSTONE

Solid Steel Polished; Drop Forged Head and Gear; Cold Drawn Steel Tubular Handle, with [illegible] Direct Pawl and Coil Spring. The Reverse Motion is Obtained by Withdrawing and Taking a Half-turn on Knob at End of Handle. No Drift Required, as Feed Nut Discharges Drill or Sleeve Automatically on Being Turned Down. Nothing to Break or Get Out of Order, the Ratchet Being Entirely Enclosed.



REVERSIBLE, SQUARE SLEEVE

For Square Shank Drills Only

With Socket for No. 1 Square Shank Drills, 5/8x3/8x1 1/2 inches; Takes Drills No. 104A Standard, 109E Morse, 111 Cleveland, 109 Detroit and Style M Syracuse.

Nos.	Length Handle	Length [illegible]	Weight [illegible]	Each
1	10 inches	[illegible]	[illegible] lbs	$12 00
2	14 inches	[illegible]	[illegible]	14 00
3	16 inches	7 1/8 inches	7 1/8 lbs	15.00

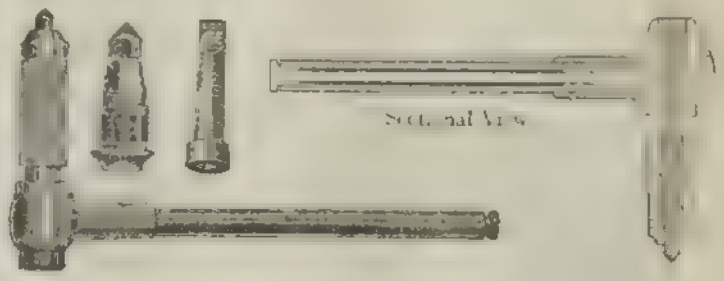
One in a Box

RATCHET DRILLS

For Drilling Iron or Steel by Hand; Used by Bridge Builders, Boiler Makers, Structural Iron Workers, etc.

KEYSTONE

Solid Steel Polished; Drop Forged Head and Gear; Cold Drawn Steel Tubular Handle, with Steel Rod Running Through It, on which is a Direct Pawl and Coil Spring. The Reverse Motion is Obtained by With[illegible] drawing and taking a Half-turn on Knob at End of Handle. No Drift Required, as Feed Nut Discharges Drill or Sleeve Automatically on being Turned Down. Nothing to Break or Get Out of Order, the Ratchet Being Entirely [illegible].



REVERSIBLE COMBINATION

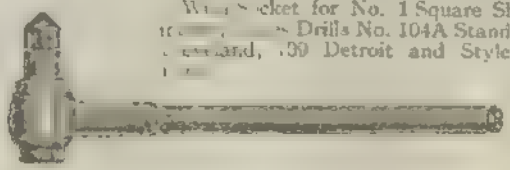
Combination Consists of Socket for Regular Taper Shank Drills, a Sleeve for Square Shank Drills, and a Short Boiler Head or Socket for Square Shank Drills. Sockets are Interchangeable.

Nos.	Length Handle	Length Regular Head	Takes Taper Drills	Weight Each	Each
51	10 inches	3 5/8 inches	5/8 to 29-32 in.	6 lbs ...	$17.00
	Takes Taper Sleeve No. 1—3/8 to 9-16 inch....				
52	14 inches	4 1/2 inches	15-16 to 1 1/4in.	9 1/2 lbs...	19.00
	Takes Taper Sleeve No. 2—19-32 to 29 32 inch				
53	16 inches	4 1/2 inches	15-16 to 1 1/4 ins.	11 lbs....	21 00
	Takes Taper Sleeve No. 2—19-32 to 29-32 in..				

One in a Box

REVERSIBLE BOILER, SQUARE SLEEVE

For Square Shank Drills Only



With Socket for No. 1 Square Shank Drills, 5/8x3/8x1 1/2 [illegible] Drills No. 104A Standard, 109E Morse, 111 [illegible]land, 109 Detroit and Style M Syracuse; Short [illegible]

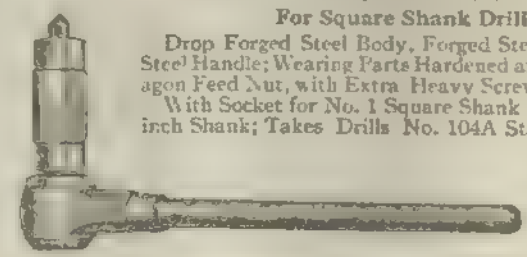
Nos.	Length Handle	Length Head	Weight Each	Each
31	10 inches	3 5/8 inches	3 lbs.....	$12.00
32	14 inches	4 1/8 inches	5 lbs.....	14 00
33	16 inches	4 5/8 inches	9 lbs	15.00

One in a Box

MONARCH

SINGLE ACTING, SQUARE SLEEVE RATCHET

For Square Shank Drills Only



Drop Forged Steel Body, Forged Steel Sockets; Solid Back Steel Handle; Wearing Parts Hardened and Durable; Has Hexagon Feed Nut, with Extra Heavy Screw.

With Socket for No. 1 Square Shank Drills with 5/8x3/8x1 1/2 inch Shank; Takes Drills No. 104A Standard, 109E Morse 111 Cleveland, 109 Detroit and Style M Syracuse.

	Each
No. 10—10 in. Handle, 5 5/8 in. Head, Wt. 3 1/4 lbs	$12 00
No. X20—12 in. Handle, [illegible]	14 00
No. 30—15 in. Handle; [illegible]	13 50

One in a Package

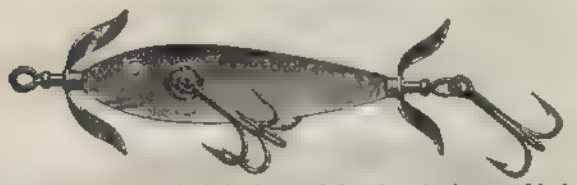
CASTING MINNOWS

NEVERFAIL

Red cedar, round bodies, finished with a specially prepared elastic enamel. All metal parts nickel plated. Detachable hooks, glass eyes. Length 3⅝ inches.

No. 31683⅝—White, red head and gill streaks	Per dozen	$7.00
No. 31713⅝—White belly, blended green back	Per dozen	7.00
No. 31733⅝—Rainbow finish	Per dozen	7.00
No. 31743⅝—Yellow belly, red and green back	Per dozen	7.00
No. 31803⅝—White all over	Per dozen	7.00
No. 31813⅝—Red all over	Per dozen	7.00
No. 31853⅝—White belly, fancy green back	Per dozen	7.00

Twelfth Dozen in a Box

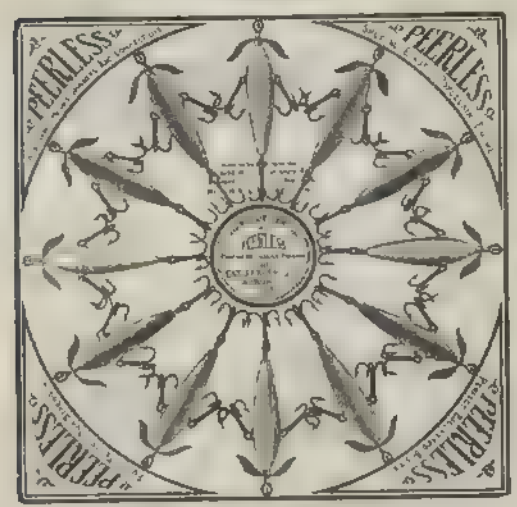


Same as above, only 3 inch bodies and fitted with three treble hooks hooks.

No. 31683—White, with red head and gill streaks	Per dozen	$6.00
No. 31713—White belly, blended green back	Per dozen	6.00
No. 31733—Rainbow finish	Per dozen	6.00
No. 31743—Yellow belly, red and green back	Per dozen	6.00
No. 31803—White all over	Per dozen	6.00
No. 31813—Red all over	Per dozen	6.00
No. 31853—White belly, fancy green back	Per dozen	6.00

Twelfth Dozen in a Box

PEERLESS



Coated with special elastic indestructible waterproof porcelain enamel and mounted with three nickel plated detachable treble hooks, spinners and connections. Each assortment contains four each of the following minnows, viz.: White belly, green back; white belly, red back, and white enamel all over. Mounted on fancy display card, 12 x 12 inches.

No. 41—Assortment ..... Each $2.00

One Assortment in a Box

MOONLIGHT

A surface bait, especially designed for night fishing. It is good for large and small mouth bass, pickerel and muscallonge. Made of red cedar, fitted with brass and nickel trimmings. Treated with a special preparation which makes it luminous at night. Length of body 3⅝ inches. Two treble hooks on bottom and one at tail.

No. 1—White all over ..... Per dozen $9.00

Twelfth Dozen in a Box

RUSH TANGO

Has all the lifelike swimming motions of a minnow in action. It darts and dives in various directions, always wiggling like a fast swimming minnow. Floats when at rest.

No. 2 Junior—White body with red head	Per dozen	$9.00
No. 4 Junior—White body, red and green mottled back	Per dozen	9.00
No. 5 Junior—Yellow body with red head	Per dozen	9.00

Twelfth Dozen in a Box

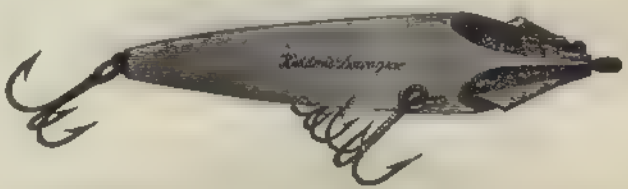
DOWAGIAC CHUB

A very lifelike bait in looks and action. Always floats when at rest, does not revolve and is practically weedless. Has a bright removable and reversible wiggler or mouth piece, which allows bait to be used for surface splatter or near surface wobbler.

No. 66—Natural chub	Per dozen	$13.60
No. 67—White body with red head	Per dozen	13.60

Twelfth Dozen in a Box

DOWAGIAC



Generally used in deep water, though it is used effectively in shallows, too. It's action is very lifelike, darting to and fro like a frightened minnow. Floats when at rest. Length 4⅛ in.

No. 1600S—White body, red and green spotted	Per dozen	$13.60
No. 1602—White body with red head	Per dozen	13.60
No. 1606—Yellow body, red and green spotted	Per dozen	13.60

Twelfth Dozen in a Box

CASTING MINNOWS

DOWAGIAC

A surface minnow, designed to handle large as well as small fish. red cedar, oval minnow shape. Length of body 3½ inches. Fitted with two spinners, and one Dowagiac design treble hooks on bottom and one at tail, glass eyes. Dowagiac baits always stay right side up in the water.

No. 300—Fancy back finish.....Per dozen $13.60
No. 301—Rainbow colors.....Per dozen 13.60
No. 302—White, red and slate colors.....Per dozen 13.60

Twelfth Dozen in a Box

The original Dowagiac surface casting or skittering bait, without revolving parts. Semi-weedless. Length of body 4 inches. Fitted with two treble hooks on bottom and one at tail.

No. 200SW—White body, with nickeled band and blue snout. Per dozen $13.60
No. 200SF—Green and black frog color body, nickeled band, green snout .....Per dozen 13.60
No. 200SL—White body, with nickeled band and red snout Luminous body for night fishing.....Per dozen 13.60

Twelfth Dozen in a Box

Made from best selected red cedar, oval minnow shape, finished with specially prepared flexible enamel. All metal parts nickel plated. Fitted with two spinners and five Dowagiac design treble hooks. Sinks slowly. Length of body 3¾ inches. Glass eyes.

No. 150—Fancy back finish.....Per dozen $13.60
No. 151—Rainbow finish.....Per dozen 13.60
No. 152—White finish.....Per dozen 13.60
No. 154—Red finish.....Per dozen 13.60
No. 157—Yellow belly, Sienna back finish.....Per dozen 13.60
No. 159A—Yellow Perch finish.....Per dozen 13.60
No. 159B—Frog colors.....Per dozen 13.60

Twelfth Dozen in a Box

Same as No. 150 Series, only length of body is 2¾ inches and is fitted with three Dowagiac design treble hooks.

No. 100—Fancy back finish.....Per dozen $12.00
No. 101—Rainbow finish.....Per dozen 12.00
No. 104—Red finish.....Per dozen 12.00
No. 102—White finish.....Per dozen 12.00
No. 107—Yellow belly, Sienna back finish.....Per dozen 12.00
No. 109A—Yellow Perch finish.....Per dozen 12.00
No. 109B—Frog colors.....Per dozen 12.00

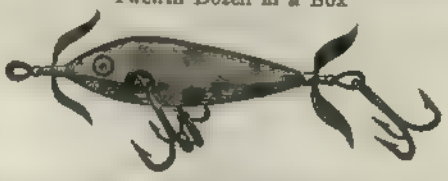
Twelfth Dozen in a Box

DOWAGIAC

A new design shape, with five flat surfaces and side hooks mounted on a ridge, with body sloping away, leaving the hooks cleared in the best possible position for efficiency. Length of body 3¼ inches. Glass eyes. Sinks slowly

No. 00—White body, red and green spots.....Per dozen $13.60
No. 001—Yellow body, red, green and black spots.....Per dozen 13.60
No. 002—Red body, with black spots.....Per dozen 13.60

Twelfth Dozen in a Box



Same as No. 00 Series, only length of body is 3 inches and is fitted with three Dowagiac design treble hooks.

No. 0—White body, red and green spots.....Per dozen $12.00
No. 01—Yellow body, red, green and black spots.....Per dozen 12.00
No. 02—Red body, with black spots.....Per dozen 12.00

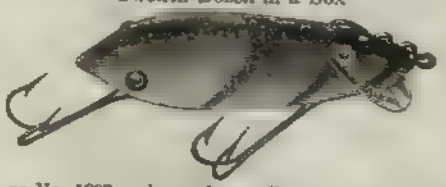
Twelfth Dozen in a Box

Painted in close resemblance to a fresh water crab or crawfish, floats when not in motion, dives under water when retrieved, the movement being a pronounced wiggle. Length 3¾ inches.

Crab Wiggler

No. 1802—White body with red head.....Per dozen $14.40
No. 1805—Yellow body with red and green spots and green back.....Per dozen 14.40
No. 1809C—Imitation crab.....Per dozen 14.40

Twelfth Dozen in a Box

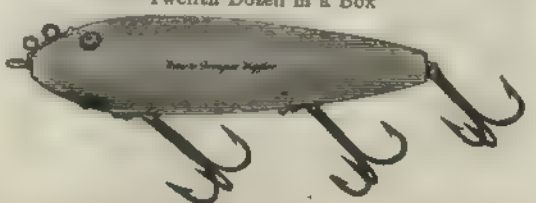


Same as No. 1802 series, only smaller pattern. Length 3 in.

Baby Crab Wiggler

No. 1900—White body, red and green spotted.....Per dozen $14.40
No. 1902—White body with red head.....Per dozen 14.40
No. 1909C—Imitation crab.....Per dozen 14.40

Twelfth Dozen in a Box



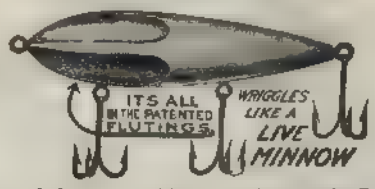
Deadly lures for any depth of water, but specially suited for inshore work, in the shallows near weed beds and reeds. Flouts when at rest, but darts and dives when reeled in, yet stays near the surface. Length 4 in.

No. 1700S—White body, red and green spotted.....Per dozen $13.60
No. 1702—White body with red head.....Per dozen 13.60
No. 1709B—Imitation frog.....Per dozen 13.60

Twelfth Dozen in a Box

CASTING MINNOWS AND BAITS

WILSON FLUTED WOBBLER



This bait is one of the finest killers ever invented. It is an entirely original conception and has met with enthusiastic praise by every fisherman who has tried it. The bait is four and one-half inches long, and is beautifully white enameled with two rich deep red flutings on the under side and two white flutings on the top. Fitted with two treble hooks on bottom and one at tail.

No. 11.....Per dozen $12.00

Twelfth Dozen in a Box

FOSS BAITS

Little Egypt

This bait for general casting or trolling. To be used with Pork Rind Strip. O'Shaughnessy hook and nickel plated spinner. More weedless than many of the so-called weedless hooks as the hook rides upright, passing over weeds and other obstructions.

Little Egypt.....Per dozen $12.00

Twelfth Dozen in a Box

The Skidder

Same style bait as Little Egypt but lighter for shallow water fishing

Skidder.....Per dozen $12.00

Twelfth Dozen in a Box

Oriental Wiggler

Solid pork rind tail minnow, color white, fitted with 2/0 O'Shaughnessy hand forged imported hook. Weight ⅛ oz

Oriental Wiggler.....Per dozen $18.00

Twelfth Dozen in a Box

PORK RIND

These pork rind strips are made especially for the Foss lures but can be used on other baits as well. They are cut thin and flexible, just the right size. 12 strips in a jar.

Pork Rind.....Per dozen jars $4.00

One Dozen in a Carton

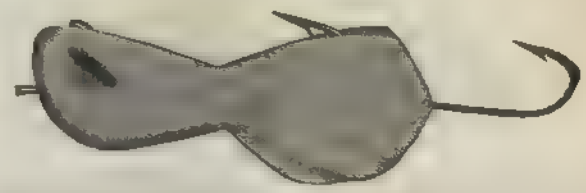
VACUUM BASS BAITS

This is a new design bait, made of selected stock with eight coats of white enamel, making it hard, durable and waterproof. Can be used at daytime, or at night as a moonlight bait. Brass metal parts nickel plated. Three treble hooks.

No. 2.....Per dozen $12.00

Twelfth Dozen in a Tin Box

JAMISON'S COAXER



Bass size, white cork body, red wings, weedless front hook and extra rear trailing hook, assorted feathers. A good killer.

No. 8.....Per dozen $9.00

Twelfth Dozen in a Box

THE "KENT" FLOATER

Made of selected red cedar, carefully shaped and coated with from eight to twelve coats of special elastic, indestructible, waterproof, porcelain enamel, made from a special formula. Mounted with nickel plated detachable hooks, spinners and connections. Patented detachable hook fastener. Body 2 inches long.

No. 2555—White belly, blended rainbow, frog spots....Per dozen $9.00

Twelfth Dozen in a Carton. One Dozen in a Box

CORK FLOATING MEADOW FROGS

Made of satin cork and ballasted so will float right side up and in the natural position of a swimming frog, viz., with the head slightly above the water.

No. 775—White belly, green back.....Per dozen $6.00

Twelfth Dozen on a Card, One Dozen in a Box

WEEDLESS FROGS

Pure soft rubber. Decorated true to life and very effective for casting among the weeds and lily pads. Best results are obtained by keeping the frog in action.

No. 867.....Per dozen $6.00

Twelfth Dozen on a Card, One Dozen in a Box

FISHING TACKLE

MONOGRAM SPOONS

With patent reversible hinge lug, brass barrel swivels, upper part of blades nickel, lower half copper, concave side painted red, feathered treble hooks.

No. 307—Sizes	6	5	4	3	2	1	1/0	2/0	3/0
Length of spoon, in.	1½	1⅝	1¾	1⅞	1⅞	2¼	2½	2¾	3⅛
Treble hooks, sizes	6	4	1	1/0	2/0	4/0	6/0	7/0	9/0
Per dozen	$3 00	3 00	3 00	3 50	3.50	3 50	4.00	4.00	5 00

Twelfth Dozen on a Card, One Dozen in a Box

STAR SPOONS—SINGLE

Mounted on highly burnished extra strong spring brass wire shafts with a snap loop on each end. Blades spin speedily and close to the shaft. Bright nickel plated hand forged treble hooks, hand filed out points, and heavily feathered with a liberal assortment of fancy water fowl feather. Polished silver and gold convex, red concave.

Lowe

No. 1470—Sizes	6	5	4	3	2	1	1/0	2/0	3/0
Length spoon, in	1½	1¾	1⅞	1⅞	1⅞	2¼	2¼	2¾	3⅛
Treble hooks, sizes	4	3	1	1/0	3/0	4/0	6/0	7/0	10/0
Per dozen	$6 00	6.00	7.20	7 20	9.00	9.00	12.00	12.00	15.00

Half Dozen in a Box

STANDARD FLUTED SPOONS

Brass barrel swivel, nickel plated blades, painted red inside, feathered treble hooks.

No. 110—Sizes	1	2	3	4	4½
Length of spoon, in.	1	1⅛	1⅛	1½	1⅝
Treble hooks, sizes	6	5	4	3	1
Per dozen	$2 00	2.00	2 00	2.00	2.00

No. 110—Sizes	4¾	5	6	7	8
Length of spoon, in.	1⅝	2⅛	2⅛	2⅞	2⅛
Treble hooks, sizes	1/0	2/0	3/0	4/0	5/0
Per dozen	$2.00	2 50	2 50	3.00	3.00

One Dozen in a Box

"WILLOW LEAF" BAITS

Reversible hinge lug, first quality brass barrel swivel, covex side of blade polished nickel, concave side painted red, first quality feathered treble hooks.

No. 1752—Sizes	6	5	4	3
Length of spoon, in.	2½	2⅞	2⅝	2⅞
Treble hooks, sizes	1	1	1/0	3/0
Per dozen	$2.50	2 50	2.50	3 00

One Dozen in a Box

LUCAS BAITS

Highest quality double blued spear point hooks, mounted on music wire, fitted with barrel swivels. Spoons and hooks are easily removed for changing. High-grade feathers used that will not come out. Furnished in either nickel or copper finish.

Double

No. 10—Sizes	4	5	6
Length of spoon, inches	1⅝	1¾	1⅞
Double hooks, sizes	6/0	6/0	7/0
Per dozen	$12.00	15 00	15.00

Twelfth Dozen on a Card, Half Dozen in a Box

Same general construction as No. 10, only with single spoon furnished in nickel, copper and oreide (gold plated blades) finish. The best spoon hooks made.

Single

No. 20—Sizes	7	8	9
Length of spoon, inches	2¼	2¼	2⅜
Double hooks, sizes	7/0	7/0	7/0
Per dozen	$12.00	12.00	12.00

Twelfth Dozen on a Card, Half Dozen in a Box

SKINNER'S FLUTED SPOONS

Skinner's genuine fluted bait, oval outside nickel plated, inside painted red, feathered treble hooks.

No. 400—Sizes	0	1	2	3	4	4½	4¾
Length of spoon, inches	¾	1	1⅛	1⅝	1⅛	1⅝	1⅝
Per dozen	$4.00	4.00	4.00	4.00	4.00	4.00	4.00

No. 400—Sizes	5	6	7	8	9	12
Length of spoon, inches	2⅛	2⅝	2⅞	2⅛	3	3¾
Per dozen	$4 50	4 50	6.00	6.00	7.00	11.00

Twelfth Dozen on a Card, One Dozen in a Box

Same as No. 400, only polished copper on outside oval.

No. 400C—Sizes	8	9	12
Length of spoon, inches	2⅛	3	3¾
Per dozen	$6 00	7.00	11.00

Twelfth Dozen on a Card, One Dozen in a Box
One Dozen in a Box

PEARL KIDNEY SPOONS

Brass barrel swivels, polished pearl blades, painted red inside, feathered treble hooks.

No. 667—Sizes	2	2½	3	4	5	6
Length of spoon, inches	1	1⅛	1⅛	1¼	2	2½
Treble hooks, sizes	3	2	1/0	2/0	3/0	5/0
Per dozen	$4.80	5.00	5.00	5.00	5 30	7.00

Twelfth Dozen on a Card, One Dozen in a Box

Forges

Champion Agricultural Lever and Crank Forges

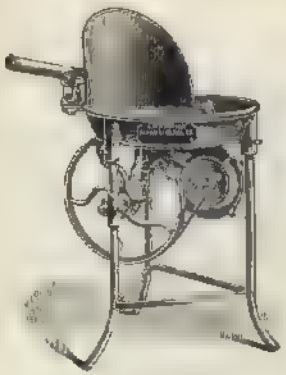


Fig. 979
No. 100

The Champion Agricultural Lever Forges are built to meet the demand of a cheap forge for farmers' use and then only for light work. They are, of course, well built, but in the cheapest manner possible, and are intended to be used where light odd jobs only are to be done. The ratchet lever motion used on these forges is durable and not liable to get out of order. We do not recommend any of the agricultural forges to anyone who expects a day's work from a workman.

No. 100. Champion Lever Forge with shield, height, 30 inches; hearth, 22 inches in diameter; fan, 9 inches; weight, 90 pounds . . . . . each $16 00

No. 101. Champion Agricultural Lever Forge, same as No. 100, with half hood; weight, 100 pounds . . . . . each $18 00

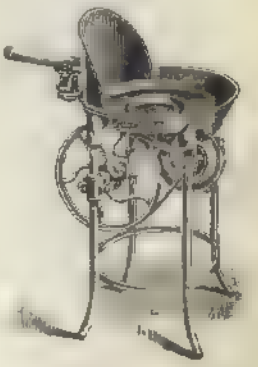


Fig. 980
No. 150

No. 150. Champion Lever Forge with shield, hearth, 18 inches; fan, 8 inches; weight, 75 pounds . . . . . each $14 00

No. 151. Champion Lever Forge, same as No. 150, with half hood; weight, 80 pounds . . . . each $16 00

Fig. 981
No. 153

No. 152. Champion Crank Forge with shield, hearth 18 inches; fan 8 inches; weight, 70 pounds . . . . each $14 00

No. 153. Champion Crank Forge, same as No. 152, with half hood; weight, 75 pounds . . . . . each $16 00

Forges

Champion Agricultural Lever and Crank Forges

Fig 982
No. 75

No. 76. Champion Midway Spiral-Geared Forge with cast iron hearth, 22 inches in diameter with half hood weight 145 pounds each $33 00

No. 77. Champion Midway Spiral-Geared Forge, with cast iron hearth, 22 inches in diameter fan, 10 inches in diameter; with full hood; weight 150 pounds.....each $36 00

No. 78. Midway or Cross Spiral-Geared Steel Hearth Rivet Forge with hearth, 18 inches in diameter; height, 30 inches; fan, 10 inches in diameter, with shield weight 135 lbs each $51 00

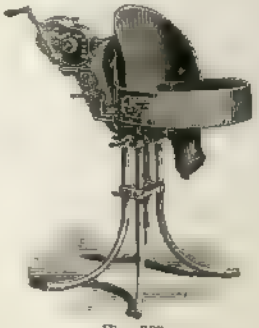


Fig 983
No. 401 With Shield

No. 401. Champion Steel Rivet Forge, with shield; hearth, 18 inches in diameter, height, 30 inches; fan, 9 inches in diameter; weight, 115 pounds ..... each $35 00

No. 404. Champion Steel Rivet Forge with shield; hearth, 24 x 24 inches; height, 30 inches, fan, 9 inches in diameter weight 170 lbs each $45 00

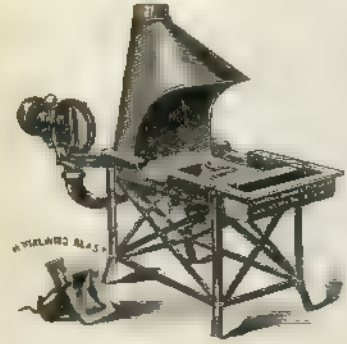


Fig 984
No. 408 With Half Hood

The No. 408 Champion Steel Horseshoer's Forge is virtually the No. 400 Champion steel Blower converted into a most practical and complete up-to-date horseshoer's or blacksmith's forge It has been on the market 14 years and has won for itself friends in all nations among horseshoers and general blacksmiths

No 408 Champion Steel Horseshoers' and Blacksmith's Forge with half hood; hearth, 30 x 36 inches; height, 30 inches; fan, 12 inches in diameter; with No 400 Champion Whirlwind Blast Anti Clinker Heavy Nest Tuyere Iron, weight 300 pounds each $65 00

With water tank . extra 5 00

Forges

Champion Agricultural Lever and Crank Forges

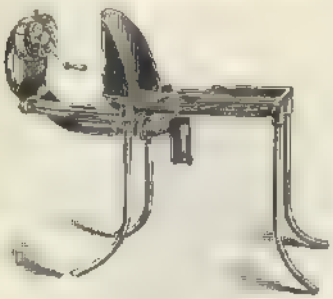


Fig. 985
No. 42

No. 42 Champion Lancaster Geared Direct-drive Agricultural Forge; hearth, 23 x 35 inches; fan, 12 inches; with shield, weight, 165 pounds... .... each $36.00

No. 43 Champion Lancaster Geared Direct drive Agricultural Forge; hearth, 23 x 35 inches; height, 30 inches; fan, 12 inches; with half hood; weight, 170 pounds. each $40 00

No. 45 Champion Lancaster Geared Direct-drive Agricultural Forge; hearth, 22 inches in diameter; fan, 10 inches with shield weight 1 5 pounds each $27 00

No. 46 Champion Lancaster Geared Direct drive Agricultural Forge; size of hearth 22 inches; diameter of fan, 10 inches with half hood; weight, 120 pounds each $30 00

Fig. 986
No. 45

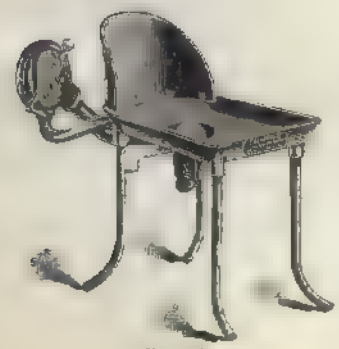


Fig. 987
No. 72 Spiral Geared Midway Forge

No. 72. Champion Midway Spiral-Geared Forge, with cast iron hearth, 23 x 35 inches, height, 30 inches; fan, 10 inches in diameter; with shield, weight 185 pounds each $36 00

No. 73. Champion Midway Spiral-Geared Portable Forge with cast iron hearth, hearth, 23 x 35 inches; fan, 10 inches in diameter; with half hood; weight, 190 pounds... each $40 00

No. 74. Champion Midway Spiral-Geared Forge, with cast iron hearth, hearth, 23 x 35 inches, height, 30 inches; fan, 10 inches in diameter; with full hood, otherwise the same as the No. 73 weight 200 pounds each $43 00

No. 75. Champion Midway Spiral-Geared Rivet Forge, with cast iron hearth, 22 inches in diameter, height, 33 inches; fan, 10 inches in diameter; with shield; weight, 140 pounds .. .. each $30 00

Forges

Royal Western Chief Forge No. 100

Fig. 988
No. 100 Forge

For use of large blacksmith, wagon, plow, railroad shops, etc., where heavy work is done, blower, 12 inches; hearth, 31½ x 45½ inches, height, 30 inches; length over all, 53 inches, crank turns forward or backward capacity to heat, 4-inch iron

This forge combines our Royal style of blower with Western Chief Standard Hearth having solid fire pot with tuyere ball furnishing side and center blast. We guarantee it fully

List price, with one tank; weight, 295 pounds ..... each $50 00

List price, with extra tank (as illustrated weight, 325 pounds ..... each $55 00

Always shipped without extra tank, unless so ordered

No. 99. Same as No. 100, but with shield, with one tank ..... each $50 00

With extra tank, list price ..... each 55 00

Royal Western Chief Forge No. 103

For horseshoers, small blacksmith shops, garages, boilermakers, etc.; blower, 10 inches hearth 23 x 34 inches, height 30 inches, weight, 185 pounds; crank turns forward or backward capacity to heat 3½-inch iron Equipped with Royal type of blower and duck nest fire pot

List price. ..... each $42 00

No. 102. Same as No. 103, but with shield instead of half hood; weight, 180 pounds.

List price. ..... each $38 00

Fig. 989
No. 103 Forge

Fig. 990
No. 104 Forge

Royal Western Chief Forge No. 104

Excellent for mines, quarries, bridge-builders, railroad and outdoor repair or construction work; blower, 10 inches; hearth, 22 inches; height, 33 inches; weight, 120 pounds; crank turns forward or backward; capacity to heat, 3½-inch iron.

The Royal type of blower with cast iron hearth will outwear steel hearth. The most serviceable forge constructed for outdoor use.

List price ..... each $33 00

No. 105. Same as No. 104, but with half hood; weight, 125 pounds

List price ..... each $36 00

Gauge Glass Cutters — Chesterton's

Fig. 936

Price ... each $4 00

Discount

Gauge Glass Gaskets

Round, square, other shapes, and special sizes made to order

Cylindrical Glass for Oil Cups

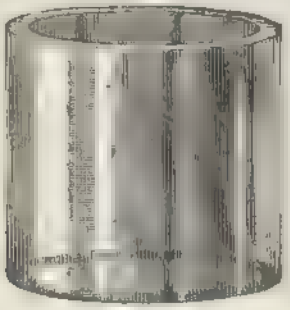


Fig. 937

No.	Outside Diam. of Cylindrical Glasses Inches	Height of Cylindrical Glasses Inches	Outside Diam. at Upper End of Urnshaped Glasses Inches	Height of Urnshaped Glasses Inches	Cylindrical or Urnshaped Glasses Each	Cork Washers per Dozen
000	1	$\frac{3}{8}$			$0 05	$0 15
00	1⅛	1	1⅛	1½	06	18
0	1¼	1⅛	1¼	1⅝	08	24
1	1½	1⅝	1½	2	10	30
1½	1¾	1⅝	1¾	2¼	10	36
2	2	1⅞	2	2½	12	40
3	2¼	2⅛	2¼	2¾	15	45
4	2½	2⅜	2½	3⅛	25	50
5	3	3	3	3⅝	35	60
6	3½	4	3½	4½	65	.75
8	4¼	5			90	1 50

In ordering glasses always specify whether cylindrical or urnshaped are wanted.

Gauges

Ashcroft Steam or Pressure Gauges

Fig. 938

Prices Each

With single Bourdon spring, including cock for each gauge.

Size Inch Dial	Iron Case Brass Ring	Iron Case Nickeled Ring	Brass Case	Nickeled Case
12	$55 00	$61 50	$75 00	$79 00
10	37 00	33 00	40 00	43 00
8½	25 00	22 75	30 00	32 50
6¾	18 00	15 60	20 00	22 00
6	15 00	13 50	16 00	17 50
5½	10 00	10 25	12 00	13 25
5	8 00	8 20	11 00	12 00
4½	8 00	8 20	10 00	11 00
3¾	7 00	7 10	9 00	9 75
2½	6 00	6 15	8 00	8 60

Prices Each

With double Bourdon spring, including cock for each gauge

Size Inch Dial	Iron Case Brass Ring	Iron Case Nickeled Ring	Brass Case	Nickeled Case
12	$55 00	$59 50	$80 00	$84 00
10	37 00	28 00	45 00	48 00
8½	25 00	25 75	34 00	36 50
6¾	18 00	18 60	23 00	24 00
6	15 00	15 50	15 00	1 60
5½	12 00	12 25	14 00	1 25
5	11 00	11 20	1 80	14 00
4½	10 00	10 20	1 00	1 00

Ashcroft Auxiliary Spring Locomotive Gauges

Prices Each

Including cock and coupling for each gauge, and wooden blocks to form air space back of gauge

Size Inch Dial	Iron Case Brass Ring	Iron Case Nickeled Ring	Brass Case	Nickeled Case
6¾	$8 00	$15 00	$22 00	$24 00
6	15 00	15 50	18 00	19 50
5½	12 00	1 25	14 00	15 25
5	11 00	11 2	1 00	14 00
4½	10 00	1 20	1 00	13 00

Fig. 939

Prices Each

For double spring locomotive gauges, including cock and coupling for each gauge and wooden blocks to form air space back of gauge

Size, Inch Dial	Iron Case Brass Ring	Iron Case Nickeled Ring	Brass Case	Nickeled Case
4½	$10 00	$10 20	$1 00	$1 00
5	11 00	11 20	1 00	14 00
5½	12 00	12 25	14 00	15 25
6	15 00	15 50	1 00	1 50
6¾	18 00	18 60	21 00	24 00

Gauges

Ashcroft Compound Pressure and Vacuum Gauges

With Single Bourdon Springs

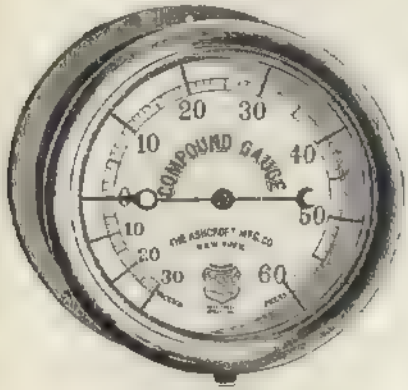


Fig. 940

Ashcroft Combination Water Pressure Gauges

With Single Bourdon Springs

Fig. 941

Prices Each Fig. 940

Including Cock for Each Gauge

Size Inch Dial	Iron Case Brass Ring	Iron Case Nickeled Ring	Brass Case	Nickeled Case	Brass Deep Case	Nickeled Deep Case
12	$80 00	$81 50	$90 00	$84 00	$85 00	$89 00
1[illegible]	40 00	41 00	50 00	53 00	54 00	57 00
[illegible]	30 00	30 75	40 00	42 50	43 50	46 00
[illegible]	20 00	30 60	25 00	27 00	28 00	30 00
[illegible]	16 00	16 50	20 00	21 50		
[illegible]	14 00	14 25	16 00	17 25		
5	14 00	14 25	16 00	17 25		
4[illegible]	12 00	12 20	14 00	15 00		
4	10 00	10 18	12 00	12 75		

Prices Each Fig. 941

Including Cock for Each Gauge

Size Inch Dial	Iron Case Brass Ring	Iron Case Nickeled Ring	Brass Case	Nickeled Case	Brass Deep Case	Nickeled Deep Case
12	$80 00	$81 50	$90 00	$84 00	$85 00	$89 00
1[illegible]	4[illegible]	[illegible]	50 00	[illegible]	[illegible]	[illegible]
[illegible]	30 00	30 75	40 00	42 50	43 50	46 00
[illegible]	20 00	30 60	25 00	[illegible]	[illegible]	30 00
[illegible]	16 00	16 50	20 00	21 50		
[illegible]	14 00	14 25	16 00	17 25		
4 [illegible]5	12 00	12 30	14 00	15 00		

Sectional View

Fig. 942

Gauges

Ashcroft Duplex Air Brake Gauges

Westinghouse Type

3½ inch Dial, brass deep case

Price . . . . . each $30 00

Discount

Ashcroft Hydraulic Gauges
With Steel Springs

Fig. 943

Prices Each

Size, Inch Dial	Iron Case Brass Ring	Iron Case Nickeled Ring	Brass Case	Nickeled Case
12	$110 00	$131 50	125 00	$129 00
10	90 00	91 00	100 00	103 00
8½	70 00	70 75	80 00	82 50
6½	50 00	50 50	60 00	62 00
6	35 00	37 50	40 00	41 50
5	30 00	31 50	35 00	36 00
4½	25 00	25 50	30 00	31 00
3½	22 00	22 50	26 00	26 75

Maximum, hand $5 00 extra.

Discount

Steam Gauge Hand Puller and Setter

For quickly and easily removing the hands from gauge

Price . . . . . each $1 50

MODEL 48 WITH ARCH FRAME.

G. & J. CHAIN TREAD CLINCHER.
Double Tube Tire.

Fisk Black Tough Tread
Single Tube Tire.

COMPLETE WITH COASTER BRAKE, MUD GUARDS, STAND, FANCY HEAD AND SEAT POST MAST

Frame—21 inch, one inch 19 gauge tube; 5 inch head, flush connections, ⅞ tapered rear forks, ¾ rear stays.
Arch Bar—¾ inch.
Fork—Full enameled, fancy dart finish.
Crown—One-piece forging.
Cranks—Fauber Round Special one-piece patented with three-arm design sprocket.
Hubs—Coaster brake, New Departure, with front hub to match.
Chains—3/16 inch x 1 inch pitch roller
Finish—Black with ivory white head and seat mast, or blue with white head and seat post masts, U. S. Patent No. 45170

Tires—Fisk Premier single tube or G. and J. chain tread 28x1¾ inch, double tube, guaranteed by the U. S. Tire Co.
Saddle—Troxel No. 2 Motor Bike.
Pedals—Rubber, our No. 5.
Bars—No. 10 adjustable forward extension with bulldog leather grips.
Mud Guards—Drop side, steel, front and rear, double braces and enameled with center stripe to match frame.
Stand—Dead nickeled

	Each
No. 18—Bicycle, 21 inch frame; 28x1½ inch Fisk Premier black tough tread single tube guaranteed tires; New Departure coaster brake; 75 gear	$70.50
No. 21—Bicycle, 21 inch frame; 28x1¾ inch G. & J. chain tread double tube guaranteed tires; New Departure coaster brake; 75 gear	76.50
Tool Bag, complete with tools, extra	1.00

CROWN BICYCLES.

MODEL 46.

COMPLETE WITH COASTER BRAKE, MUD GUARDS, FANCY HEAD AND STAND.

Frame—21 inch, 1 inch 19 gauge tube; 4 and 5 inch head flush connections; ⅞ tapered rear forks; ¾ rear stays.

Fork—Full enameled.

Crown—Forging one-piece

Cranks—Fauber Round Special; one piece patented with 3 arm design sprocket

Hubs—New Departure coaster brake. Front hub to match.

Rims—Enameled to match frame.

Chain—3/16 roller 1 inch pitch.

Finish—Black or blue with ivory white head (U. S. Patent No. 45170).

Saddle—Troxel No. 2 Motor Bike.

Tires—Fisk black tough tread single tube, 28x1½ inch. Guaranteed by Fisk Rubber Co.

Pedals—Rubber.

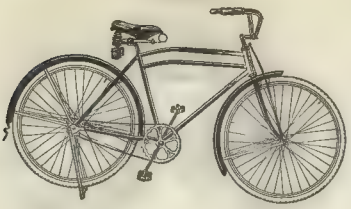
Bar—No. 10 Adjustable Expander forward extension, with Bulldog leather grips.

Guards—Drop side steel front and rear, double braces Enameled with center stripe to match head.

Stand—Dead nickeled

	Each
No. 46—Bicycle; 21 inch frame, black or blue with ivory white fancy head; 28x1½ inch Fisk black tough tread single tube guaranteed tires; New Departure coaster brake; 75 gear; **specify finish**	$64.50
Tool Bag—Complete with tools, extra	1.00
Extra for G & J Tires	6.00

MODEL 54
MOTOBIKE.



DOUBLE BAR CURVED TOP BARS—BRACED MOTOR TYPE FRONT FORK.

COMPLETE WITH COASTER BRAKE, MUD GUARD AND STAND.

Frame—Double bar, curved top bar, 20 inch.

Wheels—28-in.

Fork—Full enameled, braced motor type.

Crown—Forged.

Cranks—FAUBER Round Special, one piece patented with three-arm sprocket.

Gear—24-tooth front, 10-tooth x 3-16 x 1-in. pitch rear.

Hubs—Coaster Brake, NEW DEPARTURE.

Rims—28-in. enameled to match frame.

Chain—3-16 x 1-in. pitch roller.

Finish—Blue with ivory white head.

Tires—28x1¼ inch Fisk-Premier tough tread single tube, guaranteed by Fisk Rubber Co.

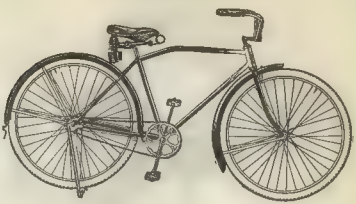
Saddle—Troxel No. 2 Motor Bike.

Pedals—Rubber.

Bars—No. 10 adjustable forward extension with Bull Dog leather grips.

	Each
No. 54-20—Bicycle; 20 inch frame, blue with ivory white head; 28x1½ inch Fisk-Victor non-skid single tube guaranteed tires; New Departure coaster brake	$70.50
Tool Bag—Complete with tools, extra	1.00
Extra—For G. & J. Tires	6.00

MODEL 10.



COMPLETE WITH COASTER BRAKE, MUD GUARDS AND STAND.

Frame—18 inch, 1 inch 19 gauge tube; 4 inch head; flush connections; ⅞ tapered rear forks; ¾ rear stays.

Fork—Full enameled.

Crown—Forging one piece.

Cranks—Fauber Round Special, one piece patented with 3 arm design sprocket.

Hubs—New Departure coaster brake. Front hub to match.

Rims—Enameled to match frame.

Chain—⅜ roller, 1 inch pitch.

Finish—Blue with ivory white head (U. S. Patent No. 45170).

Saddle—Troxel Motor Bike

Tires—Fisk black tough tread single tube, 28x1½ inch. Guaranteed by Fisk Rubber Co.

Pedals—Rubber.

Bar—No. 10 Adjustable Expander forward extension, with Bull Dog leather grips.

Guards—Steel front and rear, double braces. Enameled with center stripe to match head.

Stand—Dead nickeled.

	Each
No. 10—Bicycle; 18 inch frame, blue with ivory white fancy head; 28x1½ inch Fisk black tough tread single tube guaranteed tire; New Departure coaster brake; 75 gear	$64.50
Tool Bag—Complete with tools, extra	1.00
Extra—For G. & J. Clincher Tires	6.00

CROWN.

LADIES' MODEL 56

COMPLETE WITH COASTER BRAKE MUD GUARDS AND STAND.

Frame—20 inch, one inch 19 gauge tube; 7 inch head; flush connections; ⅜ tapered rear forks; ¾ rear stays.

Fork—Full enameled with dart finish.

Crown—Forging one piece.

Cranks—Fauber Round Special: one piece patented, with 3 arm pattern sprocket.

Gear—22 tooth front, rear 9x3/16 inch.

Hubs—Coaster brake, New Departure, front hub to match.

Rims—Enameled to match frame.

Chain—3/16 Roller, one inch pitch.

Finish—Black with ivory white head.

Tires—Fisk black tough tread single tube 28x1½ inches, guaranteed by Fisk Rubber Co.

Saddle—Troxel Coil Spring.

Pedals—Rubber.

Bar—Adjustable expander with bull-dog leather grips.

Dress and chain guard nets and stand.

Each

No. 56-20—Ladies' Bicycle, 20 inch frame, black, 28x1½ inch Fisk black tough tread single tube guaranteed tires; New Departure coaster brake.....$70.50

Tool Bag—Complete with tools, extra..... 1.00

JUVENILE.

COMPLETE WITH MUD GUARDS AND STAND.

The highest grade Juvenile in the World, an exact duplicate of the adult's model, except being made in smaller sizes and properly proportioned, beautifully finished.

Cranks—Fauber one-piece cranks, patented, with four-arm sprocket.

Hubs—New Departure coaster brake, front hub to match. High grade Juvenile saddle, pedals and adjustable bars.

Tires—1⅝ inch Fisk single tube. Guaranteed by Fisk Rubber Co.

Colors—Enameled black or blue with ivory white head. (U. S. Patent No. 45170.)

Rims—Aluminum and Striped.

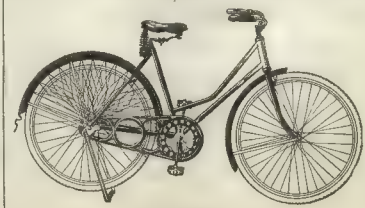
Gear—22x10 sprockets.

BOYS' MODELS.

Each

No. 8—Boys' Bicycle; 17 inch frame; 26x1⅜ inch Fisk guaranteed single tube tires, with New Departure coaster brake. $56.50

Tool Bag—Complete with tools, extra 1.00



GIRLS' MODELS.

Each

No. 9—Girls' Bicycle; 17 inch frame; 26x1⅜ inch Fisk guaranteed single tube tires, with New Departure coaster brake, dress and chain guard.....$57.50

Tool Bag—Complete with tools, extra. 1.00

POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

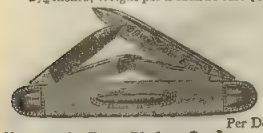
EMPIRE

DIAMOND EDGE (FANCY PATTERNS)

Oval **Pearl Handles, Invisibly Riveted;** German Silver Lined, **Rolled Gold** Bolsters and Shield; Full Crocus Polished and Etched Blades; Flush Joints.

Per Dozen

No. 2DEG —Two Blades, One Large Spear and One Small Pen; Length 2¾ inches; Weight per Dozen 10 ozs. **$36.00**



Per Dozen

No. 42DEG—Four Blades, One Large Spear, Two Small Pens and One File; Length 2¾ in.; Weight Doz 12 ozs. **$44.00**

No. 4DEG Four Blades, One Large Spear, Two Small Pens and One File; Length 3 inches; Wt. Doz. 16 ozs... **48.00**

Per Dozen

No. 2543—Oval Sterling Silver Handle, French Gray Finish; Length 2¾ inches; Golf Design; German Silver Lined; Two Blades, One Large Spear and One Small Pen, Full Crocus Polished; Weight per Doz 7 ozs...**$33.00**

Oval **Sterling Silver Handle,** French Gray Finish; Length 2¾ inches; Floral Design; German Silver Lined; Full Crocus Polished Blades.

Per Dozen

No. 28—Two Blades; One Large Spear and One Small Pen; Wt. Doz. 7 ozs .. **$33.00**

No. 24—Four Blades; One Large Spear, Two Small Pens and One File; Weight per Dozen 10 ozs..... **38.00**

Oval, **Sterling Silver** Handle, French Gray Finish, Art Design; Length 3 inches; German Silver Lined; Full Crocus Polished Blades.

Per Dozen

No. 22—Two Blades, One Large Spear and One Small Pen; Wt. Doz. 10 ozs.**$33.00**

No. 27—Four Blades, One Large Spear, Two Small Pens and One File; Weight per Dozen 12 ozs..... **40.00**

All Above, Half Dozen in a Box

Oval, **Sterling Silver** Handles, French Gray Finish, Locust Design; Length 2¾ inches; German Silver Lined; Milled Backs; Full Crocus Polished Blades.

Per Dozen

No. 28G—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 8 ozs..... **$33.00**

No. 34G—Four Blades, One Large Spear, Two Small Pens and One File; Weight per Dozen 10 ozs..... **38.00**

Per Dozen

No. 341—Oval, Sterling Silver Handle, French Gray Finish; Columbia Design; Length 3¼ inches; German Silver Lined; **Three Blades,** One Large Spear, One File and One Cigar Cutter with Patent Spring Opener; Full Crocus Polished and Etched, Weight per Dozen 16 ozs..... **$48.00**

Oval, **Sterling Silver** Handle, French Gray Finish, Nimrod Design; Length 3 inches; German Silver Lined; Full Crocus Polished Blades.

Per Dozen

No. 2536 —Two Blades, One Large Spear and One Small Pen; Weight per Dozen 10 ozs..... **$33 00**

No. 42536—Four Blades, One Large Spear, Two Small Pens and One File; Weight per Dozen 12 ozs..... **40 00**

Oval, **Sterling Silver** Handle, French Gray Finish, Angler Design, Length 3¼ inches; German Silver Lined; Full Crocus Polished and Etched Blades.

Per Dozen

No. 2540 -Two Blades, One Large Spear and One Small Pen; Weight per Dozen 10 ozs **$33.00**

No. 42540—Four Blades, One Large Spear, Two Small Pens and One File; Weight per Dozen 14 ozs **48 00**

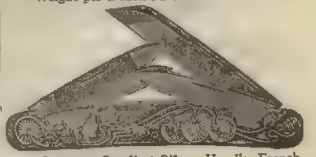
All Above, Half Dozen in a Box

Oval, **Sterling Silver** Handle, French Gray Finish, Floral Design; Length 3 inches; German Silver Lined; Full Crocus Polished and Etched Blades.

Per Dozen

No. 2721 —Two Blades, One Large Spear and One Small Pen; Weight per Dozen 10 ozs..... **$33.00**

No. 42721—Four Blades, One Large Spear, Two Small Pens and One File; Weight per Dozen 14 ozs..... **48.00**



Congress, **Sterling Silver Handle,** French Gray Finish, Water Lily Design; Length 3½ inches; German Silver Lined; Hand Milled Backs; Full Crocus Polished and Etched Blades.

Four Blades, One Large Congress, Two Small Pens and One File; Weight per Dozen 22 ozs. Per Dozen

No. 4S194½SS—DIAMOND EDGE **$50.00**

No. 4E194½SS—Empire..... **50.00**

Oval, **German Silver** Handle, Bronze Finish, Art Design; Length 3¼ inches; Unlined; Half Crocus Polished and Etched Blades.

Two Blades, One Large Spear and One Small Pen; Weight per Dozen 16 ozs.

Per Dozen

No. 2S342M DIAMOND EDGE **$13 00**

No. 2E342M—Empire..... **13.00**

Oval, **German Silver Handle,** Oxidized Silver Finish, Art Design; Length 3¼ inches; German Silver Lined; Half Crocus Polished and Etched Blades.

Two Blades, One Large Spear and One Small Pen; with Cork Screw, Wire Cutter and Bottle Cap Remover; Weight per Dozen 16 ozs.

Per Dozen

No. 4S347M—DIAMOND EDGE..... **$30 00**

No. 4E347M—Empire..... **30 00**

All Above, Half Dozen in a Box

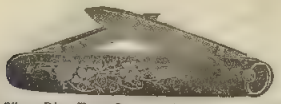
Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

*SHAPLEIGH HARDWARE COMPANY

GERMAN IMPORTED FANCY PATTERNS

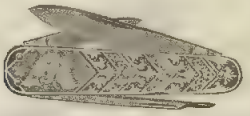
Finest Grade Hand Forged Steel Blades, Full Crocus Polished; Artistically Embossed Steel Handles; German Silver Milled Linings



German Silver Ring Easy Opener; Oval Handle, Length 3 inches; **Black Gun Metal Finish,** Raised Floral Design in Silver, Bronze and Red Colors.

Per Dozen

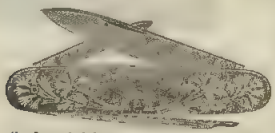
No. H1—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 14 ozs..... **$46 00**



Oval Tapered Handle, Length 2¾ inches; **Blued Steel and Gold Background** with Polished Steel Raised Floral and Sheaf Design; Old Glory in Red, White and Blue on one side and Silver Eagle on the other.

Per Dozen

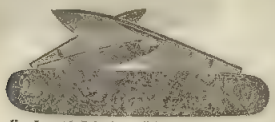
No. H4—Three Blades, One Large Spear, One Small Pen and One Long Nail File; Weight per Doz. 14 ozs..... **$48.00**



Oval Handle, Length 3 inches; **Black Gun Metal Finish,** Raised Floral Design in Silver and Gold Finish.

Per Dozen

No. H2—Three Blades, One Large Spear, One Small Pen and One Long Nail File, Weight per Dozen 14 ozs..... **$50 00**



Oval Handle, Length 3 inches; **Black Gun Metal Finish,** Raised Floral Design in Silver Finish.

Per Dozen

No. H8—Three Blades, One Large Spear, One Small Pen and One File; Weight per Dozen 19 ozs..... **$48 00**

Oval Tapered Handle, Length 2¾ inches; **Blued Steel and Gold Background** with Polished Steel Raised Floral and Sheaf Design; Old Glory in Red, White and Blue on one side and Silver Eagle on the other.

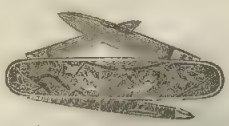
Per Dozen

No. H9—Three Blades and Scissors, One Large Spear, One Small Pen and One Long Nail File; Weight per Dozen 20 ozs..... **$78.00**

Oval Handle, Length 2¾ inches; **Dull Silver Finish Background** with Raised Floral and Bird Design in Polished Silver, Gold and Red Colors.

Per Dozen

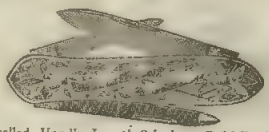
No. H5—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 14 ozs..... **$32.00**



Oval Handle, Length 2½ inches; **Gold Background** with Blued Steel Tree and Silver Bird Design; Raised Polished Steel Border.

Per Dozen

No. H7—Three Blades, One Large Spear, One Small Pen and One Long Flat Nail File; Weight per Dozen 10 ozs.... **$54.00**



Fancy Swelled Handle, Length 3 inches; **Gold Background** with Raised Branch Design in Blued Steel and Silver Finish; Raised Polished Steel Border.

Per Dozen

No. H6—Three Blades, One Large Spear, One Small Pen and One Long Flat Nail File; Weight per Dozen 14 ozs... **$48.00**

Oval Handle, Length 3¼ inches; **Gold Background** with Raised Floral and Scroll Design in Blued Steel, Silver and Red Colors; Old Glory in Red, White and Blue on one side and Silver Eagle on the other.

Per Dozen

No. H3—Four Blades, One Narrow Congress, Two Pens and One File; Weight per Dozen 14 ozs. **$47.00**

Heavy Oval Handle, Length 3 inches; **Gold Background** with Raised Grape Vine Design; Vine and Grapes in Blued Steel Finish and Silver Leaves; Raised Polished Steel Border.

Per Dozen

No. H10—Two Blades with Cork Screw and Wire Cutter: One Large Spear Blade and One Small Pen Blade; Weight per Dozen 1¾ lbs..... **$56.00**

All Above, Quarter Dozen in a Box; One Dozen in a Package

POCKET KNIVES

Forged from the Highest Grade Sheffield Steel; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections; Fully Guaranteed.

*DIAMOND EDGE FANCY PATTERNS

12K GOLD FRONT HANDLES, WITH SOLID GOLD SHACKLES

12K Gold Front Flat Handles, 1/60 Stock; Fancy Engraved Design, Length 3 inches. Brass Lined; Full Crocus Polished Blades. Per Dozen

No. 8205—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 15 ozs. **$27 00**

12K Gold Front Flat Handles, 1/10 Stock; Fancy Engraved Design; Length 2⅝ inches; German; Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 436/OE—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 13 ozs. **$54 00**

12K Gold Front Flat Handles, 1/10 Stock; Fancy Engraved Design; Length 2⅝ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 6/13—Three Blades, One Large Spear, One Small Pen and One File; Weight per Dozen 13 ozs. **$51 00**

12K Gold Front Flat Handles, 1/60 Stock; Fancy Engraved Design; Length 2¾ inches. Brass Lined Full Crocus Polished Blades. Per Dozen

No. 8104—Two Blades, One Large Spear and One Small Pen; Weight per Dozen 14 ozs. **$22.00**

12K Gold Front Flat Handles, 1/10 Stock; Fancy Engraved Design; Length 2½ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 465/OE—Three Blades, One Large Spear, One Small Pen and One File; Weight per Dozen 14 ozs. **$80.00**

12K Gold Front Oval Handles, 1/10 Stock; Satin Finish with Beveled Edges; Length 2⅝ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 6/1—Three Blades, One Large Spear, One Small Pen and One Nail File; Weight per Dozen 13 ozs. **$60.00**

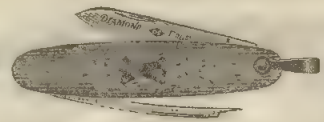
12K Gold Front Oval Handles, 1/10 Stock; Satin Finish with Beaded Edges; Length 2⅜ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 1/47—Two Blades, One Large Spear and One Nail File; Weight per Dozen 12 ozs. **$48.00**

12K Gold Front Oval Handles, 1/10 Stock; Bright Finish, Fancy Engraved Design; Length 2⅜ inches; German Silver Lined, Full Crocus Polished Blades. Per Dozen

No. 4/27G Two Blades, One Large Spear and One Nail File; Weight per Dozen 12 ozs. **$70.00**

All Above, Half Dozen in a Box



12 GKold Front Oval Handles, 1/10 Stock; Satin Finish; Fancy Engraved Design; Length 2¾ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 33—Two Blades, One Large Spear and One Nail File; Weight per Dozen 12 ozs. **$48.00**

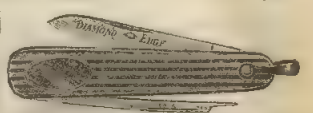
12K Gold Front Oval Handles; 1/10 Stock; Bright Finish; Fancy Engraved Design; Length 2⅜ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 1/97—Two Blades, One Large Spear and One Nail File; Weight per Dozen 13 ozs. **$66 00**

All Above, Half Dozen in a Box

12K Gold Front Oval Handles, 1/10 Stock; Fancy Engraved Design; Length 2¾ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 1/74—Two Blades, One Large Spear and One Nail File; Weight per Dozen 12 ozs. **$60.00**



12K Gold Front Oval Handles, 1/10 Stock; Bright Finish; Fancy Engraved Design; Length 2⅜ inches; German Silver Lined; Full Crocus Polished Blades. Per Dozen

No. 9/90—Two Blades, One Large Spear and One Nail File; Weight per Dozen 13 ozs. **$66 00**

All Above, Half Dozen in a Box

POCKET KNIFE ASSORTMENTS

	Per Assortment
No. 12GFA—12K Gold Front Handles, Twelfth Dozen Each of Above in Green Plush Lined Wood Case, Imitation Tan Leather Covered	**$58 00**
	Each
No. 12TL—Cases Only, Green Plushed Lined, to Hold Twelve Pocket Knives, Imitation Tan Leather Covered, Wood Frames.	**$1 40**
No. 6TL—Cases Only, as above, to Hold Six Pocket Knives as above	**1 00**
No. 3TL—Cases Only, as above, to Hold Three Pocket Knives as above	**60**

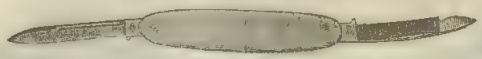
One in a Box

POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

EMPIRE

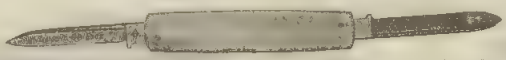
TWO BLADE PENS



Length 2⅝ inches; Uncapped, One Small Pen and One File Blade, Full Crocus Polished, German Silver Lining. Weight per Dozen 8 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S314P—Pearl Handle	$27 00	No. 2E314P—Pearl Handle	$27.00

Half Dozen in a Box



Length 2½ inches; Uncapped; One Small Pen and One File Blade. Full Crocus Polished; German Silver Lining. Weight per Dozen 10 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S315P Pearl Handle	$27 00	No. 2E315P—Pearl Handle	$27.00

Half Dozen in a Box

Length 3 inches; German Silver Capped; One Large Spear and One File Blade; Half Crocus Polished and Etched; German Silver Lining German Silver Shield; Weight per Dozen 14 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S312ST—Patent Stag Handle	$19 20	No. 2E312ST—Patent Stag Handle	$19.20
No. 2S312T —Tortoise Shell Handle	19 20	No. 2E312T Tortoise Shell Handle	19.20
No. 2S312P —Pearl Handle	38 00	No. 2E312P —Pearl Handle	38.00

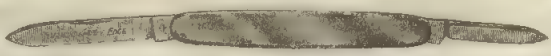
Half Dozen in a Box

Length 3 inches; Uncapped; One Large Spear and One File Blade; Half Crocus Polished and Etched; Unlined; No Shield. Weight per Dozen 13 ozs.

★DIAMOND EDGE

	Per Dozen
No. 2S312G—German Silver Handle	$17 00

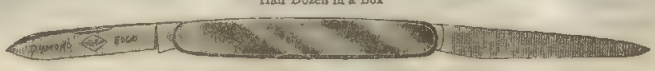
Half Dozen in a Box



Length 3 inches; One Large Spear and One Small Pen Blade; Full Crocus Polished and Etched; Unlined; Weight per Dozen 9 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S12G—German Silver Handle	$13.00	No. 2E12G—German Silver Handle	$13.00

Half Dozen in a Box



Length 3 inches; One Large Spear Blade and One Large Flexible Nail File Blade; Full Crocus Polished and Etched; Unlined; Weight per Doz. 10 ozs.

"ORIGINATED BY US"

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S12GF—German Silver Handle	$20.00	No. 2E12GF—German Silver Handle	$12.00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

WOOD PLUMBS AND LEVELS

★DIAMOND EDGE

Stocks—Made of the Best Selected Seasoned Hardwood; Light Weight; Handy; Grooved Grip along the Two Sides, allowing an easy Grip on the Tool. Our Three Piece Stocks are made of Three Pieces of Wood firmly Glued with Waterproof Glue. They are guaranteed to stand any Climate without becoming Warped or Twisted and will give much better Service than Metal. Handsomely Finished, Mahogany Stained and Waterproof Varnished.

Vials—The Vials in all these Levels are provided with a new Adjustment. They can easily be placed in any position and securely fastened by the Two Small Screws which connect with a Steel Nut that is fastened to the stock beneath the Vial Ring and a slight pressure with a Small Screw Driver releases or fastens the Vial ring. It is Metal to Metal and is entirely reliable. Each Glass in both Plumb and Level is Set in Plaster and Enclosed in a Metal Case and held in place at each End by an Adjusting Screw. A very delicate Adjustment is thus obtained. The Glasses in all *DIAMOND EDGE* Levels are Tested and Marked with Two Indelible Lines, between which the Bubble can be readily seen from above, either side or when working Overhead.

All Brass End Caps and Vial Rings are of Extra Heavy Gauge Handsomely Polished and Finished. Heavy Brass Adjusting Screws.

One Piece Stocks—The Stocks of these Levels are made of One Solid Piece of Hardwood; Piano Finish and Mahogany Stained; Coated with Waterproof Varnish. Adjustable Tested Spirit Vials.

Three Piece Stocks—The Stocks of these Levels are made of Three Pieces firmly fastened together with Waterproof Glue. The Outside Pieces are of Seasoned Hardwood and the Inside Piece of Handsome Black Walnut; Piano Finish and Mahogany Stained; Coated with Waterproof Varnish; Adjustable, Tested Spirit Vials with Polished Brass Rings. Polished Brass End Caps.

Three Vial Levels—They have Level Vial, Plumb Vial and an Extra Vial intended for use in getting Odd Grades and inclinations without disturbing the Adjustment of either the Level or Plumb

HOW TO ADJUST *DIAMOND EDGE* LEVELS OR TO PROVE THAT THE LEVEL IS ACCURATE

Select some Firm, Smooth Surface which appears practically Level. Place the Level to be tested as in ordinary use on the place selected and mark a line around the Level so as to preserve the exact spot, as it will be necessary to reverse the Level in testing. Now, if the Bubble appears in the exact Center of the Glass when the Level is set within the Line marked on Testing Surface, and when ends of Level are reversed from Right to Left and Left to Right, then the Level is Accurate and requires no adjustment of the Glasses. Should, however, the Bubble show in the Center when Level is in First position but not in the Center when Level is reversed, then the Level is not accurate and Glasses must be adjusted; This can be done by simply loosening the Adjusting Screws, shifting the Glasses and reversing the Level Back and Forth and the Glasses up and down until the Bubble shows in the center. Tighten the Screws and the Operation is complete. The same principle holds good in reference to the Plumb Glasses, except a Vertical Surface must be employed instead of a Horizontal.

LEVEL GLASSES

★DIAMOND EDGE

All Glasses used in Diamond Edge Levels are of the Best Clear Tubes, accurately Proved inside, leaving a True Cylindrical Form. This is of Vital Importance because should the slightest imperfection be left on the Interior, the Bubble will not travel true and thus render a Level worthless. Center marks are Cut into the Glass and filled with Red Enamel making them plainly readable. Glasses are set into Cold Rolled Steel, Nickel Plated Holders and Plastered at ends. Holders are firmly riveted to Polished Brass Adjusting Rings of 2⅜ inch Diameter.

EXTRA LEVEL GLASSES WITH GRADUATED RING

Only Best Quality, Pure, Clear, White Spirits used in *DIAMOND EDGE* Levels.

	Per Dozen
No. DER—Complete with **Graduated** Rings as shown in Cut; Weight Each 3 ozs.; Weight per Dozen 2¼ lbs.	$9.00

Loose

WOOD PLUMBS AND LEVELS

★DIAMOND EDGE

No. DEX
LEVEL ONLY, WITHOUT PLUMB

One Vial, 3x1 inch Plain End One-Piece Stock; Plain Vial.

Lengths, Inches..	10	12	14	16	18	20
Wt. Each, lbs.....	¾	1	1	1¼	1⅜	1½
Wt. Doz., lbs.....	8¼	12	12	13½	15¾	18
Per Dozen.....	$8 00	8 00	6 00	6 00	6 00	6 00

One in a Box

No. DEO

Two Vial; 3½x1⅛ inch Plain End One Piece Stock; Plain Vials.

Lengths, Inches..	22	24	26	28
Weights Each, lbs	1¾	2	2¼	2⅜
Weight per Dozen, lbs.....	21	24	27	29¼
Per Dozen.....	$15 00	15.00	15 00	15 00

One in a Box

No. DE1

Two Vial; 3½x1⅛ inch Brass End One Piece Stock; Plain Vials.

Lengths, Inches.....	22	24	26	28
Weights Each, lbs.	1⅞	2¼	2½	2⅞
Weight Dozen, lbs.....	22½	25½	30	34½
Per Dozen.....	$17 00	17 00	17 00	17 00

One in a Box

No. DF2

Two Vial; 3½x1⅛ inch Brass End One Piece Stock; Ring Vials.

Lengths, Inches.....	24	26	28	30
Weights Each, lbs	2¼	2⅝	2⅞	3¼
Weight per Dozen, lbs	27	31	42	45
Per Dozen.....	$25 00	25 00	25 00	25 00

One in a Box

No. DE4

Two Vial; 3½x1⅛ inch Brass End Three Piece Stock; Ring Vials. This Stock will never Warp.

Lengths, Inches.....	24	26	28	30
Weights Each, lbs.....	2¼	2¾	2⅞	3
Weight per Dozen, lbs.....	27	33	34½	36
Per Dozen.....	$20 00	29 00	29 00	29 00

One in a Box

No. DE3

INCLINOMETER

This Tool is specially adapted to Carpenters and Millwrights Use.

Three Vial; 3½x1⅛ inch Brass End One Piece Stock; Ring Vials. Has One Plumb, One Level and One Incline Vial which can be adjusted to any Angle and will be found useful in many ways in determining pitches of Roofs, Drops of Drains, etc.

Lengths, Inches....	24	26	28	30
Weights Each, lbs	2¼	2⅞	3	3⅛
Weight per Dozen, lbs.....	27	34½	36	38
Per Dozen.....	$30 00	30 00	30 00	30 00

One in a Box

PLUMBS AND LEVELS

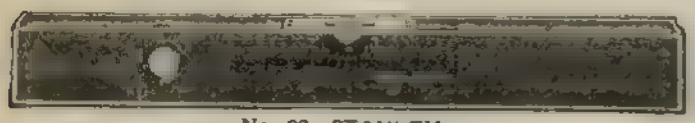
No. 95—STANLEY

BRASS BOUND, MAHOGANY; ONE PLUMB; ADJUSTABLE

One Piece, Polished Stock, 1⅜x3⅛ in.; Brass Tips; Brass Lips; Ground Glasses.

Lengths, Ins.	24	26	28	30
Wt. Each, lbs	3⅝	3⅞	4	4⅛
Per Dozen..	$100.00	100 00	100 00	100.00

One in a Box



No. 93—STANLEY

BRASS BOUND; MAHOGANY; ONE PLUMB; ADJUSTABLE

One Piece Polished Stock, 1⅜x3⅛ in.; Brass Tips; Plain Side Views; Proved Glasses.

Lengths, Inches	24	26	28	30
Wt. Each, lbs	3¾	3¾	3⅞	4
Per Dozen	$68 00	68 00	68 00	68 00

One in a Box

No. 98—STANLEY

BRASS BOUND; ROSEWOOD; ONE PLUMB; ADJUSTABLE

One Piece Polished Stock; Brass Tips; Brass Lips; Ground Glasses.

Lengths, Inches	6	9	12
Wt. Each, lbs	1¾	1¾	2¼
Per Dozen	$39 00	49 00	55 00

One in a Box

No. 1193—STANLEY

SMALL STOCK; BRASS BOUND; MAHOGANY; TWO PLUMBS; ADJUSTABLE

One Piece Stock, Size 1 1-16x2⅛ in.; Specially Selected and Carefully Polished and Finished; Brass Tips; Plain Side Views; Proved Glasses.

Lengths, Inches	12	18	24
Wt. Each, lbs	1¾	1⅞	2¼
Per Dozen	$49 00	60 00	70 00

One in a Box

No. 1093—STANLEY

SMALL STOCK; BRASS BOUND; MAHOGANY; ONE PLUMB; ADJUSTABLE

One Piece Stock, Size 1 1-16x2⅛ in.; Specially Selected and Carefully Polished and Finished; Brass Tips; Plain Side View; Proved Glasses.

Lengths, Inches	12	18	24
Weight. Each, lbs	1¼	1¾	2¾
Per Dozen	$44.00	55.00	65.00

One in a Box

No. 15—STANLEY VICTOR

HARDWOOD; NOT BOUND; TWO PLUMBS; ADJUSTABLE

Three Piece Polished Stock, 1⅜x3⅛ in.; Brass Tips; Brass Lips; Proved Glasses.

Length, Inches	26	28	30
Wt. Each, lbs	3¼	3¼	3¼
Per Dozen	$40.00	40.00	40 00

One in a Box

PLUMBS AND LEVELS

No. 13—STANLEY VICTOR

HARDWOOD; NOT BOUND; TWO PLUMBS; ADJUSTABLE

One Piece Polished Stock, 1⅜x3⅛ in.; Brass Tips; Plain Side Views; Proved Glasses.

Lengths, Ins.	24	26	28	30
Wt. Each, lbs.	3	3¼	3½	3⅝
Per Dozen	$33 50	33 50	33 50	33.50

One in a Box

No. 30—STANLEY DUPLEX

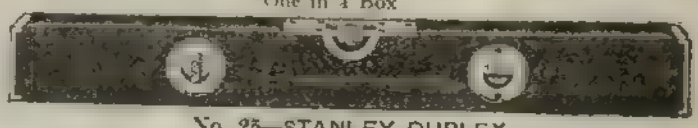
These Levels can be read conveniently, even if held at arms length above the head. They have three glasses: A level glass set in the top in the usual way, a plumb glass, and a second level glass set in the side. These latter two glasses are set close to one surface of the stock so that the angle of vision of the bubble is greatly increased. The second level glass can be readily reversed to form a second plumb, if desired.

HARDWOOD; NOT BOUND; THREE GLASSES; ADJUSTABLE

One Piece Polished Stock, 1⅜x3⅛ in.; Brass Tips; Brass Trimmed Openings on reverse side of extra Level and Plumb Glasses; Proved Glasses.

Lengths, Inches	24	26	28	30
Wt. Each, lbs.	2⅞	3¼	3¼	3½
Per Dozen	$36 00	36 00	36 00	36 00

One in a Box



No. 25—STANLEY DUPLEX

These Levels can be read conveniently, even if held at arms length above the head. They have three glasses: A level glass set in the top in the usual way, a plumb glass, and a second level glass set in the side. These latter two glasses are set close to one surface of the stock so that the angle of vision of the bubble is greatly increased. The second level glass can be readily reversed to form a second plumb if desired.

MAHOGANY; NOT BOUND; THREE GLASSES; ADJUSTABLE

One Piece Polished Stock, 1⅜x3⅛ in.; Brass Tips; Brass Lips; Brass Trimmed Openings on reverse side of extra Level and Plumb Glasses; Proved Glasses.

Lengths, Inches	24	26	28	30
Wt. Each, lbs.	2⅝	2¾	3	3¼
Per Dozen	$46.00	46.00	46.00	

Half Dozen in a Box

No. 1—STANLEY

MAHOGANY; NOT BOUND; ONE PLUMB; ADJUSTABLE

One Piece Polished Stock; 1⅜x3⅛ in.; Proved Glasses.

Lengths, Inches	24	26	28	30
Weight Each, lbs	2	2¼	2½	2¾
Per Dozen	$28.00	28.00	28 00	28 00

Half Dozen in a Box

No. 1X—STANLEY

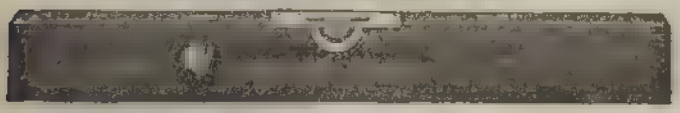
HARDWOOD; NOT BOUND; ONE PLUMB; ADJUSTABLE

One Piece Polished Stock, 1⅜x3⅛ in.; Proved Glasses.

Lengths, Inches	24	26	28	30
Weight Each, lbs	2⅜	2⅝	2¾	2⅞
Per Dozen	$20 00	20.00	20 00	20.00

Half Dozen in a Box

PLUMBS AND LEVELS



No. 2—STANLEY
HARDWOOD; NOT BOUND; ONE PLUMB; ADJUSTABLE
One Piece Polished Stock, 1⅜x3⅛ in.; Brass Lips; Proved Glasses.

Lengths, Inches.	24	26	28	30
Weight Each, lbs..	2¼	2⅝	2⅞	3
Per Dozen.....	$28.00	28.00	28.00	28.00

Half Dozen in a Box

No. 3—STANLEY
HARDWOOD; NOT BOUND; ONE PLUMB; ADJUSTABLE
One Piece Polished Stock, 1⅜x3⅛ in.; Brass Tips; Proved Glasses.

Lengths In..	24	26	28	30
Wt. lbs...	2⅝	3	3⅛	3⅛
Per Dozen	$30 00	30 00	30.00	30.00

Half Dozen in a Box

No. 4—STANLEY
HARDWOOD; NOT BOUND; ONE PLUMB; ADJUSTABLE
One Piece Polished Stock, 1⅜x3⅛ in.; Brass Tips; Brass Lips; Proved Glasses.

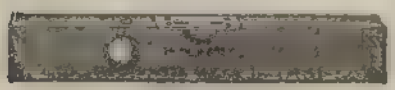
Lengths In.	24	26	28	30
Wt. lbs....	2¾	3	3¼	3¾
Per Dozen	$33 00	33.00	33 00	33.00

Half Dozen in a Box

No. 10—STANLEY
MAHOGANY; NOT BOUND; ONE PLUMB; ADJUSTABLE
Five Piece Polished Stock, 1⅜x3⅛ in.; Brass Tips; Brass Lips; Proved Glasses.

Lengths In.	24	26	28	30
Wt. lbs....	2¼	2⅝	2¾	3
Per Dozen	$45.00	[illegible] 00	45.00	45.00

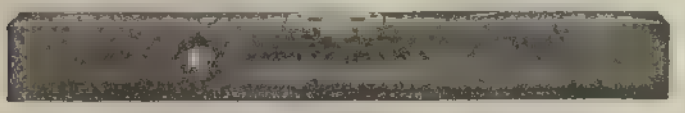
Half Dozen in a Box



No. 00—STANLEY
HARDWOOD; NOT BOUND; ONE PLUMB; NON-ADJUSTABLE
One Piece Polished Stock, 1⅜x3⅛ in.; Proved Glasses.

Lengths, Inches..	18	20	22	24
Weight Each, lbs....	1¾	2	2⅛	2⅜
Per Dozen.....	$15 50	15 50	15.50	15.50

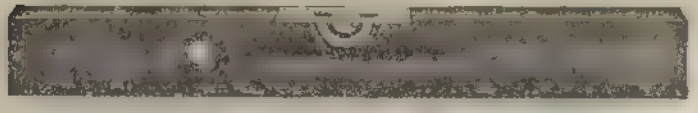
Half Dozen in a Box



No. 0—STANLEY
HARDWOOD; NOT BOUND; ONE PLUMB; NON-ADJUSTABLE
One Piece Polished Stock, 1⅜x3⅛ in.; Proved Glasses.

Lengths, Inches..	24	26	28	30
Weight Each, lbs...	2¾	2⅞	2⅞	3
Per Dozen.....	$16.50	16 50	16 50	16 50

Half Dozen in a Box

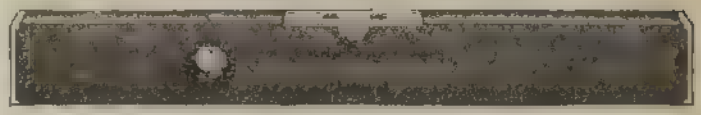


No. 02—STANLEY
HARDWOOD; NOT BOUND; ONE PLUMB; NON-ADJUSTABLE
One Piece Polished Stock; 1⅜x3⅛ in.; Brass Lips; Proved Glasses.

Lengths, Inches..	24	26	28	30
Weight Each, lbs	2¼	2⅜	2⅝	2¾
Per Dozen.....	$20 00	20 00	20 00	20 00

Half Dozen in a Box

PLUMBS AND LEVELS



No. 03—STANLEY
HARDWOOD; NOT BOUND; ONE PLUMB; NON-ADJUSTABLE
One Piece Polished Stock, 1⅜x3⅛ in.; Brass Tips; Proved Glasses.

Lengths, Inches..	24	26	28	30
Weight Each, lbs...	2¼	2⅛	2¾	3
Per Dozen.....	$26 50	26.50	26 50	26 50

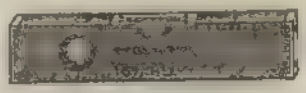
Half Dozen in a Box

The Following are Especially Adapted for use by Millwrights, Plumbers, or for any work where a Level of greater length and cross-section cannot be readily used. These Levels are not adjustable.

No. 104—STANLEY
HARDWOOD; NOT BOUND; ONE PLUMB; NON-ADJUSTABLE.
One Piece Polished Stock, 1¼x2⅛ inches; Proved Glasses.

Lengths, Inches..	12	14	16	18
Weight Each, ozs..	13	15	17	19
Per Dozen.....	$11.50	11 50	11.50	11 50

One Dozen in a Box

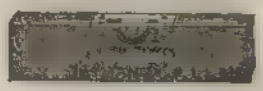


No. 104½—STANLEY
HARDWOOD; NOT BOUND; ONE PLUMB; NON-ADJUSTABLE
One Piece Polished Stock, 1¼x2⅛ in.; Brass Tips; Proved Glasses.

Lengths, Inches..	12	14	16	18
Weight Each, lbs..	1	1⅛	1¼	1¼
Per Dozen.....	$17.50	17 50	17.50	17.50

One Dozen in a Box

LEVELS ONLY



No. 102—STANLEY
HARDWOOD; NOT BOUND; NON-ADJUSTABLE.
One Piece Polished Stock, 1¼x2⅛ in.; Proved Glasses.

Lengths, Inches..	10	12	14	16
Weight Each, lbs..	⅝	⅞	1	1⅛
Per Dozen.....	$7 70	7.70	7.70	7.70

No. 103

Lengths, Inches...	16	20	22	24
Weight Each, lbs...	1⅛	1¼	1⅜	1½
Per Dozen.....	$10.50	10.50	10.50	10.50

One Dozen in a Box

HARVEST
A General Purpose Household or Farmers Level.

Per Dozen
No. 200—12 inches Long; ⅞x1⅛ inch Cherry Stained Birch Stock; Brass Top Plate; Two Side Views; Weight Each ⅝ lb.. $2 80
Half Dozen in a Box

SOUTHINGTON
ADJUSTABLE POCKET LEVEL

Per Dozen
No. 601—Double Pointed Highly Finished Rosewood Stock, Brass Tipped Top and Bottoms at each End. Accurately Adjusted Glasses; 9 inches Long; 1⅜ inches Deep; ¾ inches Wide. Weight Each 7-16 lbs.; Weight per Dozen 3⅛ lbs.. ..... $37 00
Half Dozen in a Box

HOUSEHOLD

Accurate, Durable and Well Finished; Made Small so can be Conveniently Carried in the Pocket.

Per Dozen
No. D200—6 inches Long; ⅝x1 inch Polished Genuine Rosewood Stock; Brass Top Plate; Two Side Views; Weight, Each ⅛ lb.; Weight per Dozen 1⅛ lbs.... ..... $4.50
One Dozen in a Box

STEEL PLUMBS AND LEVELS

★DIAMOND EDGE

Stocks—The Stocks of these Levels are made throughout of Best Quality Cold Rolled Steel, Substantially put together. The Frame is Electrically Welded instead of being Riveted, thereby making it more Secure. The Webs of the Stocks are Riveted to the Frame and made to Stand Hard usage. Guaranteed not to Warp or get out of True and will give entire Satisfaction. The Webs of the Stocks are Oxidized Copper finish, the Frame Handsomely Nickel Plated and Polished.

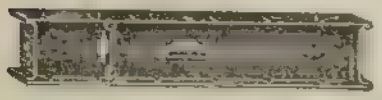
Vials—Vials in all these Levels are provided with a new adjustment. They can easily be placed in any position and securely fastened by the Two Small Screws which connect with a Steel Nut that is fastened to the stock beneath the Vial Ring and a slight pressure with a Small Screw Driver releases or fastens the Vial Ring. It is Metal to Metal and is entirely reliable. Each Glass in both Plumb and Level is Set in Plaster and Enclosed in a Metal Case and held in place at each End by an Adjusting Screw. A very delicate Adjustment is thus obtained. The Glasses in all ★DIAMOND EDGE Levels are Tested and Marked with Two Indelible Lines, between which the Bubble can be readily seen from above, on either side, or when working Overhead.

★DIAMOND EDGE

BABY

Level Only, Without Plumb

No. DEB—Cold Rolled Steel, Oxidized Finish; Length 6¼ inches; Height 1⅝ inch; Weight per Dozen 4 lbs **$4.50**
Half Dozen in Box



★DIAMOND EDGE

No. DEX1

Two Vial Plumb and Level.

Lengths, In.	14	16	18	20	22	24
Weight Each, lbs.	1¾	2	1¾	2	2¼	2½
Wt. Doz., lbs.	21	24	21	24	27	30
Per Dozen	$17.00	17.00	17.00	18.50	20.00	20.00

One in a Box

★DIAMOND EDGE

No. DEX2—

INCLINOMETER

Two Vial—One Ring; Adjustable

Plumb and Level Vial; Level Glass, with Ring is Graduated in Degrees and One Inch Rise per foot, so that measurements of Angles may be determined when necessary.

Lengths, In.	18	20	22	24
Weight Each, lbs.	2⅛	2¼	2½	2¾
Wt. Doz., lbs.	24	27	30	33
Per Dozen	$24 00	24 00	28 00	28 00

One in a Box

★DIAMOND EDGE

No. DEX3

INCLINOMETER

Three Ring; Adjustable

Plumb, Level and Incline—Incline Vial is Graduated in Degrees and One Inch Rise per foot so that measurements may be determined when necessary without disturbing the Level Vial.

Lengths, In.	26	28	30
Weight Each, lbs.	2¾	3	3½
Weight per Dozen, lbs.	32	36	39
Per Dozen	$36 00	36.00	36.00

One in a Box

No. DEX4—INCLINOMETER

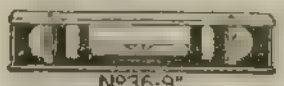
Three Vial and One Adjustable Ring

Two Plumb Vials; One Level Vial, and Level Vial with Graduated Ring, Graduated in Degrees and One Inch Rise per foot, so that measurements of Angles may be determined when necessary.

Lengths, Inches	26	28	30
Weight Each, lbs	3	3¼	3½
Weight Dozen, lbs	36	39	42
Per Dozen	$32 00	32.00	32 00

One in a Box

IRON PLUMBS AND LEVELS



Style of 6 and 9 in.

Style of 12 to 24 in.

No. 36G.—STANLEY

GROOVED BOTTOM

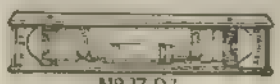
Tops and bottoms milled and wet ground to insure two perfectly parallel surfaces. The glasses are so set that either surface may be used to level or plumb. They are set in metal cases which fit accurately on supports cast in the frame of the level. The cases are held on the supports by means of eccentric cone centers at each end, with screw adjustment.

To adjust the glasses, slacken the screws, insert paper between the case and the support that will bring the bubble to the proper position, tighten the screw and the glass is held firmly in place.

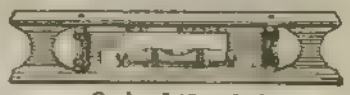
Japanned Cast Iron Frame; Nickel Plated Trimmings; Two Plumb and One Level Glass; Proved Glasses.

Length, In.	6	9	12	18	24
Wt. Each, lbs.	⅛	1¼	1⅞	3	4¼
Per Dozen	$25 50	30 00	37 50	45 00	51 00

One in a Box



Style of 6 and 9 in.



Style of 12 to 24 in.

STANLEY

No. 37—FLAT BOTTOM

Tops and bottoms milled and wet ground to insure two perfectly parallel surfaces. The glasses are so set that either surface may be used to level or plumb. They are set in metal cases which fit accurately on supports cast in the frame of the level. The cases are held on the supports by means of eccentric cone centers at each end, with screw adjustment.

To adjust the glasses, slacken the screws, insert paper between the case and the support that will bring the bubble to the proper position, tighten the screw and the glass is held firmly in place.

Full Nickel Plated Cast Iron Frame; Two Plumb and One Level Glass; Ground Glasses; Glasses protected with Metal Shell or Cover; when the Level is not in use this Metal Cover can be turned so as to completely protect the Glass from Damage.

Length, In.	6	9	12	18	24
Wt. Each, lbs.	⅛	1¼	1⅞	3	4¼
Per Dozen	$35 50	42 00	47 50	56.00	66 00

One in a Box

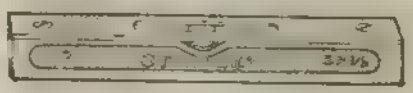
No. 37G—GROOVED BOTTOM

For Leveling Shafting, Pipe, etc.; Used also on Flat Surfaces.

Length, In.	6	9	12	18	24
Wt. Each, lbs.	⅛	1¼	1⅞	3	4¼
Per Dozen	$35 00	42.00	47.50	56.00	66 00

One in a Box

MACHINISTS IRON LEVELS



STANLEY

CAST IRON STOCK; STEEL TOP

Full Nickel Plated; Machined and Polished Faces; Top Screwed to Stock; Bulb Set in Plaster; Proved Glass.

Nos.	38¼	39½
Length, inches	4	6
Weight Each, lbs.	5/16	⅜
Per Dozen	39.50	11.00

Half Dozen in a Box

STANLEY SOUTHINGTON

Mitered Ends; All Edges ground True and Smooth.

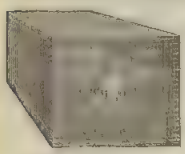
Per Dozen

No. 700—Japanned and Polished Cast Iron; Adjustable Glass; Length 6 inches; Weight Each ⅝ lb.; Weight per Dozen 6 lbs. . . . **$7.50**
Half Dozen in a Box

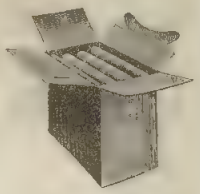
Lowest Market Prices Upon Request

DYNAMITE

DU PONT



Put up in Strong Paper Cartridges which, Previous to Filling, are Dipped in Melted Paraffine. The Smaller Sizes, Having a Diameter of 1¼ inches and under, are Packed in Ten-pound Boxes. Five of These are Enclosed in a Strong Wood Case, Making a Convenient Fifty-pound Package. Larger Sizes—1½ inches and over—are Packed Loose, Fifty Pounds to the Box.

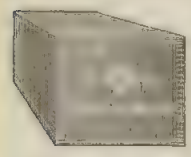


DUPONT RED CROSS DYNAMITE

We Recommend **Red Cross** Dynamite as the Ideal All-The-Year-Round Explosive. Best Known -Safer to Handle. Does not Require Thawing Except in Extremely Cold Weather.

Note—Use Nothing Weaker than a No. 6 Detonator with Red Cross Dynamite.

Low Freezing Ammonia Extra		Per Pound	
✣ No. LG2B	—33%	$. .	For Moderately Hard Rock, Copper, Lead and Other Ores, Stumps and Ice.
✣ No. LG2	—40%	....	
✣ No. LG2XX	—50%	....	For Hard Rock, Ores and Iron.
✣ No. LG1	—60%		For Extremely Hard Rock, Ores, Breaking Iron and Steel, and Submarine Blasting.



DUPONT RED CROSS FARM POWDER.

This Red Cross Powder is a High Grade Explosive Intended for Use in Sub-Soiling, Dry-Ditching or Stump Blasting where the Soil is Dense, which affords Good Resistance.

Put Up in Strong Paper Cartridges, which, Previous to Filling, are Dipped in Melted Paraffine Packed Loose, Fifty Pounds to the Box.

	Per Pound
✣ Dupont Red Cross Farm Powder	$ ...

DUPONT RED CROSS STUMPING POWDER

This Red Cross Stumping Powder is Intended for Boulder Blasting or Stump Blasting in Sandy Soil, Requiring a Quicker Powder than Farm Powder.

Put up in Strong Paper Cartridges, which, Previous to Filling, are Dipped in Melted Paraffine. Packed Loose, Fifty Pounds to the Box.

	Per Pound
✣ Dupont Red Cross Stumping Powder	$. ..

DUPONT STRAIGHT NITRO GLYCERINE

This Straight Nitro-Glycerine Dynamite is Only Recommended where a Very Quick Explosive is Desired.

Nitro-Glycerine		Per Pound	
✣ No. G3X	30%	$. ..	For Moderately Hard Rock, Copper, Lead and Other Ores; Stumps and Ice
✣ No. G2B	33%		
✣ No. G2	—40%		For Hard Rock, Stumps and Boulders.
✣ No. G2XX	50%	...	For Extremely Hard Rock, Ores, Breaking Iron and Steel, and Submarine
✣ No. G1	—60%	...	Blasting.

DUPONT GELATINE DYNAMITE

Particularly Adapted for Use in Wet Work and in Places with Poor Ventilation Owing to Its Water Resisting Qualities and Freedom from Objectionable Fumes.

Gelatin		Per Pound	
✣ No. DG2B	—35%	$....	For Extremely Hard Rock, Ores, Breaking Iron and Steel; Driving Tunnels, Sinking Wells and Shafts, and Submarine Blasting.
✣ No. DG2	—40%		
✣ No. DG2XX	—50%		
✣ No. DG1	—60%		
✣ No. DG1A	—75%		

DUPONT LOW FREEZING DYNAMITE R. R. P.

This is a Low Grade High Explosive which Ranks Between Blasting Powder and Dynamite. **Very Valuable for** Shooting in Open Work that is Comparatively Dry, Especially in Loose Slate Rock.

To Detonate or Explode this Dynamite Always Use a Cartridge of 40% Nitro-Glycerine Dynamite as a Primer.

Put up in Strong Paraffined Paper Bags Holding 12½ lbs. each, Four Bags to a Fifty Pound Case.

	Per Pound
✣ Dupont Dynamite, R. R. P.	$ ...

Items Marked ✣ Not Carried in Stock, Can Only be Furnished by Shipping Direct From Magazine Nearest to Destination

DYNAMITE

Lowest Market Prices Upon Request

AETNA POWDER COMPANY

Ætna Dynamite is put up in Strong Paper Shells or Cartridges, which, Previous to Filling, are Dipped in Melted Paraffin. The Smaller Sizes Having a Diameter of 1¼ inches and Under, are Packed in Pasteboard Boxes, containing 10 pounds each. Five of these Boxes are enclosed in a Strong Wood Case, which can be as conveniently Handled and Shipped as any other Merchandise. The Larger Sizes, 1½ inches and Over, are Packed Loose, same as Ætna Gelatin.

We can also furnish Ætna Dynamite in 25 Pound Cases, Two Paper Boxes in a Case containing 12½ Pounds each.

Nitro-Glycerine	Per Pound	Low Freezing Ammonia Extra	Per Pound	
✣ No. 4X —25%.....	....	✣ No. L4X 25%....	... $....	For Clay, Shelly Rock, Frozen Earth and Light Work, and Quarries when Rock is to be Split, but not Shattered
✣ No. 3X —30%.....	....	✣ No. L3X —30% . .	....	
✣ No. 2B —33%.....	....	✣ No. L2B —33% ..	....	For Moderately Hard Rock, Copper, Lead and other Ores, Stumps and Ice.
✣ No. 2 —40%.....	....	✣ No. L2 —40%.. ...	....	
✣ No. 2XX—50%.....	....	✣ No. L2XX—50%.....	....	For Hard Rock, Ores and Iron.
✣ No. 1 —60%.....	....	✣ No. L1 —60%.....	....	For Extremely Hard Rock, Ores, Breaking Iron and Steel, and Submarine Blasting.

AETNA CONTRACTORS POWDER

A Substitute for Common Blasting Powder

Ætna Contractors Powder is 50% Stronger than the Best Black Powder, and Safer to Use. It is Adapted for all Kinds of Blasting where Black Powder has Heretofore been Used and is Largely Used by Railroad Contractors and Others in Blasting Seamy Rock, Tough Clays, Hardpan Limestone and Stumps. Always Explode this Powder with a Cartridge of Ætna Dynamite, and see that the Cartridge is Well Braced in the Powder. Never Attempt to Fire it with Fuse Alone. Contractors Powder is Packed in Strong Paper Bags holding 12½ pounds each, Four Bags to a 50 pound Case.

✣ **Ætna Contractors Powder**..... Per Pound ....$....

We Do Not Break Cases

We Positively Cannot Ship Dynamite with Hardware or other Goods

In all Cases where Dynamite is Entered on Order with Hardware, we will Ship it Direct from Nearest Magazine.

This Class of Goods can only be Shipped by Rail. We Cannot Accept any Order to be Forwarded by Passenger Steamer. Steamers having Magazines will accept Black Powder for Shipments, but it is Unlawful for them to carry High Explosive [illegible] Dynamite etc.

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

BLASTING MACHINES

UNITED STATES STANDARD

Used for Exploding Dynamite in Connection with Electrical Exploders.

A Magneto-electric Instrument, Constructed on the W[illegible] and Siemen's Principle, Having a Magnet of [illegible] Shoe Character, Wound with Coils of Insulated Copper Wire.

Each

No. 3—Capacity 1 to 20 holes; Weight about 22 lbs..... **$50 00**
One in a Box

ELECTRICAL EXPLODERS

STANDARD
Best Quality

To be used for Exploding Dynamite with an Electric Battery.

Only the Best Material used in the Manufacture of these Exploders.

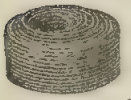
Double Wound Insulation; Quintuple Strength Caps: Cotton Covered Wires. Every Exploder Warranted Perfect.

	Per 100
4 Foot Wire—Weight per Box of 50 1¾ lbs.....	**$10.80**
6 Foot Wire—Weight per Box of 50 2 lbs.....	**12.60**
8 Foot Wire—Weight per Box of 50 3 lbs.....	**14.40**
12 Foot Wire—Weight per Box of 50 4¼ lbs.....	**18.00**
20 Foot Wire—Weight per Box of 50 6½ lbs.....	**25.20**

50 in a box

Exploders Cannot be Shipped with Dynamite

SAFETY BLASTING FUSE



ANCHOR BRAND

Equal to the Well Known Double Tape in its Ability to Stand Hard Tamping and Exposure to Water, and which, Besides this, Should be Better Able to Meet the Extreme Conditions of Climate, Weather and Temperature.

It Does not get Sticky, in Warm Weather or Moist Climate.
It Does not Crack in Cold Weather or Dry Climate.
It will Stand any Climate.
It is very Pliable, and Does not Crack or Break in Uncoiling.
It is Clean and Pleasant to Handle.

Per 1000 Feet

Anchor Brand Fuse, Case Contains 6,000 feet and Weighs about 130 lbs..... **$15.30**

Beaver Brand Fuse, Case Contains 6,000 feet and Weighs about 115 lbs..... **13.50**

Clover Brand Fuse, Case Contains 6,000 feet and Weighs about 120 lbs..... **14.50**

Crescent Brand Fuse, Case Contains 6,000 feet and Weighs about 120 lbs..... **15.30**

ENSIGN BICKFORD & CO. Per 1000 Feet

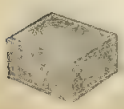
Cotton, Case Contains 6,000 feet and Weighs 125 lbs..... **$13.30**

Single Tape, Case Contains 6,000 ft. and Weighs 125 lbs..... **13.70**

Double Tape, Case Contains 6,000 ft. and Weighs 130 lbs..... **15.50**

Triple Tape, Case Contains 6 000 ft. and Weighs 138 lbs..... **17.20**

BLASTING CAPS



DUPONT

For Dynamite, Superior Quality Blasting Caps Cannot be Shipped with Dynamite.

Per 1000

No. 6—Dupont, 1 [illegible] Aluminate to the M [illegible] **$30.60**
100 in a Metal Box, 5,000 in a Case. Weight per 1,000 3½ lbs.

CAP CRIMPERS AND FUSE CUTTERS

SAFETY

Stamped Steel; Nickel Plated Safety Cap Crimpers and Fuse Cutters Combined: Button Head Rivet; One side of Handle punched to make hole in charge to insert fuse.

Per Dozen

No. 1—Length 5½ inches; Weight per Dozen 2 lbs..... **$7.50**
Loose.

LEADING WIRE

DUPONT

Used in Connection with Blasting Machines and Electrical Exploders.

Per Pound

Leading Wire, In Coils of 500 feet..... **Market Price Only**
Average Weight per Coil 8¾ lbs.

CONNECTING WIRE

F. O. B. Distributing Points
DUPONT

A Pure Copper Insulated Wire, Used for Connecting the Exploders where Several Charges are to be Fired Simultaneously.

Per Pound

Connecting Wire, 2 lbs. on a Spool Containing about 500 feet..... **Market Price Only**

BLASTING PAPER

We do not Print Blasting Paper.

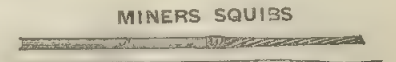
"KEYSTONE" IN ROLL

Extra Quality Waterproof Drab Fiber; Basis 400 pounds to a Ream of 24x36 inches.

REGULAR ROLLS

Nos.	R9	R12
Width, inches	9	12
Weight per Roll, lbs.	5	5
Per Pound	$0.18	.18

MINERS SQUIBS



For Firing Blasts in Coal Mining

DADDOW & BEADLE

Per 1000

No. 1D—(Yellow Label) **Daddow & Beadle,** Burns With a Flame for general use..... **$3 00**

No. 3D—(Red Label) **Daddow & Beadle,** Burns With a Spark, for use in Mines Containing Gas or Fire Damp; also Suitable for general use..... **2.20**
100 in a Pasteboard Box, 10,000 in a Case; Weight per Case 31 lbs.

POWELL

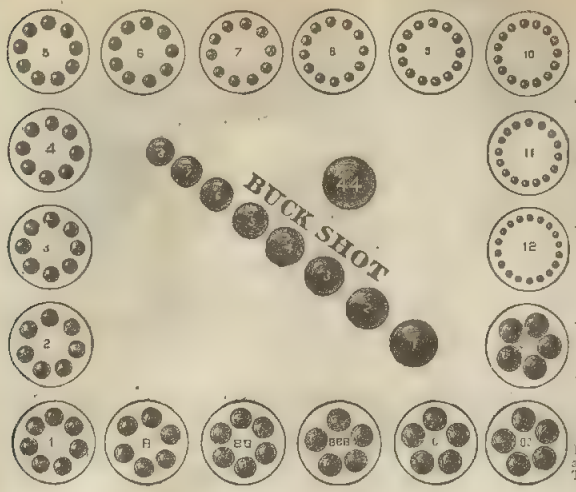
Per 1000

No. 1P—(Yellow Label) **Powell Rocket,** Burns with a Flame, for general use..... **$3.50**

No. 2P—(Red Label) **Powell Gas,** Burns with a Spark, for use in Mines Containing Gas or Fire Damp..... **3.70**

100 in a Pasteboard Box; 10,000 in a Case; Weight per Case 27 lbs.

SHOT



Lowest Market Prices Upon Request

TABLE SHOWING NUMBERS AND FULL SIZES OF BUCK SHOT AND CHAMBERING IN PAPER SHELLS

Buck Shot, Sizes	10 Gauge	12 Gauge	16 Gauge
	Amount of Shot (Pellets) in above Gauge Shells		
No. 1.	★2	2	★1
No. 2.	3	★2	★1
No. 3.	★3	3	2
No. 4.	4	★3	★2
No. 5.	★4	4	3
No. 6.	5	★4	★2
No. 7.	★5	5	4
No. 8.	7	★5	★4

★Figures Denote Loose Fit.

Other Figures Denote Exact Fit.

Buck Shot Should Always Be Loaded in Layers The Number of Shot in a Load is a Matter of Choice and Depends Somewhat on the Length of the Shell Three Layers is a Common Load.

IN 25 POUND BAGS
Improved Patent Finish Drop

Nos.	15 Double Dust,	12	10	9	8	7	6
Diameter, Inches	2-100	5-100	7-100	8-100	9-100	10-100	11-100
Number of Pellets to an Ounce	4858	2200	900	560	380	285	213
Per Bag (25 lbs.)							

Nos.	5	4	3	2	1	B	Air Rifle	BB	BBB	0 T	00 TT
Corresponding N. Y. Nos.											
Diameter, Inches	12-100	13-100	14-100	15-100	16-100	17-100	17½-100	18-100	19-100	20-100	21-100
Number of Pellets to an Ounce	181	163	116	98	79	63	58	53	46	40	32
Per Bag (25 lbs.)											

Chilled Shot, Size 8, 7½, 7, 6, 5, 4, 3 and 1 Only In 25 lbs. Bags

IN 5 POUND BAGS
Improved Patent Finish Drop

Nos.	B	Air Rifle	BB	BBB
Per Bag (5 lbs.)				

IN 1 POUND BOXES; 25 POUNDS IN A CASE
Improved Patent Finish Drop

Nos.	Air Rifle	BB
Per Case		

NEW PROCESS PATENT FINISH BUCK IN 25 POUNDS BAGS

Nos.	8	7	6	5	4	3	2	1
Corresponding N. Y. Nos.	5	4	3	2	1	0	00	000
Diameter, Inches	26-100	28-100	29-100	30-100	32-100	34-100	36-100	38-100
Number of Pellets to a Pound	232	200	166	140	130	113	100	85
Per Bag (25 lbs.)								

IN 5 POUND BAGS

Nos.	8	7	6	5	4	3	2	1
Per Bag (5 lbs.)								

BAR LEAD

	Per Pound
Bar Lead	

25 lbs. in a Box

POCKET KNIVES

EMPIRE

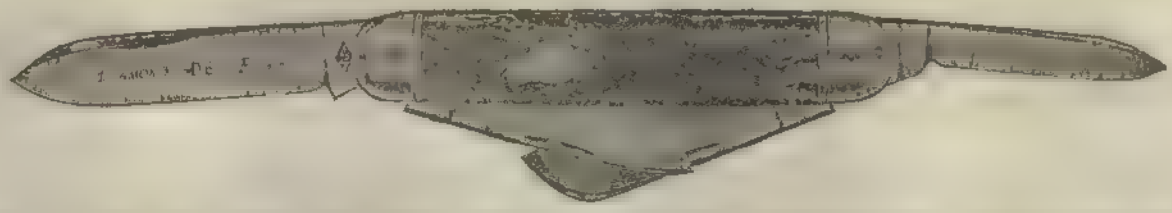
Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

FOUR BLADE JACKS

Cattle Knife; Length 3⅞ inches, German Silver Bolsters; One Large Cup, One Large Sheep Foot, One Small Speying and One Small Pen Blade Full Crocus Polished and Etched, Milled Back, German Silver Lining; German Silver Shield; Weight per Dozen 2¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 4S20¾ST Patent Stag Handle	$22 00	No. 4E20¾ST Patent Stag Handle	$26 00
No. 4S20¾P —Mother of Pearl Handle	44 00	No. 4E20¾P Mother of Pearl Handle	52 00

Half Dozen in a Box



Cattle Knife, Length 3⅞ inches; German Silver Ribbed Bolsters; One Large Spear, One Large Sheep Foot, One Large Speying and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2¾ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 4S98GST—Genuine Stag Handle	$30 00	No. 4E98GST—Genuine Stag Handle	$30.00

Half Dozen in a Box

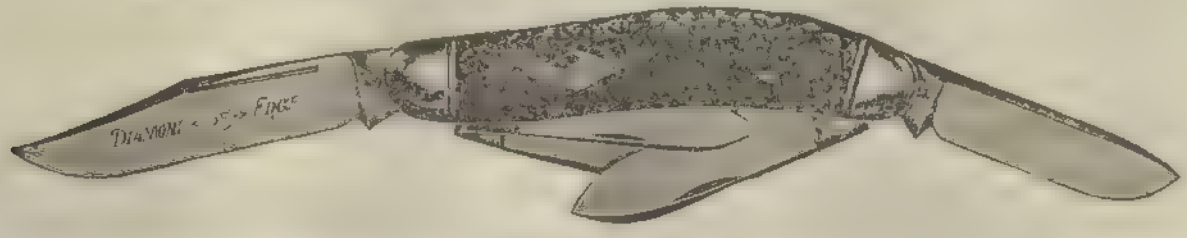
*DIAMOND EDGE

Cattle Knife; Length 4⅛ inches, German Silver Bolsters; One Large Clip, One Large Sheep Foot, One Large Speying and One Small Pen Blade Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 3 lbs.

	Per Dozen
No. 4S13⅝ST—Patent Stag Handle	$29.00

Half Dozen in a Box

FIVE BLADE JACKS



*DIAMOND EDGE

Length 3⅞ inches; German Silver Bolsters; Milled Back; Brass Lining, Diamond Shield; One Large Clip Blade, One Spey Blade, One Spear Blade One Sheepfoot Blade and One Small Pen Blade; Half Polished and Etched, Weight per Dozen 3 lbs.

	Per Dozen
No. 5S218¾ST—Patent Stag Handle	$26.00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

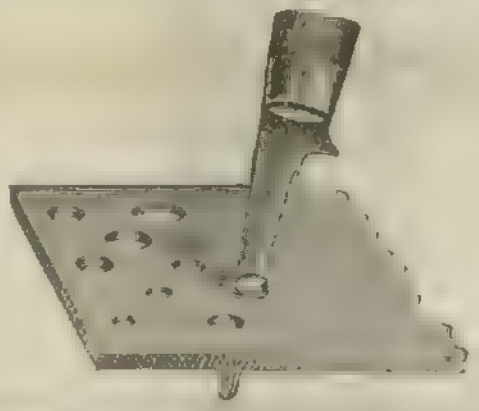
POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

EMPIRE

WITH BELT PUNCH BLADE

The Belt Punch Blade as introduced into our several Patterns of Pocket Knives is of the Latest Style and so Constructed that it will Always Cut a Clean Hole from the Extreme Point Back to the Tang. Made of the Finest Genuine Firth English Steel, Properly Concaved and Ground to a Razor Edge. Will Cut a Perfectly Round or any Special Shape Hole, from ⅛ of an Inch to as large as may be necessary to Accomplish the Work Desired.



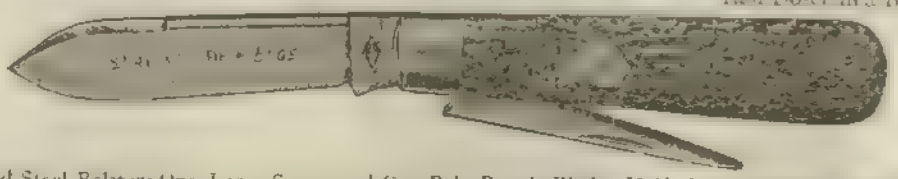
The range of work it will Perform is Practically Unlimited. It is Especially Valuable in the Place of the Old Style Belt Punch and does the work Better in Less Time and in Places Where a Belt Punch Would be Impracticable. It is an Absolute Necessity with Horsemen, Farmers, Saddlers, Liverymen, Engineers, Teamsters and all Mechanics Who Come in Contact with Leather Work or Leather and Rubber Belting.

*DIAMOND EDGE

Length 3 inches; Polished Steel Bolster; One Belt Punch Blade; Iron Lining; Weight per Dozen 12 ozs.

	Per Dozen
No. PK1 —Cocobolo Handle	$5 00

Half Dozen in a Box



Length 3½ inches; Polished Steel Bolster; One Large Spear and One Belt Punch Blade; Half Crocus Polished and Etched; Iron Lining; German Silver Shield; Weight per Dozen 1⅓ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S2½ —Cocobolo Handle	$12 70	No. 2E2½ —Cocobolo Handle	$13. 00
No. 2S2½ST—Patent Stag Handle	12 70	No. 2E2½ST—Patent Stag Handle	13 00

Half Dozen in a Box

Length 3½ inches; Polished Steel Rat Tail Bolster, One Large Spear and One Belt Punch Blade, Half Crocus Polished and Etched, Brass Lining German Silver Shield; Weight per Dozen 2 lbs.

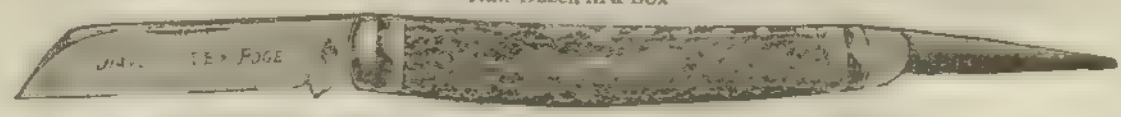
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S37E —Ebony Handle	$14 00	No. 2E37E Ebony Handle	$14.00
No. 2S37ST —Patent Stag Handle	14.00	No. 2L37ST Patent Stag Handle	14.00

Half Dozen in a Box

Length 3¼ inches, German Silver Bolsters, One Large Spear and One Belt Punch Blade, Half Crocus Polished and Etched, Brass Lining German Silver Shield; Weight per Dozen 2¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S265ST —Patent Stag Handle	$18 00	No. 2E265 Cocobolo Handle No. 2L265ST Patent Stag Handle	$13 00 18 00

Half Dozen in a Box



Congress, Length 3¾ inches, Polished Steel Bolsters, Two Large Cutters, One Large Coping and One Belt Punch Blade; Half Crocus Polished and Etched Iron Lining; German Silver Shield; Weight per Dozen 2 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S75¼ST Patent Stag Handle	$16.00	No. 2E75¼ST Patent Stag Handle	$16 00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

EMPIRE

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges. Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

WITH BELT PUNCH BLADE

Length 3¼ inches, German Silver Bolsters, One Large Clip, One Small Sheep Foot and One Belt Punch Blade, Half Crocus Polished and Etched Brass Lining; German Silver Shield; Weight per Dozen 1½ lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S68¼E —Ebony Handle	$21 00	No. 3E68¼E —Ebony Handle	$21 00
No. 3S68¼ST—Patent Stag Handle	21 00	No. 3E68¼ST—Patent Stag Handle	21.00

Half Dozen in a Box

★DIAMOND EDGE

Length 3⅝ inches; Scored German Silver Biased Bolsters; Brass Lining; Diamond Shield, One Large Clip, One Spey and One Leather Punch Blade Half Polished and Etched; Weight per Dozen 1¾ lbs.

	Per Dozen
No. 3S384¼RO—Red Onyx Pyralin Handle	$30 00
Same as Above, Except Small Leather Punch Blade Instead of Leather Punch Blade	Per Dozen
No. 3S384¼ST—Patent Stag Handle	$26 00
No. 3S384¼J —Golden Pearl Pyralin Handle	27.00

Half Dozen in a Box

★DIAMOND EDGE

Length 3⅝ inches, Scored German Silver Biased Bolsters, Brass Lining, Diamond Shield, One Large Spear, One Spey and One Leather Punch Blade Half Polished and Etched; Weight per Dozen 1¾ lbs.

	Per Dozen
No. 3S448¼HC —Gray Horn Pyralin Handle	$22 00
Same as Above, Except One Large Spear and One Leather Punch Blade	Per Dozen
No. 2S448¼HC—Gray Horn Pyralin Handle	$21.60

Half Dozen in a Box

Cattle Knife. Length 3⅝ inches, German Silver Bolsters, One Large Spear, One Small Spaying and One Belt Punch Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2¼ lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S109¼E —Ebony Handle	$23 00	No. 3E109¼E —Ebony Handle	$23 00
No. 3S109¼ST—Patent Stag Handle	23.00	No. 3E109¼ST—Patent Stag Handle	23 00

Same as Above, Except 3⅜ inches Long	Per Dozen
No. 3S67¼E —Genuine Ebony Handle	$21 00
No. 3S67¼ST—Patent Stag Handle	21.00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

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EMPIRE

WITH BELT PUNCH BLADE

Length 3⅝ inches, German Silver Bolsters; One Large Spear, One Small Sheep Foot and One Belt Punch Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S38E —Ebony Handle	$23 00	No. 3E38E —Ebony Handle	$23 00
No. 3S38ST—Patent Stag Handle	23.00	No. 3E38ST—Patent Stag Handle	23.00

Half Dozen in a Box

Length 3⅝ inches; German Silver Bolsters, One Large Clip, One Small Sheep Foot and One Belt Punch Blade; Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S183¼ST –Patent Stag Handle	$18 00	No. 3E183¼ST Patent Stag Handle	$23.00

Half Dozen in a Box

*DIAMOND EDGE

Length 3½ inches; German Silver Bolsters; Milled Back German Silver Lining, Diamond Shield, One Large Clip, One Small Clip and One Leather Punch Blade; Full Crocus Polished; Weight per Dozen 2 lbs.

	Per Dozen
No. 3S447¼ST—Patent Stag Handle	$28 00

Half Dozen in a Box

Cattle Knife; Length 3⅝ inches; German Silver Bolsters, One Large Clip, One Large Speying and One Belt Punch Blade; Half Crocus Polished and Etched; Brass Lining, German Silver Shield, Weight per Dozen 2 ¼ Lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
3S3⅝ST –Patent Stag Handle	$19 00	No. 3F39⅝ST—Patent Stag Handle	$25.00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

LAWN MOWERS.

PHILADELPHIA.

STYLE A, HIGH WHEEL.

Made from highest grade steel; all parts mechanically perfect; for use on large lawns or in parks; will stand the strain of constant usage.

Fitted with a four-blade 6½-inch cylinder, 10-inch drive wheels and vanadium crucible steel cutting blade; train of three gears make both wheels drivers; runs exceptionally easy and for durability is unsurpassed.

Finished attractively in aluminum and gold bronze with blue or red striping; handle is natural finished hardwood and varnished.

Nos	A15	A17	A19	A21
Cut, inches	15	17	19	21
Weight, lbs	70	72	74	78
Each	$25.00	28.00	31.00	34.00

One in a box.

STYLE C.

Made throughout of highest grade steel; all parts are mechanically pefect; a thoroughly reliable machine, well made and easy running.

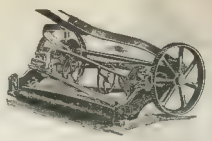
Fitted with four-blade 5¼-inch cylinder; 8½-in., drive wheels and vanadium crucible steel cutting blade; geared both sides; single pinion.

Finished attractively in aluminum and gold bronze; handle is natural finished hardwood, varnished.

Nos	C16	C18	C20
Cut, inches	16	18	20
Weight, lbs	59	63	65
Each	$19.00	21.00	23.00

One in a box.

STYLE E.



Made throughout from highest grade steel; all parts are mechanically perfect; a reliable machine, well made and easy running.

Fitted with four-blade 6½-inch cylinder, 10-inch drive wheels and vanadium crucible steel cutting blade; train of three gears make both wheels drivers; has removable box caps to take out cylinders for sharpening

Finished attractively in aluminum and gold bronze with blue or red striping; handle is natural finished hardwood, varnished.

Nos.	E15	E17	E19	E21
Cut, inches	15	17	19	21
Weight, lbs	74	76	81	82
Each	$25.00	28.00	31.00	34.00

One in a box.

STYLE K.

Made from high grade steel throughout; all parts are mechanically perfect; runs easily, well made and is thoroughly reliable.

Has five-blade 6½-inch cylinder; 10-inch drive wheels; vanadium crucible steel cutting blade; geared both sides; single pinion.

Finished attractively in aluminum and gold bronze; handle is natural finish hardwood, varnished

Nos	K14	K16	K18	K20
Cut, inches	14	16	18	20
Weight, lbs	63	66	72	75
Each	$20.00	22.00	24.00	26.00

One in a box.

LAWN MOWER REPAIRS.

REPAIRS FOR F. O. K. BALL BEARING, RIVERSIDE ACHILLES AND KEYSTONE LAWN MOWERS.

	Each
No. T—Pinion, right hand	$0.20
No. V—Pinion, left hand	.20
No. 99—Pawls	.05

REPAIRS FOR CLIPPER AND PATHFINDER LAWN MOWERS.

No. E—Pinion, right hand	$0.20
No. K—Pinion, left hand	.20
No. 99CP—Pawls	.05

REPAIRS FOR PHILADELPHIA LAWN MOWERS, STYLE K AND C.

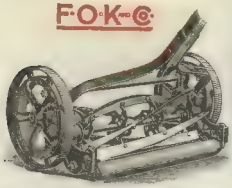
	Each
No. 811—Pinion, right hand	$0.25
No. 812—Pinion, left hand	.25
No. 91—Pawls	.05

REPAIRS FOR PHILADELPHIA LAWN MOWER, STYLE E.

No. E15—Pinion	$0.30

For Lawn Mower Oil see page 468.

F·O·K·-·C·



BALL BEARING

Highest grade and modern construction; combines such essential features as simplicity of mechanism, durability, attractive appearance and general excellence.

Machine is fully geared; extra quality steel balls are protected by dust proof cover.

Has five-blade cutting cylinder six inches in diameter made from highest grade crucible steel; open drive wheels are eleven inches in diameter

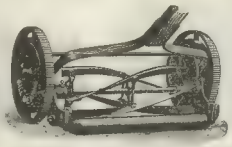
Body and handle braces are gilt finish, sides and edge of blade are striped red, face of wheels are finished in blue enamel, handle is natural finished and varnished.

Nos.	BB14	BB16	BB18
Cut, inches	14	16	18
Shipping weight, pounds	54	56	58
Each	$13.20	13.70	14.20

One in a box.

ACHILLES.

BALL BEARING.



A thoroughly reliable machine; light running, modern construction and high grade throughout.

Fitted with high grade polished steel balls and dust-proof caps; has ten-inch traction wheels and six-inch cutting cylinder with four blades; blades are crucible tool steel hardened and tempered in oil.

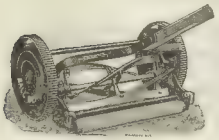
Finished in aluminum bronze and red enamel with gilt trimmings, handle is natural finished and varnished.

Nos.	AB14	AB16	AB18	AB20
Cut, inches	14	16	18	20
Shipping wt., lbs.	48	50	52	54
Each	$9.20	9.70	10.20	10.70

One in a box.

RIVERSIDE.

BALL BEARING.



A strictly high grade machine, light running and noiseless.

Has nine inch traction wheels with raised rims; large cutting cylinder with four crucible steel blades hardened and tempered in oil.

Cylinder shaft runs on ball bearings; continuous shearing and self sharpening.

Finished attractively in aluminum bronze and red enamel with gilt trimmings, handle is natural finished and varnished.

Nos.	R14	R16	R18
Cut, inches	14	16	18
Shipping weight, pounds	46	48	50
Each	$7.70	8.20	8.70

One in a box

CLIPPER.

PARALLEL BEARING.

An easy running and well made mower. Has 8⅝ inch open wheels; 5½ inch cutting cylinder with three crucible steel blades.

Has highest grade brass bearings accurately adjusted and is continuous shearing and self sharpening.

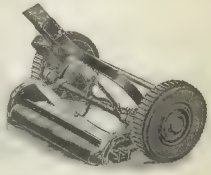
Finished in aluminum with gilt trimmings, handle is natural finished and varnished

Nos.	CP14	CP16	CP18
Cut, inches	14	16	18
Shipping weight, pounds	37	39	41
Each	$5.00	6.40	6.80

One in a box.

NEW PATHFINDER.

PARALLEL BEARING.



A good quality mower, serviceable and easy running. Has 8⅝-inch traction wheels; 5¼-inch cutting cylinder with three blades, well made and accurately adjusted

Finished neatly in red and green enamel paint, natural finished handle is varnished.

Nos.	P12	P14	P16
Cut, inches	12	14	16
Shipping weight, pounds	37	39	41
Each	$4.00	4.30	4.60

One in a box

FOREST GLEN.

Made from high grade steel; built for hardest service; light running. 9-inch drive wheels, 4-blade cutting reel 6 inches in diameter, screw adjustment, brass bearings for reel shaft, raised rim protects the gearing from dirt. Finish, gold with light green wheels. Handle is natural finished hardwood, varnished.

Nos.	FG14	FG16	FG18
Cut, inches	14	16	18
Weight, lbs	45	46	47
Each	$12.00	13.00	14.00

One in a box.

NOTE—For Lawn Mower Oil, See Page 468.

LAWN TRIMMERS.

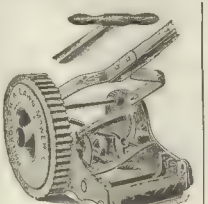
NORTHWESTERN.

For trimming around the edges of flower beds, along fences and wherever a lawn mower cannot be used. Any work that can be done with hand shears can be done with these machines and much labor as well as time saved. Having long handles, no stooping is required.

Northwestern -Stamped steel frame, painted; tempered steel blades and spring; full length wood handles adjustable to any angle suiting the convenience of the user; length of blades, 7 inches, weight each, 8¼ lbs Each .$2.80

In bulk.

PHILADELPHIA.



The Philadelphia lawn trimmer has all of the excellent qualities of the Philadelphia lawn mower. It has but one drive wheel and is specially adapted for mowing close to the edge of sidewalks and fences, around trees or in corners where it is impossible to reach with a lawn mower.

Each

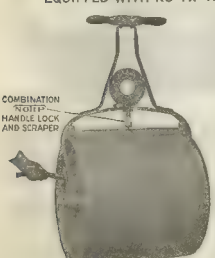
Philadelphia—Cuts 6½ inches; handsomely finished in aluminum and bronze; weight each, 21 lbs. **$12.00**

One in a box.

HAND LAWN ROLLERS.

DUNHAM'S WATER WEIGHT.

EQUIPPED WITH NO-TIP HANDLE LOCK.



The weight of this roller can be regulated to exactly suit a soft lawn, firm turf or driveway and tennis court. It can be quickly filled with the garden hose

The edges of the drum are rounded back to prevent cutting lawn or tennis court. All seams are perfectly smooth.

Drum is painted a bright green; frame is painted red with a hardwood varnished top handle. Each

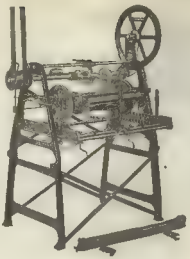
No. WB3—Lawn Roller; one section; diameter, 14 inches; length, 20 inches; weight empty, 60 lbs.; weight filled with water, 175 lbs **$11.00**

No. WB5 -Lawn Roller: one section, diameter, 18 inches; length, 24 inches; weight empty, 85 lbs.; weight filled with water, 300 lbs **13.00**

No. WB7 -Lawn Roller: one section; diameter, 24 inches; length, 24 inches; weight empty, 110 lbs.; weight filled with water, 500 lbs **17.00**

LAWN MOWER GRINDERS.

IDEAL, POWER.



The only machine that will positively grind the reel knives of a lawn mower to fit the straight blade, in case the latter should be sprung or bent. This is one of the most important features of lawn mower grinding. Will also grind the spiral knives to fit a crooked lower blade Any intelligent person can sharpen a lawn mower with accuracy in one-half the time required by the old method

GENERAL DESCRIPTION.

The grinding wheel is carried by an arm with bearings on the main shaft. The arm is counterbalanced by a weight at the rear of the machine, and the grinding wheel is free to move up and down, and is carried along the main shaft by means of the feed screw and sliding head. At the front of the arm is carried a hook under the straight blade of the lawn mower and holds the grinding against the reel knife. This hook is adjusted by means of the adjusting screw at the front, making possible a very fine adjustment. By pushing the shaft which carries the hook downward, it can be given a quarter turn, which allows the arm to be raised when changing from one knife to the next. The spring returns the hook to the same position. At the side of the grinding wheel there is a steel finger which passes around to the face of the grinding wheel and keeps the reel knife in the proper position while grinding. It is the same principle as sharpening a spiral cutter. It is adjustable to follow up the wear of the wheel, and can also be adjusted along the circumference of the grinding wheel. Has ball bearing main shaft, special steel ground and polished, 1¼ inch in diameter. and is key seated so as to drive the hub mounted between the bearings of the arm. The hub carries a sprocket which drives the grinder wheel by means of a steel chain. Chains are high grade steel bicycle chains; feed screw is ¾ inch, carried in babbited bearings and driven by a round leather belt over large sheave pulleys. The feed is thrown in and out by means of a trip lever which engages a sectional nut with the square thread of the feed screw. The belt is shifted by means of an improved belt shifter which locks itself in either position.

DIMENSIONS, ETC.

Width of grinder, 30 inches; will take in any mower with 24 inch blades; Norton Alundum grinding wheels, 5 inches in diameter, ⅝ inch face; width between frames, 30 inches; travel of grinding wheels, 24 inches; height from floor to center of main shaft, 38 inches; height over all, 53 inches; without sub-base, deduct 18 inches; length over all, 44 inches; sub-base, 22 inches by 24 inches at base; tight and loose pulleys, 4 inches diameter by 1¾ inch face; speed of pulleys, 1,400 revolutions per minute; speed of large hand wheel, 200 revolutions per minute; size of electric motor required, ¼ to ½ horse power.

F. O. B Factory, Plymouth, Ohio.

Each

***No. SPB—**With sub-base, shipping weight approx., 215 lbs. **$75.00**

*For shipment from factory only.

GENUINE PHILADELPHIA.

TWO MEN OR PONY.

Can be drawn by two men or by a small pony, therefore can be used where trees and shrubbery will not admit a horse.

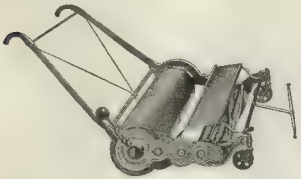
Its construction is simple and, with its solid frame, the revolving cylinder can be removed by taking off the two box caps, making it easy to repair. Every machine is guaranteed to do good work.

12-inch driving wheels, 6¾-inch cylinder with 4 corrugated steel blades. Bottom knife is adjustable to cylinder.

F. O. B. Philadelphia, Penn.

Cut, inches	25	30
Weight, pounds	150	155
Each	$50.00	75.00

DRAFT POLE, PONY.



This style is standard the world over, being used on government grounds, public parks and large lawns throughout the country.

The original Philadelphia Pony Mower, with solid, revolving, 4-knife cutter.

Every machine warranted.

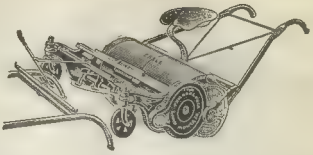
The 30-inch size is made with either open or closed cylinder. In ordering this size be sure to designate which is wanted.

The 35-inch size is made only with open cylinder.

F. O. B. Philadelphia.

Cut, inches	30	35
Weight, pounds	450	500
Each	$100.00	120.00

HORSE.



Made with added weight of iron for strength, increased diameter of cylinder for draft and large shafting and journals for durability. Has patent adjustable boxes for taking up the wear of journals, wrought iron front and back girths, making the frame solid; cutting cylinder is stationary; bed knife is adjustable to cylinder; cylinder blades are riveted to the spiders.

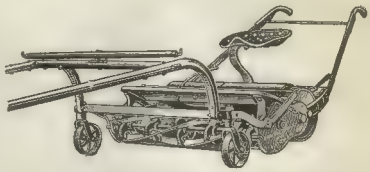
Five cylinder blades, height of driving roller 14 inches, diameter of cylinder 7¼ inches.

Equipped with seat, shafts and side draft attachment. (No reduction is made without seat and shafts.)

F. O. B. Philadelphia.

Cut, inches	30	35	40
Weight, pounds	645	670	710
Each	$100.00	125.00	150.00

HORSE.



The best Horse Lawn Mower made. Has wrought iron frame and caster roller attachment which can be raised or lowered at the will of driver while machine is in motion. The spiral blades are bolted on the cylinder frame and adjusted by set screws, an adjustment which no other machine has.

Open cylinder with four knives, height of driving roller 13⅜ inches, diameter of cylinder 8¼ inches, cylinder adjustable to stationary knife.

Has steel shaftings, brass bushings, etc., and, when durability is considered, it is the cheapest mower on the market. Guaranteed to give satisfaction

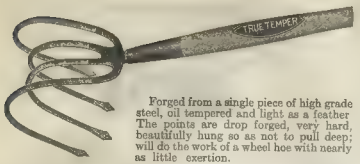
Equipped with seat and shafts only.

F. O. B. Philadelphia.

Cut, inches	36
Weight boxed, pounds	650
Each	$160.00

NOTE—For Lawn Mower Oil, see page 468.

FEATHER-WEIGHT.



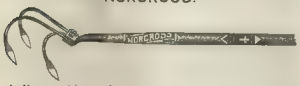
Forged from a single piece of high grade steel, oil tempered and light as a feather. The points are drop forged, very hard, beautifully hung so as not to pull deep; will do the work of a wheel hoe with nearly as little exertion.

Per Dozen

No. FW4—4 broad oval prongs; 4½-foot ash handle glass finished; gold and black finished prongs; shipping weight, approximately 30 pounds; per dozen **$8.70**

Half dozen in a bundle.

NORCROSS.



An indispensable tool for close gardening, routs smallest sprouting weeds and stirs the soil, works between rows without injuring the most delicate plants. Has detachable socket by means of which the handle may be disconnected and the cultivator hoe used as a wheel attachment. Made of best malleable iron; prongs are spring steel; handle is made of best quality white ash.

Per Dozen

No. 33—Norcross; 3 prong; length of handle, 4 ft.; weight per dozen, 24 pounds..... **$10.00**

Half dozen in a bundle.

Latest improvement over all other hand garden tools. The socket and clamp plates are the toughest of malleable. The prongs are spring steel; handle of best quality white ash. The shovels are forged from steel prongs, and cannot work loose, being clamped firmly by four strong bolts. No thumb screws are used, all parts are detachable.

Works between rows, or center shovel can be removed and the row straddled. It pulls weeds and pulverizes the soil thoroughly, giving level cultivation. This tool can be used where a wheel plow is not practical.

Per Dozen

No. 55—Norcross; 5 prong; length of handle, 4 feet; weight per dozen, 40 pounds (without universal attachment)..... **$15.00**

One-half dozen in a bundle

NORCROSS UNIVERSAL CONNECTIONS.

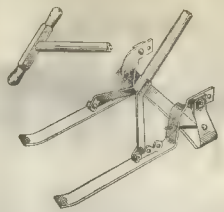
Engages the two middle bolts as shown in above cut and provides for attaching cultivator to any style of wheel plow. The front extension fits Iron Age, Planet Jr., and other slotted frame plows; rear extension fits all Vertical Leg Plows.

Per Dozen.

No. NUC—Malleable iron..... **$1.20**

In bulk.

EASY GLIDE.



Very strong and light. Made entirely of steel except handle and so constructed that each part acts as a brace to other parts; all firmly bolted together.

Blade is fastened to runners by means of adjustable bolts so by turning thumb nuts, blade is set to enter the hardest ground or just skim the surface. Handle is adjustable to any position. Painted red.

Each

Easy Glide—Garden Cultivator; length of handle, 4½ feet; weight each, 5 lbs..... **$3.00**

SIMPLEX.

Contains every essential for the Home Garden Wheel Hoe at a very low cost, with a minimum of weight and adjustment.

Cuts out three-fourths of the hard work of hoeing and saves a great deal of time.

The success of the Simplex is due to the polished V-shaped blade, which gives a razor-like "draw" cut and which works at just the right depth to cut off all weeds, stir up the soil and produce the proper dust mulch.

The blade is forged from tool steel, measures 9 inches across and is turned up at the tips to safe-guard the growing plants.

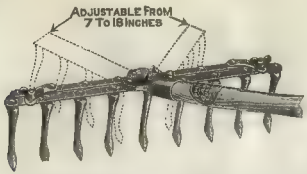
Any standard tools, including the famous "Midget" seeder may be attached if desired

Each

No. A3—Simplex Garden Cultivator; width of blade, 9 inches; 14-inch oval steel spoke wheel with 1¼-inch tire; attractively finished; weight each, 11 lbs..... **$5.40**

HAND CULTIVATORS.

PULL EASY.



Can be instantly adjusted to fit rows of any width; when arms are spread it is like a rake 18 inches wide; for narrower rows the outer ends can be brought to within 7 inches of each other. The width is adjusted by loosening two wing nuts; middle tooth can be removed so that cultivator will straddle one row of plants. Shape of teeth causes ground to be stirred or pulverized thoroughly without operator having to exert any downward pressure.

Cross bars and tines are one piece pressed steel, castings are malleable iron; handle is straight grained white ash. All metal parts are painted gray.

Per Dozen

No. PE—Hand Cultivator; full width, 18 inches; minimum width, 7 inches; extreme length, 54 inches; length of handle, 4½ feet; weight per dozen, 40 lbs. **$16.30**

Half dozen in a bundle.

WAR GARDEN MODEL.

Combines the popular five prong style with the great Pull Easy Adjustable feature. Can be instantly adjusted to fit different width rows. Center tooth can be easily removed to allow straddling of rows. When spread to full width will prepare deeper finer seed beds than a rake. Has channeled steel teeth, sharpened points, concaved to insure perfect scouring.

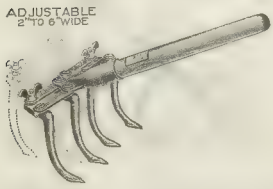
Cross bars, teeth and handle socket are of pressed steel, handle is straight grain polished white ash. All metal parts painted deep blue.

Per Dozen

No. PE5—Hand Cultivator; full width 11 inches; minimum width 7 inches; extreme length, 54 inches; length of handle, 48 inches; weight per dozen, 32 pounds **$19.20**

Half dozen in a crate.

PULL EASY JUNIOR.



A small adjustable hand cultivator for use amongst flowers and small shubbery; the tines are adjustable from two to six ins., width is adjusted by means of two wing screws; shape of teeth causes ground to be pulverized thoroughly; teeth are pressed steel, balance except handle is cast iron; all metal parts are painted gray.

Per Dozen

No. PEJ — Width adjustable from 2 to 6 inches; length of handle, 10 inches; weight per dozen, 12 lbs. **$9.50**

One dozen in a crate.

No. PEJ4 — Same as No. PEJ, but with a 4-foot handle; weight per dozen, 20 lbs. **12.00**

In bulk.

PULL EASY ROCKER HOE.

The Pull-Easy Rocker Hoe is used about an inch or more below the surface with about the same movement as a mop. The keen two-edged blade cuts off all weeds below the surface while the four upstanding teeth and the pivot leg in the same movement break up the soil and produce the most desirable dust mulch.

Permits very close and careful weeding and cultivation under and around large tender leaved plants.

The two-edged, keen blade of this hoe cuts on both the forward and backward motion. The socket casting has side stops which limit the oscillating movement of the blade, keeping it at just the right angle under the surface to cut properly.

The hoe proper is not lifted from under the ground, but tilts forward or backward automatically as the direction of the stroke changes.

Per Dozen

No. PEH—Blade of high carbon steel tempered in oil, length 5 ins., width 1½ ins.; teeth 2 ins. long; malleable iron castings; 4½-foot polished white ash handle; weight each, 2 lbs. **$12.00**

Half dozen in a bundle, weight 11 lbs.

HAND CULTIVATORS.

COMBINATION HOE, CULTIVATOR, PLOW AND RAKE.

STANDARD.

A spring beam cultivator equipped with four shovels, one pair hoes, one pair diamonds, two leaf guards and wrench.

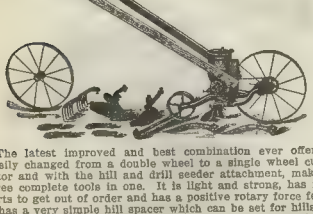
This spring beam, double wheel tool is a great favorite with all who use it, owing to the fact that the attachments when in use are entirely under the operators control. The handles being bolted to the spring beams allow them to be moved to and from each other very easily. In cultivating plants in hills the attachments can be worked in and out between the plants, doing the closest work possible to be done with a wheel hoe. The arch clears the ground fifteen inches, and is adjustable in width from seven to eleven inches. Wheels are sixteen inches high, with one inch tires. While the tool is light and easy to handle, it is built of the best materials. Handles are best oak with bent grips.

Each

No. 5—Standard Hoe, Plow and Rake, with attachments as shown in cut; shipping weight each, 26 lbs... **$12.00**

COMBINATION HOE, CULTIVATOR, PLOW RAKE, HILL AND DRILL SEEDER.

STANDARD.



The latest improved and best combination ever offered. Easily changed from a double wheel to a single wheel cultivator and with the hill and drill seeder attachment, making three complete tools in one. It is light and strong, has few parts to get out of order and has a positive rotary force feed. It has a very simple hill spacer which can be set for hills, 4, 6, 8, 12 and 24 inches apart. The seed opening is regulated by a brass thumb screw, the flow of seed instantly stopped by pulling a string. The attachments are made of malleable iron. Handles are extra quality oak, bent pattern, not sawed and are adjustable to suit the height of any person. Wheels are wire pattern, being strong and light, and are 16 inches in diameter.

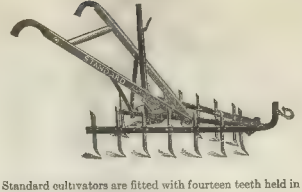
Each

No. 9—Combined Hoe, Cultivator, Plow, Rake, Hill and Drill Seeder, with attachments as shown in cut; shipping weight each, 50 lbs..... **$26.00**

CULTIVATORS.

ONE HORSE.

STANDARD



Standard cultivators are fitted with fourteen teeth held in place by means of stirrup bolt and grooved boxing; boxing can be changed so that teeth may be adjusted to different angles. Teeth are made of very best hard steel with one end shaped for cultivating, while by reversing them the tool can be used as a harrow.

These cultivators are fitted with lever for adjusting width of frame; guide wheel and long outside handle brace. Made from high grade material. Frame is painted green; handles are hardwood and varnished; hand grips are painted red.

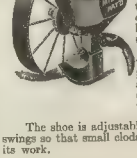
Each

No. 14—Standard One Horse Cultivator, with guide wheel, lever and handle brace; has 14 teeth; length of teeth, 10½ inches; weight each complete, 67 lbs..... **$5.86**

In bulk.

SEEDER ATTACHMENT.

MIDGET.



Will attach to any "Standard" single wheel cultivator, or to almost any make of single wheel cultivator having 6½ inches or more space between the shank and wheel. It attaches with one bolt in the same place and same manner as the cultivating tools. Will drill almost any kind of garden seed from the smallest up to peas and beans.

While the hopper holds one pint, it will handle and drill out clean a five cent package of seed just as well as a larger amount. An index naming several different varieties of seed is in plain view on top and no trouble to adjust.

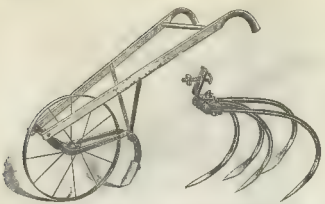
The shoe is adjustable for any depth desired and the coverer swings so that small clods or a little trash does not interfere with its work.

Each

No. 1—Seeder Attachment; size of wheel, 8 inches; height over all, 8 inches; depth of seed cup, 4 inches; weight each packed, 7 lbs..... **$6.72**

One in a carton

+RIVERSIDE.



Extra attachment.

Riverside wheel plows are made from highest grade materials and are built on correct principles. The beam is made of a very stiff steel and is so constructed that weight falls directly over the pivoting point making the plow self balancing.

Handles can be raised or lowered to suit man or boy. The different extras include shovel calk-tongue, weeder, mould-board and rake.

Metal parts are high grade materials and are finished attractively in green and blue. Handles are hardwood and are finished a bright red.

Each

Riverside Garden Plow; complete with attachments; height of wheel, 24 inches; handles adjustable to different height; weight each, 23 lbs... .....$3.70
One in a bundle.

EXTRA ATTACHMENTS.

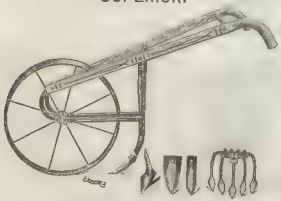
New five prong attachment to fit Riverside plows.

By means of this attachment soil can be cultivated in proper manner. Weeds have absolutely no chance to sprout; leaves soil loved and loose. The middle prong may be removed for straddling rows.

Each

No. ET5—Extra Attachment; 5 prong; weight each, 2½ lbs... ....$1.00
Six in a bundle.

SUPERIOR.



Drafted and designed mechanically correct throughout, making it a neat, light running plow.

Constructed so that the draft can be easily changed to suit different soils, making it very popular in all localities. The handles can be readily raised or lowered to suit the operator.

Fully equipped with shovel, calk-tongue, mould-board, wrench and five-tooth cultivator. Wheel and attachments made from high grade steel. Finish, handles natural, metal parts painted green

Each

No. 2—Superior Garden Plow; complete with attachments; height of wheel, 24 inches; approx. weight each, 20 lbs .$6.00
One in a bundle.

STANDARD.

The standard garden plow has a 24 inch wheel which makes it a leader in its class. The handiest and most perfect adjustment ever put into a tool. Simply adjusted up or down by loosening a thumb nut. Handles are also adjusted by same thumb nut without interfering with the plow adjustment. Bent style handles both at upper and lower ends. Has double end shovel, moldboard and landside combined sweep and rake (practically 5 tools). These are made from hard steel, ground and polished and will work perfectly in any soil.

No. 20—Standard Garden Plow, without Midget seeder attachment and with attachments as shown in cut; shipping weight each, 19 lbs..... .... $7.36

STANDARD NO. 20 WITH MIDGET SEEDER ATTACHMENT.

Standard cultivators with Midget seeder attachment are in great demand. The Midget can be attached in the same place as cultivating tools; will drill any kind of garden seed from smallest up to beans and peas.

Each

No. 201—Standard No. 20 Cultivator with Midget Garden Seeder Attachment; weight complete, 24 lbs $14.08
One in a bundle.

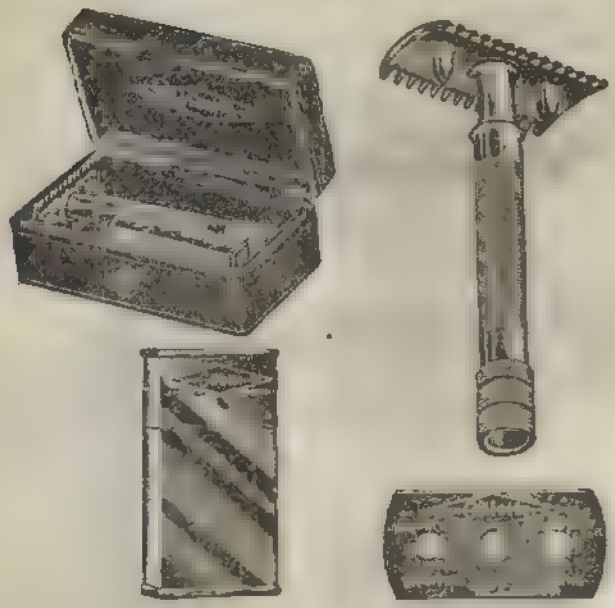
A light, strong, well balanced tool, light draft and easy to handle, attachments setting up close to the wheel making the tool run steady. Steel wheel runs on a bushing, eliminating wear and help stiffen frame. Handles are made from select oak wood, adjustable for man or boy. Bolted to steel frame and braced. Attachments are high grade steel and easy attached. Equipped with four attachments and wrench, one oval shovel, 4x8 inches; one mould-board, 4x12 inches; one shovel, 2x8 inches, and one 3 prong weeder. Painted red and green.

Each

No. 40—Standard Garden Cultivator; complete with attachments as shown in cut, size of wheel, 1x24 inches; weight each, 19 pounds..... $7.36
Packed flat for shipment.

SAFETY RAZORS

GILLETTE



Each

No. 460—Standard Razor Set; Triple Silver Plated Handle; Twelve Blades; Cowhide, Morocco Grain Case, Size 3¼x2x1½ inches..... $7 50 7 00

REAL SEAL CASE

Size 3¼x2x1½ inches; Twelve Blades

Each

No. 466—Triple Silver Plated Handle..... $9 00 6 00
No. 466B—Gold Plated Handle..... 11 30 7 50

ENGLISH PIGSKIN CASE

Size 3¼x2x1½ inches; Twelve Blades

Each

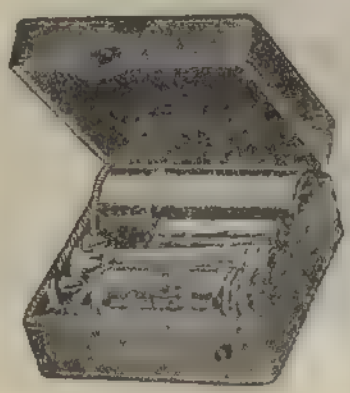
No. 468A—Sterling Silver Handle..... $18.00 12 00
One in a Box; Weight 6 ozs.

Each

No. 460B—Triple Silver Plated Handle; Twelve Blades in Triple Silver Plated Metal Box; Nickel Plated Meral Case, Velvet Lined; Size 3¼x2x1½ inches; Weight 9 ozs..... $5.00 7 50

No. 460G—Gold Plated Razor and Blade Box, Triple Plated Metal Case, Velvet Lined; Size 3¼x2x1½ inches; Weight 9 ozs..... 7 50 11 30

One in a Box



Triple Silver Plated Handle Twelve Blades; Good Quality Badger Hair Telescope Lather Brush; Stick Shaving Soap in Triple Silver Plated Holder; Cowhide, Morocco Grain Case.

Each

No. 461—Size of Case 3¾x3¾x1 inches; Weight 12 ozs.. $9 00 6 00
One in a Box

SAFETY RAZORS

GILLETTE

Triple Silver Plated Handle; Metal Box with Twelve Blades, Telescope Pattern Badger Hair Brush, Stick Shaving Soap in Triple Silver Plated Holder, Nickel Plated Metal Case, Velvet Lined.

Each

No. 461B—Size 3¼x3¼x1¼ inches; Weight 15 ozs. $9 80 6 00
One in a Box

ARISTOCRAT

With the advent of French Ivory and its extensive adaptation for so many articles of personal use, there comes a persistent demand for a correct Style of Safety Razor Set. The "Aristocrat" is the answer. The Razor Handle is a new and appropriate design. It is in keeping with the latest ideas in Men's Toilet Articles.

Each

No. AS—**Aristocrat—Triple Silver Plated;** Twelve double edged Blades (24 Shaving edges); French Ivory Hinge Lid Cases Velvet Lined; Two Blade Boxes to Match; Weight each 6 ozs..... $5.00 7 50

No. AG—**Aristocrat—Gold Plated;** Otherwise Same as Above.. 6 00 9 00
One in a Box

MILADY DECOLLETTE GILLETTE

Made up in Four Different Colored Linings; Old Gold, Old Rose, Purple and Green.

Always Specify Color wanted when Ordering.

Designed expressly for Women's use. The Safest and most Sanitary method of securing a Smooth Underarm. The Sleeveless Evening Gown, the Transparent Blouse Material [illegible] demand for a smooth arm. It is very simple and easy to use, merely a soap lather well rubbed in and a few strokes of the blade, which has been inserted in the Special Holder. A Graceful Completement to the Dressing Table that will be appreciated by women who are particular to the niceties of the Personal Toilet and the refreshments of Dress.

Each

No. M—Gold Plated, Twelve Double Edge Blades, French Ivory Hinge Lid Case, size 3½x3¼x3¼ inches, lined with Velvet and Satin; Weight Each 56 ozs..... $7 50 5.00
One in a Box

GILLETTE BLADES

Double Edge; New Process; Size 1⅛x⅞ inches; Ground Ready for Use. One Blade in an Envelope.

Per Package

No. GEB—Twelve Blades in a Nickel Plated Box, Enclosed in a Cardboard Carton..... $1.60 1 00
Ten Packages in a Box

No. GEB6—Six Blades in a [illegible] 76 50
Twenty Packages in a Box
Weight per Doz. 1 lb. 1 oz.

SAFETY RAZOR SETS
GILLETTE

Standard Combination Set; Triple Silver Plated Handle; Twelve Blades Good Quality Badger Hair Lather Brush; Stick Shaving Soap in Triple Silver Plated Holders; Goatskin, Seal Grain Case.

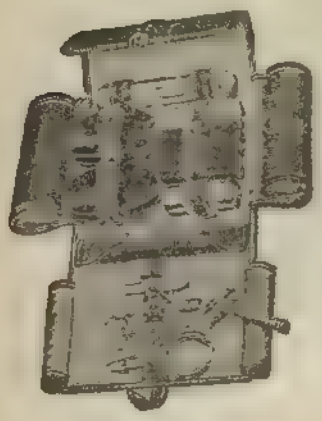
		Each
No. OO—Size 5x3¾x1¾ inches; Weight 1⅛ lbs.	$9 00	6 50
No. OOB—Same as above only in Pigskin Case	12 00	8 00
No. OOG—Same as above only Gold Fittings throughout; Seal Grain Leather Case	15 00	10 00

One in a Box

Triple Silver Plated Handles; Twelve Blades Fine Quality Badger Hair Lather Brush, and Stick Shaving Soap in Triple Silver Plated Holders; Beveled Plate Glass Removable Mirror; Size of Case 5x3¾x2¼ inches; Weight 1 lb.

		Each
No. 421—Real Seal Case	$13 50	9.00
No. 422—English Pigskin Case	13 50	9.00
No. 421G—Same as No. 421, but with Gold Plated Razor and Fittings	18 00	12 00

One in a Box

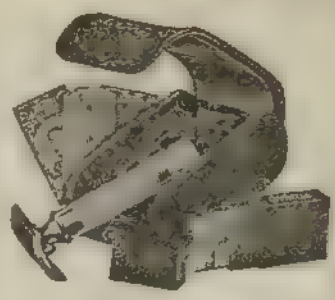


Triple Silver Plated Handle; Twelve Blades; Fine Quality Badger Hair Lather Brush and Stick Shaving Soap, in Silver Plated Holders; Triple Silver Plated Mounted Tooth Brush Holder; Pair Ebony Military Brushes; Comb; Manicure Set; Seal Grain Leather Roll with Mirror.

		Each
No. 417—Size 8½x7x2½ inches; Weight 2½ lbs.	$30 00	20 00

One in a Box

SAFETY RAZOR SETS
GILLETTE



BULLDOG

Stocky "Bulldog" Handle; heavier than the Gillette Standard; extra generous in the grip and beautifully balanced. Designed for the Athletic Chap to match his stout Walking Stick, his "Bulldog" Pipe, his Man's Size Pocket Knife and his thick Fountain Pen.

		Each
No. BS—Bulldog—Triple Silver Plated; Twelve double edged Blades (24 Shaving edges); One Case of Gray Antique Leather, Velvet Lined; Two Blade Boxes to Match; Weight each 7 ozs.	$9 00	7 50
No. BG—Bulldog—Gold Plated; Otherwise Same as Above	12 00	9 00

One in a Box

TRAVELERS COMPANION SETS

Consists of Triple Silver Plated Razor and 12 Double-Edged Blades; Fine Quality Gillette Badger Hair Shaving Brush and Stick; Gillette Shaving Soap in Silver Plated Holders; Triple Silver Plated Mounted Cut Glass Tooth Brush Holder, Talcum Powder and Perfume Bottles; Hand Soap Box; Pair Ebony Military Hair Brushes; Ebony Clothes Brush; Comb, Manicure Set and Mirror; all contained in Seal Leather Roll.

		Each
No. 427—Size of Case 8½x7¼x4 inches; Weight 4 lbs.	$37.50	25.00

One in a Box

GILLETTE BLADES

Double Edge; New Process; Size 1⅝x⅞ inches; Ground Ready for Use. One Blade in an Envelope.

		Per Package
No. GEB—Twelve Blades in a Nickel Plated Box, Enclosed in a Cardboard Carton	$1 50	1 00
Ten Packages in a Box		
No. GEB6—Six Blades in a Carton	76	50

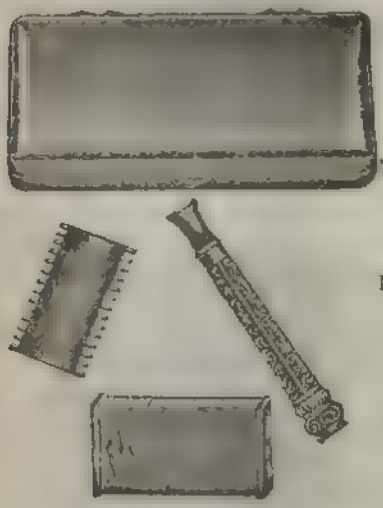
Twenty Packages in a Box; Weight per Dozen 1 oz.

SAFETY RAZORS

GILLETTE POCKET EDITION

Designed Especially for Travelers; Being very Compact they can be Carried in the Vest Pocket without any Inconvenience; Each Set Contains Twelve Blades in Metal Box Plated to Match Razor.

Metal Cases; Size 4x⅞x⅝ inches.



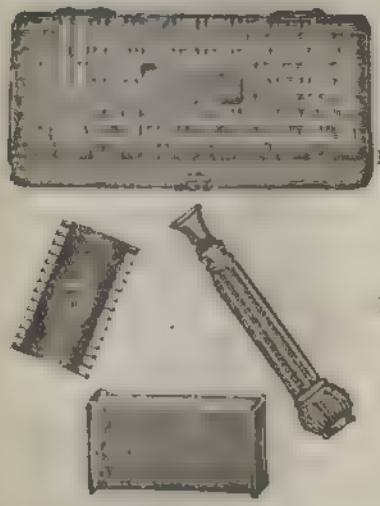
PLAIN METAL CASE
VELVET LINED

Each

No. 500—Triple Silver Plated Case and Razor... **$7.50** 5.00

No. 500B — 14-Karat Gold Plated Case and Razor... **9.00** 6.00

One in a Flannel Bag in a Box
Weight 8 ozs.



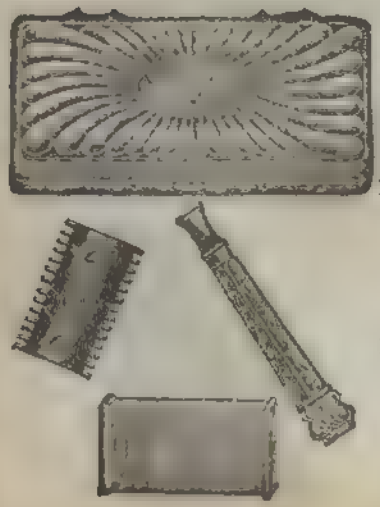
BASKET PATTERN METAL
CASE—VELVET LINED

Each

No. 501—Triple Silver Plated Case and Razor... **$7.50** 5.00

No. 501B—14-Karat Gold Plated Case and Razor... **9.00** 6.00

One in a Flannel Bag in a Box
Weight 8 ozs.



SHELL PATTERN METAL
CASE—VELVET LINED

Each

No. 502—Triple Silver Plated Case and Razor... **$7.50** 5.00

No. 502B—14 Karat Gold Plated Case and Razor... **9.00** 6.00

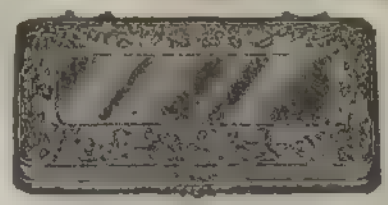
One in a Flannel Bag in a Box
Weight 8 ozs.

SAFETY RAZORS

GILLETTE POCKET EDITION

Designed Especially for Travelers; Being very Compact they can be Carried in the Vest Pocket without any Inconvenience; Each Set Contains Twelve Blades in Metal Box Plated to Match Razor.

Metal Cases, Size 4x⅞x⅝ inches



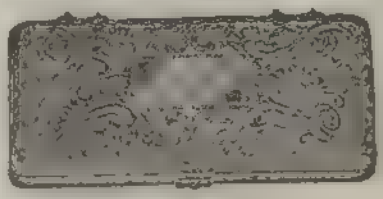
FLOWER PATTERN METAL
CASE—VELVET LINED

Each

No. 503—Triple Silver Plated Case and Razor. **$5.00** 7.50

No. 503B—14 Karat Gold Plated Case and Razor 6.00 9.00

One in a Flannel Bag in a Box
Weight each 8 ozs.



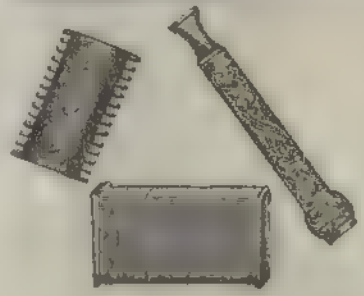
EMPIRE PATTERN METAL
CASE—VELVET LINED

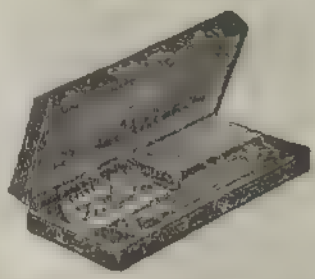
Each

No. 504 — Triple Silver Plated Case and Razor **$5.00** 7.50

No. 504B—14 Karat Gold Plated Case and Razor 6.00 9.00

One in a Flannel Bag in a Box.
Weight each 8 ozs.





LEATHER CASES
BLUE VELVET LINED
Size 4¼x2⅛x⅞ Inches.

		Each
No. 505	Triple Silver Plated Razor, Black Cowhide Case	**$5.00** 7.50
No. 505BS	14 Karat Gold Plated Razor; Black Sealskin Case	6.00 9.00
No. 506BP	—14 Karat Gold Plated Razor; **Pigskin Case**.....	6.00 **9.00**

One in a Box; Weight each 8 ozs.

GILLETTE BLADES

Double Edge; New Process; Size 1½ x⅞ inches; Ground Ready for Use. One Blade in an Envelope.

	Per Package
No. GFB—Twelve Blades in a Nickel Plated Box, Enclosed in a Cardboard Carton..... Ten Packages in a Box	**$1.50** 1.00
No. GEB6—Six Blades in a Carton..... Twenty Packages in a Box	.75 .50

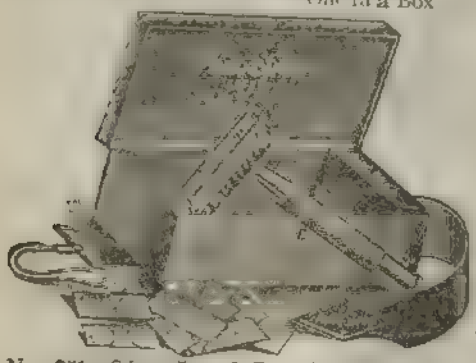
Weight per Dozen 1 oz.

SAFETY RAZORS

AUTO-STROP

Shaves, Strops, Automatically and Cleans without Removing Blade from Holder; Hard Rolled Brass Frame, Silver Plated. Complete with Razor, One Dozen Blades and Shell Horsehide Strop in Black Leather Case; Satin Lined.

No. 1—Leather Case 4½x2¾x1¾ inches, Weight Each 9 ozs..... **$7.50**
One in a Box



AUTO-STROP

Shaves, Strops Automatically and Cleans without Removing Blade from Holder; Hard Rolled Brass Frame, Silver Plated; Complete with Razor; One Dozen Blades and Shell Horsehide Strop in Handsome Plated Metal Case, 4⅜x2x1½ inches, with Satin Lining.

Each
No. 251—Silver Plated Case; Weight Each 9 oz. **$7.50**
No. 252S—Gun Metal Finish Case; Weight Each 9 oz..... **7.50**
One in a Box

AUTO-STROP

Razor, 12 Blades and Strop, Same as in Nos. 1 and 251, together with Folding Rubberset Shaving Brush and Large Size Colgate Shaving Stick in Silver Plated Perforated Cover Box. Complete Shaving Outfit in a Handsome Black Leather Case, 4¼x3½x2¼ inches.

Each
No. 15—Weight Each 14 oz..... **$9.00**
One in a Box

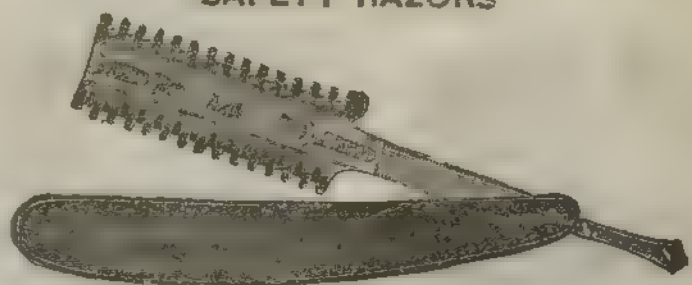
AUTO-STROP

Razor, 12 Blades and Strop, Same as in Nos. 1 and 251, together with Badger Hair Rubberset Shaving Brush with Ivoroid Handle in Silver Plated Box, and Large Size Colgate Shaving Stick in Silver Plated Box with Perforated Cover.

Complete Shaving Outfit in Handsome Black Leather Case 5⅛x4x2 inches.

Each
No. 25—Weight Each 1 lb. **$9.76**
One in a Box

SAFETY RAZORS



DURHAM DUPLEX DEMONSTRATOR

Cast Steel Frame, Nickel Plated and Polished; Double Edged Hollow Ground Razor Blades, from Finest Norwegian Steel, Carefully Hardened and Tested; Stamped Steel Guard Insures Safety; Black Fibre Handles. Easily Taken Apart. When Shaving, the Razor Is Held Flat to the Face.

Per Dozen
Durham Duplex Demonstrator—Weight Complete 5 ozs..... **$1.50**

DURHAM DOMINO

Steel Frame, Nickel Plated and Highly Polished; White Celluloid Handle; Stamped Steel Blade Guard; Razor Blades Double Edged and Hollow Ground.

Each
Durham Domino—Complete with Stropper Attachment and Package of Six Durham Duplex Blades, in a Genuine Red Leather Roll Case; Weight 2 ozs. **$1.50**
Write us for Prices in Quantities
One in a Box

EXTRA BLADES FOR DURHAM DUPLEX SAFETY RAZORS

Per Package
No. DDEB—Made from Highest Grade Norwegian Steel; Six in a Package; Double Edged, Ground 12 Curving Edges; Weight per Package 3 ozs..... **$0.75**

EXTRA BLADES FOR AUTO-STROP SAFETY RAZORS

Manufactured Specially for use in Auto-Strop Safety Razors, Enclosed in Moisture-proof wrapper, then in a paper carton.

Per Package
No. ASEB—Size of Blade 1⅜x¾ inch; Weight per Dozen 4 ozs .. **$1.50**
One Dozen in a Package
No. ASEB6—Six in a Package; Weight per Dozen 2 oz..... **.75**

EXTRA STROPS FOR AUTO-STROP RAZORS

Fine Quality of Horsehide specially tanned for use in Auto-Strop Safety Razor; it is treated with a Preparation which does not contain Emery, Chemical or Other injurious compounds.

Each
No. AUTO—Weight 2 ozs..... **$0.76**
One in a Box

Handlan No. 176 Lanterns

In Use on Over 150 Railroads

No 176 will show a saving of from 25 to 50 per cent on globe expense
Make your standard the Handlan No 176 Lantern with heat resisting globes and cut your lantern and globe account one-half.

Equipped with No. 1 burner, ⅝-inch wick
Equipped with No. 1 extra burner, 1-inch wick.
Equipped with heat resisting globe or lead flint globe

Handlan Special Lanterns

Electrically Welded

We were the originators of the open bottom outside wick raising, wire guard lantern known as

Handlan No. 176

Imitations flatter and conclusively establish the superiority of their strength of construction They diminish globe breakages, appeal to trainmen possess durability, assuring maximum service Their adoption as standard by many prominent lines is evidence of their worth Backed by fifty years of progressive manufacturing experience—ably assisted by meritorious suggestions from practical railroad men.

Handlan No. 176 Lanterns

1 The severest test of a lantern's efficiency is its ventilating qualities. We believe ours to be perfect. Our saying so won't convince you, but we do think that a trial service test will prove it.

Electrically Welded

Spring controlled bail stiffener. Strong practical construction. Especially valuable in imparting clear, distinct signals. When not in use remains in a set position out of the way.

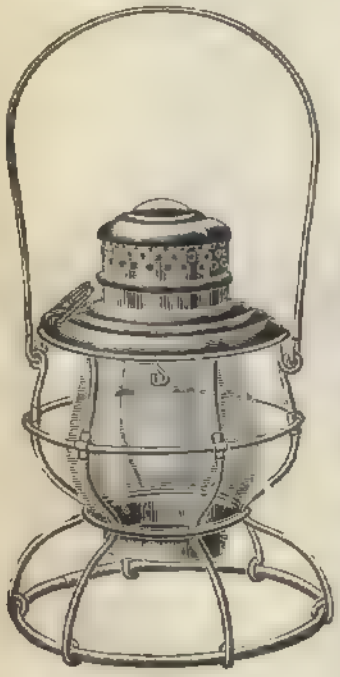
Heretofore the weakest point in construction, in this style it is admittedly the strongest part of the lantern, on account of the vertical guards being inserted through the perforations in the pressed steel globe plate, retaining them immovable in position. This method eliminates the use of tin bands, solder or clamps for this purpose. Most all other lanterns on the market have a frail tin strip or band holding the guards in place.

2. The next important factor is durability We know that our method of construction is the strongest much more so than a steel guard because service usage has demonstrated this feature to railroads who have purchased them.

Handlan No. 176 Lanterns

3 Next comes simplicity in operation. Our No 176 is considered the best because of its logical principle of manipulation and ready access to fount burner and wick, and cleaning of important parts.

Electrically Welded



This lantern is of light weight and medium height, and having a broad base is not easily overturned. For these and other reasons they appeal to the men using them, consequently receive better care than lanterns having objectionable features.

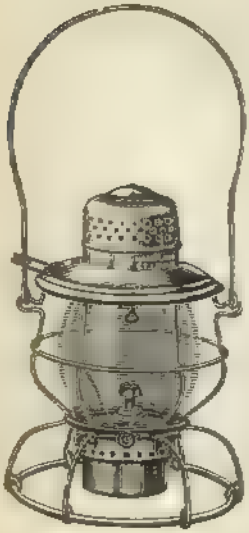
Seamless drawn oil fount. Prevents leakage.

Oil fount casing drawn entirely from one piece of metal.

Fount enclosed in casing ready to be clamped to lantern.

4. Last, but not least, is prevention of globe breakages There again our No 176 shows its superiority, because it reduces handling of globes to a minimum eliminating all unnecessary movements except cleaning of same The saving in number of globes purchased is worthy of your consideration.

Handlan Railroad Lanterns



Handlan No. 176 Railroad Lantern

With Coal Oil Burner

Outside Wick Raiser

Takes regular heat resisting globe no change in common standards, burner and wick are special, and fits your present standard lantern.

Handlan No. 180 Railroad Lantern

With Coal Oil Burner

Outside Wick Raiser

This is a regular common standard lantern, takes regular railroad globe, burner and wick are special and fits your present standard lantern

See page 167 for special coal oil burners for above lanterns.

Handlan Perfection Engineers' Oilers

Sectional View

Lengths of spouts, 6, 8, 10, 12, 14, 18, 20, 21 and 24 inches

All spouts, 14 inches and over are made double, giving them additional strength

No	Size	Tin Per Doz	Brass Per Doz	Nickel Per Doz
34	½ pint	$ 8 50	$12 00	$15 00
36	1 pint	10 00	15 00	18 00
38	1 quart	12 00	18 00	21 50
40	2 quart	14 50	21 00	26 50

Handlan Perfection Engineers' Oilers

With Detachable Spout

Detachable Spout

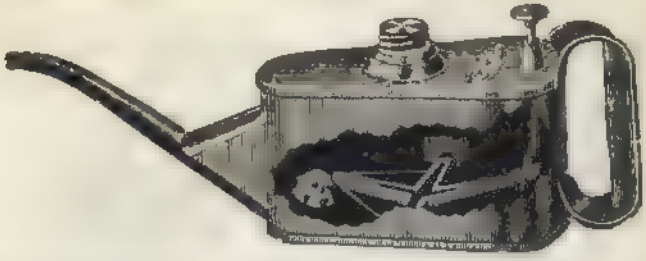
Sectional View

Size Spout Inches	Tin Per Doz	Brass Per Doz	Nickel Per Doz	Size Spout Inches	Tin Per Doz	Brass Per Doz	Nickel Per Doz
8	$3 75	$5 00	$8 00	18	$5 00	$7 00	$10 00
10	4 00	5 50	8 50	20	5 25	7 50	10 50
12	4 25	6 00	9 00	22	5 50	8 00	11 00
14	4 50	6 50	9 50	24	6 00	8 50	12 00

All spouts, 24 inches and over, are made double giving them additional strength

No.	Size	Tin Per Doz	Brass Per Doz	Nickel Per Doz
936	1 Pint	$15 00	$22 00	$24 00
938	1 Quart	18 00	24 00	27 50
939	2 Quart	21 00	27 00	32 50

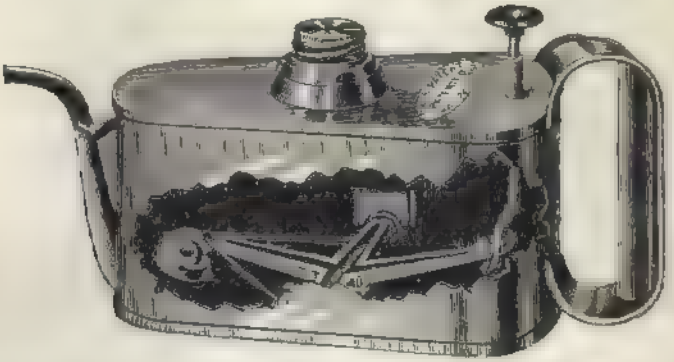
Handlan Perfection Engineers' Hand Oilers



With Valves

No.	Size	Tin Per Doz.	Brass Per Doz.	Nickel Per Doz.	No.	Size	Tin Per Doz.	Brass Per Doz.	Nickel Per Doz.
26	½ Pint	$ 8 00	$12 00	$15 00	29	1 Quart	$12 00	$18 00	$ [illegible]
27	½ Pint	9 00	[illegible] 50	17 00	31	2 Quart	18 00	25 [illegible]	30 00

Perfection Benzine Cans



With Valves

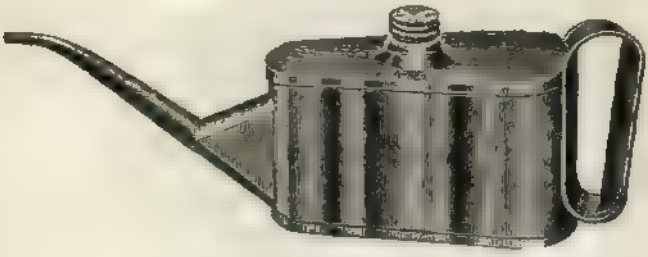
No.	Size	Tin Per Doz	Brass Per Doz	No.	Size	Tin Per Doz	Brass Per Doz
00	1 Quart	$12 00	$18 00	104	2 Quart	$15 00	$24 00

Perfection Filler Cans

With Valves

No.	Size	Tin Per Doz.	Brass Per Doz	Nickel Per Doz
40	1 Pint	$10 00	$15 00	$18 00
41	1 Quart	12 00	18 00	[illegible] 50
42	2 Quart	14 50	24 00	27 00
44	4 Quart, with Spout	18 00	30 00	32 00

Handlan Perfection Hand Oilers



Without Valves

No	Size	Tin Per Doz	Brass Per Doz	Nickel Per Doz
250	½ Pint	$ 5 00	$ 9 00	$12 00
270	1 Pint	6 00	10 50	13 50
290	1 Quart	9 00	15 00	18 00
31	2 Quart	15 00	21 00	24 00

Engineers' Oilers

Without Valves

No.	Size	Tin Per Doz.	Brass Per Doz	Nickel Per Doz
340	½ Pint	$4 00	$ 7 00	$10 00
360	1 Pint	6 00	10 00	13 50
380	1 Quart	7 25	12 00	15 00
390	2 Quart	8 75	15 00	18 00

Filler Cans

Without Valves

No.	Size	Tin Per Doz.	Brass Per Doz.	Nickel Per Doz
400	1 Pint	$6 00	$ 9 00	$12 00
410	1 Quart	7 25	10 75	14 25
420	2 Quart	8 50	12 75	19 25
440	4 Quart, with bail	10 00	18 00	30 00

FINEST AND RICHEST GENUINE HAND PAINTED CHINA

Master hands and extreme care, combined with the best workmanship and execution by skilled artists, enter this work

We Guarantee the Highest Quality of Gold being used for Decoration. The Acme of Perfection. None Better. Prices Extremely Low. Illustrations are reduced size.

VASE
Height 15 inches
[illegible]
No 944 $33 00

VASES
The [illegible] Moo is Red [illegible]
[illegible] heavy g[illegible] decoration
[illegible] Each
630-1 9" high $ [illegible]
630 2 [illegible] 8 25

VASES
Historical Alhambra design [illegible]
with [illegible] gold [illegible] and hand [illegible] decorations
[illegible] Each
[illegible] 15½ inch
[illegible] 10½ inch
4 00

VASE
Height 10 inches
Rich natural [illegible]
beautifully heavy gold
[illegible]
No 948 Each $15 00

VASE
Height 12½ inches
[illegible] handle [illegible] tinted
[illegible] gold [illegible] floral dec
[illegible]
No 947 Each $17 40

VASE
Height [illegible] inches
Latest and heavy gold decorations.
No 646 Each $17 40

VASE
Height [illegible] inches
Rich Paste [illegible] design and heavy gold decorations.
No 1651 Each $15 00

VASE
Height [illegible] inches
Natural [illegible] Carnation [illegible] encrusted and heavy rich etched gold decorations.
No 624 [illegible] $17 40

VASE
Height 9 inches
Natural Pink Roses, all over heavy gold [illegible]
No 625 [illegible] $12 15

LEMONADE JUG
Height 7 inches, capacity 4 pints. Historical Alhambra design with heavy gold top, bands and handle decoration
No 251 [illegible] $18 00
LEMONADE TUMBLERS TO MATCH
No. 2350 Height 3¾ inches. Each $3 40

LEMONADE JUG
Height 6 inches, capacity 3 pints. Historical Egyptian design, heavy gold [illegible] band, handle and bottle [illegible]
No 138 [illegible] $18 00
LEMONADE TUMBLERS TO MATCH
No 2380 Height 3¾ inches. Each 3 40

JUG
Rich Tulip decoration, heavy gold border [illegible] and handle, height 9 inches
No 219 [illegible] $15 00

FINEST AND RICHEST GENUINE HAND PAINTED CHINA

Highest Quality of Gold used Heavily and Neatly Applied
Illustrations are reduced size

PLATES
Assorted flowers and gold decorations.

No.	Diameter	Each
10401-5	6 inch	$1 25
10401-4A	6¼ inch	1.75
10401-3	8½ inch	2.60

PLATES
Violet design with gold border and trimming decorations.

No.	Diameter	Each
10404-5	6 inch	$1.50
10404-4A	6¼ inch	1 90
10404-3	8½ inch	3.20

PLATES
Forget-Me-Not and pink roses with gold border and trimming decorations.

No.	Diameter	Each
10450-5C	6 inch	$1 60
10450-4AC	6¼ inch	2 10
10450-3C	8½ inch	3 75

PLATES
Strawberry, dark rich background and heavy gold border decorations.

No.	Diameter	Each
10405-5	6 inch	$1 70
10405-4A	6¼ inch	2 10
10405-3	8½ inch	3 75

PLATES
Rich rouge dor ed background Tulip decoration with gold band and trimming

No.	Diameter	Each
11405-3	8½ inch	$7.50

CAKE PLATE—Open Handles

11405-1	10 inch	$11.20

CHOP PLATE

11405	13 inch	$15.00

PLATES
Grape Conventional etched decoration, all gold center gold border.

No.	Diameter	Each
1407-3	8½ inch	$7 50

CAKE PLATE—Open Handles

1407-1	9½ inch	$11.20

CHOP PLATE

1407	13 inch	$15 00

PLATES
Historical Egyptian design heavy gold border, trimming and beetle decorations.

No.	Diameter	Each
11404-3	8½ inch	$6 00

CAKE PLATE—Open Handles

11404-1	10 inch	$9 60

CHOP PLATE

11404	13 inch	$13 25

PLATES
Cornflower conventional decoration with heavy gold border, center and trimmings.

No.	Diameter	Each
11403-3	8½ inch	$5 60

CAKE PLATE—Open Handles

11403-1	10 inch	$9 20

CHOP PLATE

11403	13 inch	$12 15

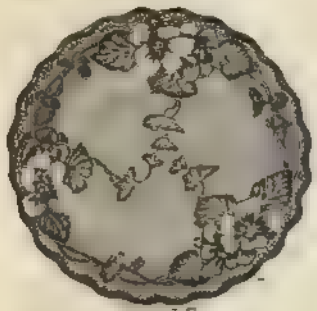


PLATE
Flower or Fruit Conventional decoration, gold border and trimming

No.	Diameter	Each
10414-3	8½ inch	$4 70

RAIL PLATE
Lion Head, Dog Head or Hunting Dog decoration, gold border.

No.	Diameter	Each
10000	9 inch	$7 10

RAIL PLATE
Still Life decoration (assorted designs), gold border and trimming

No.	Diameter	Each
11406	9 inch	$6 90

PLATES
Corn decoration, dark rich background, gold border and trimmings.

No.	Diameter	Each
11401-3	8½ inch	$4 70

CHOP PLATE

11401	12½ inch	$13.10

CLEOPATRA DECORATIONS
Beautiful blue red [illegible] trimmings in gold and black. Suitable as Coffee Set and Chocolate Set. Separate pieces at the following prices:

No. 159	Coffee pot, height 9 inches. Each	$13.10
No. 159-2	Coffee cup and saucer, height 2½ inches. Per set	5 10
No. 159-4	Plate, diameter 7¼ inches. Each	5.60
No. 159-1	Sugar and cream set, height 4½ inches. Per set	10 65
No. 153	Chocolate pot, height 10 inches. Each	14 75
No. 159-2	Chocolate cup and saucer, height 3½ inches. Per set	4.85

TEA OR COFFEE SET

Rich Cornflower conventional decoration, heavy gold handles, covers, spouts and trimmings; height of coffee or tea pot, 6½ inches, height of sugar 4 inches, height of cream 4 inches

No 116	3-piece set as illustrated. Per set	$17 55
No 1160	Six coffee cups and saucers to match, per set of six	22 40

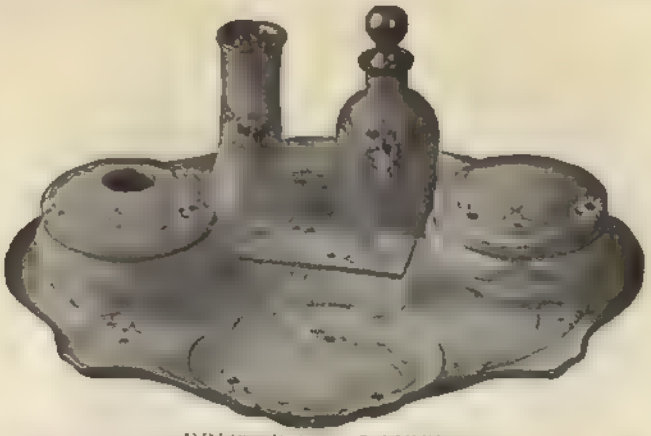
Height 2½ inches

Finest and Richest Genuine Hand Painted China.

The Acme of Perfection

Work Skillfully Executed by Well Known Artisans.
Highest Quality of Gold Neatly and Heavily Applied.
Illustrations are reduced size.

COLOGNE BOTTLE
Double violet or any other floral design, gold top and trimmings height 6⅛ inches
No. 45 3 Each $5 40



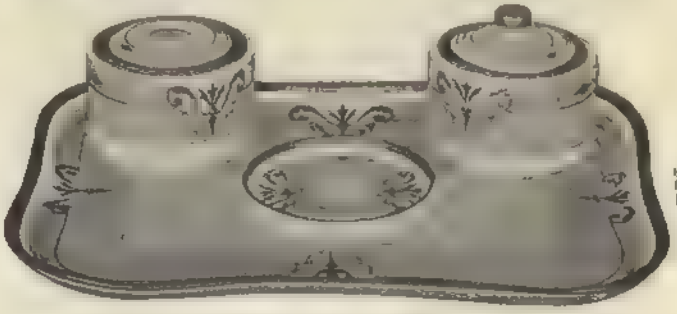
DRESSER SET, 7 PIECES
Daisy Violet or Forget-me-not design, with gold decorations
No. 17 [illegible] Complete set, as illustrated $32 50
SEPARATE PIECES AT THE FOLLOWING PRICES
No. 380 [illegible] brush and comb tray, each .. $9 [illegible]
No. 381 [illegible] pin tray, each ..... 1 [illegible]
No. 382 Oval [illegible] hair pin box length 4¾ inches, each 4 [illegible]
No. 383 4" [illegible] hat pin holder, each 3 [illegible]
No. 384 5 [illegible] inch cologne bottle each 4 [illegible]
No. 385 4 [illegible] each 2 [illegible]
No. 386 4½ [illegible] box each 5 [illegible]

JUG
Rich Diana pattern, heavy gold border, trimmings and handle, height 8¾ inches
No. 2420 Each $13 10

CREAM

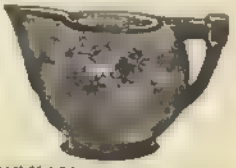
CREAM

SUGAR AND CREAM SET
Height 2 in., popular rose dor, pink roses and gold border, band and base decoration.
No. 122 Complete set... $13.80



DRESSER SET, 4 PIECES
Historical Athenian design, with heavy gold border and trimmings decoration
No. 42 Complete set as illustrated $18 70
SEPARATE PIECES AT THE FOLLOWING PRICES
No. 429 12 inch brush and comb tray, each..... $7 50
No. 431 3 inch pin tray, each 1 00
No. 433 2¾-inch high hair receiver, each. 4 70
No. 433 2¾ inch high puff jar, each..... 4 70

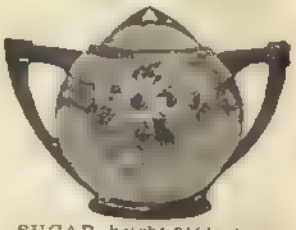
SUGAR
Height 4 inches, historical Persian design, heavy gold border, trimmings and handles.
No. 177 Complete set....$10.65



CREAM, height 3 inches

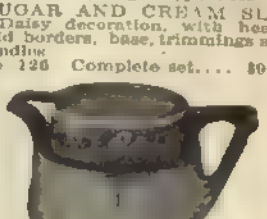
SUGAR AND CREAM SET
Height of sugar 4½ inches, cream 4 inches (Historical Egyptian (Egyptian), design, with heavy gold covered tops, borders, base, trimmings and handles.
No. 144 Complete set $11 20

SUGAR AND CREAM SET
Height of sugar 4½ inches; cream 4½ inches, historical Arabian or Rich Violet design, with heavy gold covered tops, borders, trimmings and handles.
No. 128 1 Complete set.. ....$11.80



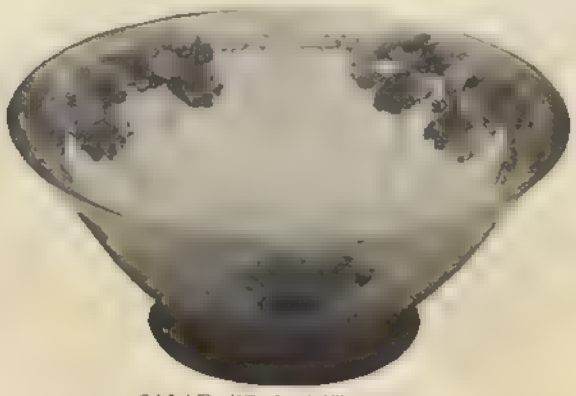
SUGAR, height 3½ inches
SUGAR AND CREAM SET
Daisy decoration, with heavy gold borders, base, trimmings and handles
No. 126 Complete set.... $9 35

CREAM

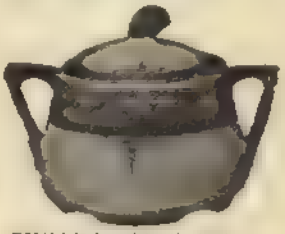


CREAM, height 3½ inches.

SUGAR
SUGAR AND CREAM SET
Height 4 inches, rich violet decorations, heavy gold border, trimming and handles.
No. 102 Complete set..... $7 50



SALAD OR FRUIT BOWL
Poppy conventional design, with rich gold decoration, diameter 10 inches, height 5 inches.
No. 338 Each. $15 00



SUGAR height, 4½ inches
SUGAR AND CREAM SET
Popular rose dor, pink roses and gold border, trimmings and handles
No. 143 Complete set.... $10.00

FINEST AND RICHEST GENUINE HAND PAINTED CHINA

Work Skillfully Executed by Well Known Artisans.
Highest Quality of Gold Neatly and Heavily Applied.
The Acme of Perfection. Illustrations are Reduced Size

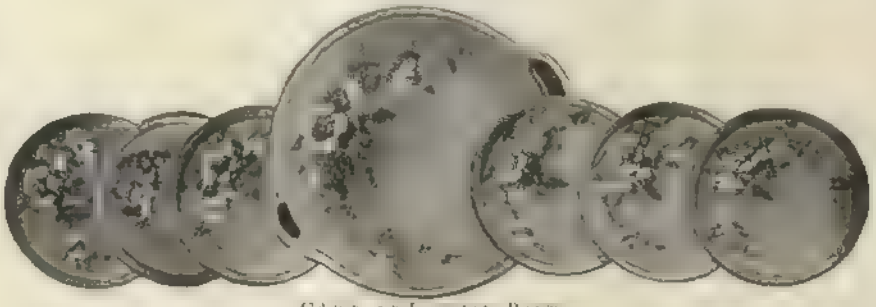
CUP AND SAUCER
Forget - me - not decoration gold border trimming and handle, height 2⅝ inches.
No. 128 Complete $4 70

C
Beautiful etched gold decoration gold inside and handle height 4½ inches.
No 2755 Each .. $0 70

ull gold beautiful etched de
S GAR SHAKER
No 17 5 Height 3⅜ inches
Each $5 10
SALT AND PEPPER
No 17 6 Height 3 inches.
Per pair $5 10

CUP AND SAUCER
Rich pearl decoration, gold border and handle. Height 2⅝ inches
No. 1019 Complete $4 70

CAKE SET
Artistically etched gold etched border decoration, set consists of one 10-inch cake plate, open handles, and six 6-inch cake plates.
No. 171 Complete set as illustrated $17 75



CAKE SET
Wild Rose decoration with gold border and trimming, set consists of one 10-inch cake plate open handles, and six 6-inch cake plates
No 1410 Complete set as illustrated $15 90

CREAM PITCHER
Rich gold etched decoration
Height 4 inches
No. 312/2 Each .. $8 25

JEWEL STAND
Rich gold etched decoration gold handles and handles, diameter 5 inches.
No 135 Each $8 25

SPOON TRAY
Rich gold etched decoration, open gold handles, pearl finished interior, length 10 inches
No. 82 Each $8 40

CO
Rich gold etched decoration inside and outside height 3⅜ inches.
No. 356 2 Each $7 50

SALT AND PEPPER
Height 3 inches
Pair with heavy gold decoration.
No. 17 60
Per pair $3 20

SALT AND PEPPER
Height 2⅝ inches.
Violet or Forget-Me-Not design with heavy gold decoration.
No 17 8
Per pair $3 00

SALT AND PEPPER
Height 2½ inches.
Violet or Forget-Me-Not design with heavy gold decoration.
No 17 8A
Per pair $3 00

SALT AND PEPPER
Height 3 inches.
Rich Violet design with heavy gold decoration.
No 16 1
Per pair $4 70

SALT AND PEPPER
Height 3¼ inches
White, with heavy gold initial, top and trimmings.
No 16
Per pair $2 80

SALT AND PEPPER
Height 3¼ inches
Footed.
White, with heavy gold initial, top and trimmings
No 21
Per pair $2 25

SALT AND PEPPER
Height 3¼ inches
White, with heavy gold initial, top and trimmings.
No 10
Per pair $2 25

Note:- When ordering kindly state initial wanted very plainly.

NAPPY
Strawberry or any floral design, gold border and tracing
inches.
No 356 Each. $5 15

HANDLED BON BON
Apple blossom or any floral design, heavy gold border and handle diameter 5¼ inches
No. 51 Each $3 75

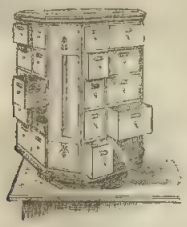
OLIVE DISH
Blackberry or Forget-me-not design, gold border and handles diameter 6½ inches
No. 57 Each $3 40

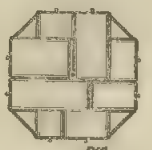
BERRY OR SALAD BOWL
Historical Alhambra design, with heavy gold border and trimming diameter 9½ inches
No. 854 Each $7 50

✠BOLT AND SCREW CASES

✠BROWN'S PERFECTION

Will Hold More and Longer Bolts than Other Cases of Smaller Sizes, Because the Drawers are Square, with no Waste Space at the Center. Each Drawer is Labeled with the Size of Screw or Bolt, which it is Intended to Contain; Each Drawer will Hold a Full Package of the Size Indicated, the Case Revolves Easily, whether Empty or Full.





Plan

Made of Good Quality Tennessee Oak, Hard Oil Finish; Drawers are Made Square, with no Waste at Center

BOLT CASES

No. 40—Forty Drawers; Height 37 inches, Diameter 22 inches; Weight Each 180 lbs ..... Each **$30 00**

No. 40 Cases Labeled as Follows:

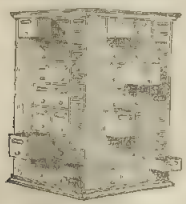
¼x1½, 1¾, 2, 2¼, 2½, 3, 3½, 4, 4½, 5.
⅜x1½, 1¾, 2, 2½, 3, 3½, 4, 4½, 5, 6.
⅜x2, 2½, 3, 3½, 4, 4½, 5, 6, 7, 8.
½x8, 3½, 4, 4½, 5, 6, 7, 8, 9, 10.

SCREW CASES

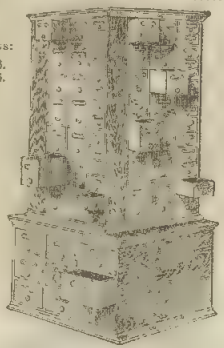
No. 80—Eighty Drawers; Height 37 inches, Diameter 22 inches; Weight Each 180 lbs..... Each **$40 00**

No. 80 Screw Case is Labeled as Follows; Can be Changed to Suit Your Own Selection of Screws:

¼ inch—1, 2, 3 (in One Drawer).
⅜ inch—2, 3, 4, 5.
½ inch—2, 3, 4, 5, 6.
⅝ inch—4, 5, 6, 7, 8.
¾ inch—5, 6, 7, 8, 9.
⅞ inch—5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
1 inch—5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
1¼ inch—7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
1½ inch—7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
1¾ inch—9, 10, 11, 12, 13, 14, 16.
2 inch—9, 10, 11, 12, 13, 14, 16.
2½ inch—12, 14, 16.
3 inch—14, 16, 18.



The Plan of Nos. 112 and 130 is the Same as Nos. 40 and 80, Shown Above, Except the Corners are Left Square and Filled in with Small Drawers for Screws.



COMBINATION BOLT AND SCREW CASES

Made of Good Quality Tennessee Oak, Hard Oil Finish

UPPER CASE, ONLY—WITHOUT BASE

Each

No. 112—With 112 Boxes; 56 for Bolts and 56 for Screws. Height of Case 50 inches; Diameter 24 inches; Weight Each 300 lbs..... **$60.00**

CASE AND BASE COMPLETE

Each

No. 130—Base is 30 inches Square, 29 inches High, and Contains 18 Drawers; Upper Case has 112 Boxes, 56 for Bolts and 56 for Screws; Height Over All 70 inches, Weight Each 480 lbs..... **$72 00**

No. 112 Cases Leave the Factory Labeled as Follows:

Washers, ¼, 5-16, ⅜, ½.
Bolts, ¼x1, 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3½, 4, 4½, 5.
Bolts, 5-16x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3½, 4, 4½, 5, 6.
Bolts, ⅜x1¼, 1¾, 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 7, 8.
Bolts, ½x2½, 3, 3½, 4, 4½, 5, 6, 7, 8, 9, 10, 11, 12.
Screws, ¾—3, 4, 5 (in One Drawer).
Screws, ½ 3, 4, 5, 6
Screws, ⅝ 4, 5, 6, 7.
Screws, ¾—5, 6, 7, 8, 9.
Screws, ⅞—6, 7, 8, 9
Screws, 1 —7, 8, 9, 10, 11.
Screws, 1¼ 8, 9, 10, 11, 12.
Screws, 1½—9, 10, 11, 12, 13, 14.
Screws, 1¾—11, 12, 13, 14.
Screws, 2 —11, 12, 13 14.

This Leaves 14 Small Drawers with Blank Labels, which Can be Used for Tire Bolts or Stove Bolts, etc.

No. 130, Case Labeled as Above, with the Following Added in the Base.

Washers, ⅝, ¾.
Bolts, ⅝—5, 6, 7, 8, 9, 10, 11, 12.
Bolts, ¾—7, 8, 9, 10, 11, 12, 14, 16.

Labels Can Easily be Changed to Suit Your Own Selection

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Erwin, Tenn.

✠REVOLVING SCREW AND BOLT CASES

AMERICAN

Tops and Bottoms of Each Case Are Constructed of Hard Wood, Grooved, Glued and Screwed Together, and Braced with Iron Rods, which Bind the Whole Firmly [illegible] Each Case Weighs Three Times the Weight that It Can be Put into Them, and by which Means they Revolve Perfectly [illegible]

[illegible] Screws Are Japanned Iron Handles, Made from Polished Steel Wire, Perfectly True and Strong. We Furnish Cases of Oak when so Ordered. The Polished and Nickeled Brass Handles and Screws Are Protected by Lacquer, which Prevents Tarnishing. Drawers Are Numbered [illegible] Front to Keep their Stock in Every Shape, Making Case Attractive. Each Drawer Is Provided with a Label Holder and Metal Strip, Which Locks Drawer Fast to Keep their Removal from the Case. Each Drawer Has a Handle and Pocket at Back [illegible] Front of Drawer.

All Numbers on Bolt and Screw Cases will be Changed to Suit Purchaser Without Extra Charge.

SIZE 1 SCREW CASE

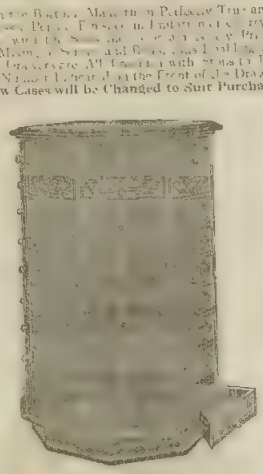
Contains Labeled Drawers for Following Sizes of Screws:

Inches, ⅜x2, 3, 4.
Inches, ⅛x3, 4, 5, 6, 7.
Inches, ⅛x4, 5, 6, 7, 8.
Inches, ¼x4, 5, 6, 7, 8, 9, 10.
Inches, ⅜x6, 7, 8, 9, 10, 11.
Inches, 1x6, 7, 8, 9, 10, 11, 12, 13, 14.
Inches, 1¼x7, 8, 9, 10, 11, 12, 13, 14, 15.
Inches [illegible]
Inches, 1½x8, 9, 10, 11, 12, 13, 14, 15, 16.
Inches, 1¾x9, 10, 11, 12, 13, 14, 15, 16, 17.
Inches, 2x10, 11, 12, 13, 14, 15, 16, 17, 18.
Inches, 2½x12, 13, 14, 15, 16
Inches, 3x16, 18, 20, 22.

SIZE 2 SCREW CASE

Contains Labeled Drawers for Following Sizes of Screws:

Inches, ⅜x2, 3, 4
Inches, ⅛x3, 4, 5, 6, 7.
Inches, ⅛x4, 5, 6, 7, 8.
Inches, ¼x4, 5, 6, 7, 8, 9, 10.
Inches, ⅜x6, 7, 8, 9, 10, 11.
Inches, 1x6, 7, 8, 9, 10, 11, 12, 13, 14.
Inches, 1¼x7, 8, 9, 10, 11, 12, 13, 14, 15
Inches [illegible]
Inches, 1½x8, 9, 10, 11, 12, 13, 14, 15, 16
Inches, 1¾x9, 10, 11, 12, 13, 14, 15, 16, 17.
Inches, 2x10, 11, 12, 13, 14, 15, 16, 17, 18.
Inches, 2½x12, 13, 14, 15, 16.
Inches, 3x16, 18, 20, 22.



SCREW CASES

SIZE 3 SCREW CASE

Contains Labeled Drawers for Following Sizes of Screws:

Inches [illegible]x1, 2
Inches, ⅜x2, 3, 4, 5
Inches, ⅛x3, 4, 5, 6, 7.
Inches, ⅛x4, 5, 6, 7, 8, 9
Inches, ¼x4, 5, 6, 7, 8, 9, 10
Inches, ¼x6, 7, 8, 9, 10, 11, 12, 13
Inches, ⅜x6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
Inches, 1x6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
Inches, 1¼x7, 8, 9, 10, 11, 12, 13, 14, 15, 16
Inches, 1½x8, 9, 10, 11, 12, 13, 14, 15, 16.
Inches, 1¾x9, 10, 11, 12, 13, 14, 15, 16, 17, 18.
Inches, 2x10, 11, 12, 13, 14, 15, 16, 17, 18.
Inches, 2½x12, 13, 14, 15, 16
Inches, 3x16, 18, 20, 22.

SIZE 4—SCREW CASE

Contains Labeled Drawers for Following Sizes of Screws:

Inches [illegible]x1, 2.
Inches, ⅜x2, 3, 4, 5, 6
Inches, ⅛x3, 4, 5, 6, 7, 8
Inches, ⅛x4, 5, 6, 7, 8, 9, 10, 11
Inches, ¼x6, 7, 8, 9, 10, 11, 12
Inches, ⅜x6, 7, 8, 9, 10, 11, 12
Inches, ⅜x6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
Inches, 1¼x7, 8, 9, 10, 11, 12, 13, 14, 15, 16
Inches, 1½x8, 9, 10, 11, 12, 13, 14, 15, 16
Inches, 1¾x9, 10, 11, 12, 13, 14, 15, 16, 17.
Inches, 2x10, 11, 12, 13, 14, 15, 16, 17 18.
Inches, 2½x12, 13, 14, 15, 16.
Inches, 3x16, 18, 20, 22
Inches, 3½x16, 18, 20.

POPLAR WOOD—CHERRY STAINED

		Each				Each
No. 1P	72 Drawers; 60 in. High, 21 in. Wide; Wt. 350 lbs.	$50.50	$4.50	No. 1K	72 Drawers; 73 in. High, 21 in. Wide; Wt. 485 lbs.	$66 00	$4 00
No. 2P	96 Drawers; 80 in. High, 21 in. Wide; Wt. 450 lbs.	66 50	4.50	No. 2K	96 Drawers; 93 in. High, 21 in. Wide; Wt. 615 lbs.	72 00	4 50
No. 3P	80 Drawers; 65 in. High, 21 in. Wide; Wt. 400 lbs.	63 00	4.50	No. 3K	80 Drawers; 65 in. High, 21 in. Wide; Wt. 540 lbs.	82 50	5 00
No. 4P	60 Drawers; 48 in. High, 21 in. Wide; Wt. 300 lbs.	67 00	4.50	No. 4K	60 Drawers; 48 in. High, 21 in. Wide; Wt. 440 lbs.	107 30	71 50

SIZE 1 BOLT CASE

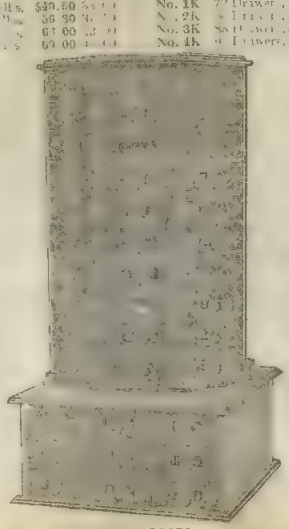
Contains Labeled Drawers for Following Sizes of Bolts:

Tire Bolts

Inches, [illegible], 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
Inches, ¼x1¼, 1½, 2, 2¼, 2½, 2¾, 3.
Inches, 5-16x2, 2¼, 2½.

Carriage Bolts

Inches, ¼x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5.
Inches, 5-16x1½, 1¾, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 6
Inches, [illegible] 2¼, 3, 3¼, 3½, 3¾, 4, 4¼, [illegible]
Inches, [illegible] 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8
Inches, [illegible] 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 11, 12.



BOLT CASES

SIZE 2 BOLT CASE

Contains Labeled Drawers for Following Sizes of Bolts:

Tire Bolts

Inches, 3-16x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
Inches, ¼x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
Inches, 5-16x2, 2¼, 2½.

Carriage Bolts

Inches, ¼x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5.
Inches, 5-16x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 6.
Inches, [illegible]x2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 5, 6
Inches, 7-16x2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 11, 12.

POPLAR WOOD CHERRY STAINED

		Each
No. 1BP	98 Drawers; 60 inches High, 30 in. Wide; Wt. 380 lbs.	$88.00	65.30
No. 2BP	104 Drawers; 65 inches High, 30 in. Wide; Wt. 400 lbs	107.00	71.30

OAK—WITH LABEL HOLDERS

		Each
No. 1BK	98 Drawers; 60 inches High, 30 in. Wide; Wt. 385 lbs.	$124.40	82.75
No. 2BK	104 Drawers; 65 inches High, 30 in. Wide; Wt. 390 lbs.	140.40	91.50

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Dayton, Ohio.

✠REVOLVING CASES

AMERICAN

For Full Descriptive Matter, See Preceding Page

Drawer Sizes

Inside Measurements

Case Nos. 10, 10L, 12 and 12L; Depth 2¾ in.; Length 5¾ in.; Width Front 6 in.; Back 5¼ in.

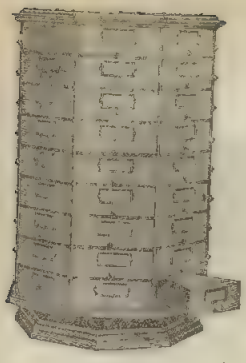
Case Nos. 14, 14L, 16 and 16L; Depth 2¾ in.; Length 6⅝ in.; Width Front 6¾ in.; Back 6¼ in.

Case Nos. 18, 18L and 18LK; Depth 3¼ in.; Length 7⅜ in.; Width Front 8⅝ in.; Back 8¼ in.

Case Nos. 20, 20L, 22, 22L, 22LK and 22LK; Drawers in Revolving Part; Depth 3¼ in.; Length 7¾ in.; Width Front 8⅝ in.; Back 8¼ in.

Base Drawers

Depth 3¾ in.; Width 8 in.; Length 27 in.



POPLAR WOOD; CHERRY STAINED

73 Drawers; 33 inches High; 21 inches Wide

	Each
No. 10 —With Knobs	$33.00
No. 10L—With Knobs & Label Holders. Wt. Each 130 lbs.	49.50 37.50 56.30

80 Drawers; 36 inches High, 21 inches Wide

	Each
No. 12 —With Knobs	$37.50
No. 12L—With Knobs & Label Holders. Wt. Each 135 lbs.	56.30 40.50 60.80

88 Drawers; 39 inches High, 24 inches Wide

	Each
No. 14 —With Knobs	$42.00
No. 14L—With Knobs & Label Holders. Wt. Each 135 lbs.	62.30 44.25 66.40

96 Drawers; 42 inches High, 24 inches Wide

	Each
No. 16 —With Knobs	$46.00
No. 16L—With Knobs & Label Holders. Wt. Each 140 lbs.	69.00 49.00 73.50

Bins

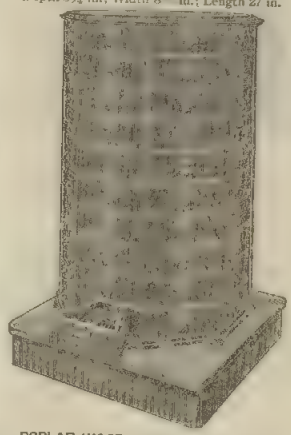
Scales

Ordinary Style

	Each
No. 13—Three Sections, 15 Bins; Height 3 ft.; Weight 225 lbs	$120.00
No. 14—Four Sections, 20 Bins; Height 4½ ft; Weight 300 lbs.	140.00
No. 15—Five Sections, 25 Bins; Height 6 ft; Weight 375 lbs. Loose	160.80
No. NBS—Scales, with Scoop; Adjusted to Raise or Lower to Any Section by Chain	13.00

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory.

Revolving Cases from Dayton, Ohio. Revolving Nail Bins from Wellston, Ohio



POPLAR WOOD; CHERRY STAINED

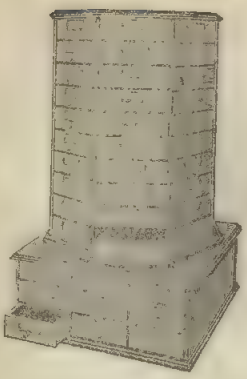
Drawers; 51 Inches High, 30 Inches Wide

	Each
No. 18 —With Knobs	$84.00 52.50
No. 18L With Knobs and Label Holders	92.80 58.00
Wt. Each 260 lbs.	

OAK CASE

With Knobs and Label Holders Each

No. 18LK—80 Drawers; 51 inches High, 31 inches Wide; Weight Each 260 lbs. $108.00 67.50



POPLAR WOOD; CHERRY STAINED

98 Drawers; 60 Inches High, 30 Inches Wide

	Each
No. 20 —With Knobs	$65.30
No. 20L—With Knobs & Labe Holders.. Wt. Each 380 lbs.	98.00 70.50 105.80

104 Drawers; 65 Inches High, 30 Inches Wide

	Each
No. 22 —With Knobs	$71.30
No. 22L—With Knobs & Label Holders. Wt. Each 385 lbs.	107.00 75.00 112.50

OAK CASE

98 Drawers; 60 Inches High, 30 Inches Wide

	Each
No. 20LK With Knobs and Label Holders	$84.75
Weight Each 385 lbs.	135.60

104 Drawers; 65 Inches High, 30 Inches Wide

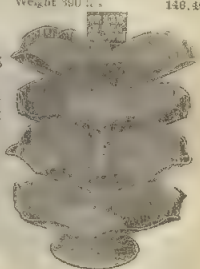
	Each
No. 22LK -With Knobs and Label Holders.	$91.50
Weight 390 lbs.	146.40

✠ SECTIONAL REVOLVING NAIL BINS

All Steel. Saves Time, Space and Nails

Occupies Less than 4 Square Feet of Space, Holds from 20 to 25 Kegs of Nails; Saves Much Time in Waiting on Customers, and Nails are Handier. More Economical than Old Style Bins, Because, Being Near the Aisle, All Over Weight is Thrown Back to the Bin, which is not the Case Where the Clerk has to Walk Some Distance for this Purpose. Is also a Fine Piece of Ornament and Add Tone to the Store.

Each Section is Hung on Finely Adjusted Ball Bearings and Turns Easily, Whether Full or Empty; Each Section Works Independently of Every Other Section; the Upright is Steel Tubing; Bins are Annealed Sheet Steel, Perfectly Finished and Hand Riveted; **Scales are Not Included, Unless Ordered Extra. All Sizes, 4 feet in Diameter**



Improved Style

	Each
No. 23—Three Sections, 15 Bins; Height 3 ft.; Weight 225 lbs	$140.00
No. 24—Four Sections, 20 Bins; Height 4½ ft; Weight 300 lbs.	165.00
No. 25—Five Sections, 25 Bins; Height 6 ft; Weight 375 lbs. Loose	190.00
	Each
	13.00

CASES AND BINS

MADE OF SHEET STEEL

Each Section is hung on Finely Adjusted Ball Bearings and turns easily, whether Full or Empty; each Section works independently of every other Section; the Upright is Steel Tubing; Bins are Annealed Sheet Steel, perfectly Finished and Hand Riveted.

SCREW CASE
Complete with Label Holders

Made entirely of Metal; Base and Top are made of Cast Iron; the Girdle is made of No. 20 Sheet Steel; each Section revolves separately on Machine Bearings and Steel Balls being entirely enclosed makes it Dust Proof; being made entirely of Steel makes it very substantial.

It systematizes the Screw business and gives all sizes and lengths at a glance. No drawers to pull; no woodto Shrink or Swell, making a neat, substantial case which will last a lifetime.

80 Bins

	Each
✠ No. 19S—18 inches in Diameter; 34 inches High; holds 80 different Sizes; Weight Each 150 lbs.....	$80.00

100 Bins

✠ No. 20S—18 inches in Diameter; 42 inches High; Holds 100 different Sizes; Weight each 200 lbs.....	92 00

BOLT CASE FOR SMALL BOLTS
Complete with Label Holders

Made entirely of Metal; Base and Top are made of Cast Iron; the Girdle is made of No. 20 Sheet Steel; each Section revolves separately on Machine Bearings and Steel Balls being entirely enclosed makes it Dust Proof; being made entirely of Steel makes it very substantial.

It systematizes the Screw business and gives all sizes and lengths at a glance. No Drawers to pull; no wood to Shrink or Swell, making a neat, substantial case which will last a lifetime.

70 Bins

	Each
✠ No. 8 24 inches in Diameter; 30 inches High; Holds 70 different Sizes; Weight each 150 lbs.....	$100.00

85 Bins

✠ No. 9—24 inches in Diameter; 36 inches High; Holds 85 different Sizes; Weight each 200 lbs.....	110.00

100 Bins

✠ No. 10S—24 inches in Diameter; 36 inches High; Holds 100 different Sizes.....	...120.00

BOLT CASE FOR LARGE BOLTS
Complete with Label Holder

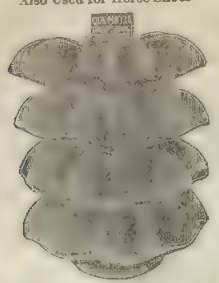
This Bolt Case is in reality a diminutive Nail Bin and is made in Eight different Sizes; each Section has 12 Receptacles for different Bolts; each Receptacle has a Label Holder. It is made Roomy and Stout; each Section revolves separately and the size of each Receptacle is 8x8x15 inches.

Diameter 30 Inches

	Each
36 Bins, 3 Sections	
✠ No. 63—Height 1½ feet; Wt. 100 lbs.	$80.00
48 Bins, 4 Sections	
✠ No. 64—Height 2 feet; Wt. 150 lbs...	90.00
60 Bins, 5 Sections	
✠ No. 65 Height 2½ feet; Wt. 200 lbs.	100.00
72 Bins, 6 Sections	
✠ No. 66—Height 3 feet; Wt. 250 lbs...	110.00
84 Bins, 7 Sections	
✠ No. 67—Height 3½ feet; Wt. 300 lbs.	120.00
96 Bins, 8 Sections	
✠ No. 68—Height 4 feet; Wt. 350 lbs.	130.00
108 Bins, 9 Sections	
✠ No. 69—Height 4½ feet; Wt. 400 lbs.	140.00
120 Bins, 10 Sections	
✠ No. 70—Height 5 feet; Wt. 450 lbs..	150.00

NAIL BINS

For Rivets, Washers, Brads, Tacks and Small Nails
Also Used for Horse Shoes



These Nail Bins are exactly the same as Nos. 23, 24 and 25, except that each Section is divided into Ten Bins.

Diameter 48 Inches

	Each
30 Bins, 3 Sections	
✠ No. 3—Height 3 feet; Weight 250 lbs.....	$110.00
40 Bins, 4 Sections	
✠ No. 4—Height 4 feet; Weight 300 lbs..	164.00
50 Bins, 5 Sections	
✠ No. 5—Height 5 feet; Weight 350 lbs	160.00

DISPLAY STANDS

Made of No. 16 Sheet Steel

This useful Store Fixture is made to display goods. It does this effectually. It is no Toy, but will hold a large amount of goods and when these goods are systematically arranged, they will not have to be handled to be seen, but will come to you and pass by, giving room to the ones which follow and in this way by simply turning the different sections, you see everything, but do not have to handle any. The sections revolve separately. Each Section hangs on finely adjusted balls and turns with the greatest ease, whether full or empty.

Diameter First Section 48 inches; Second Section 45 inches; Third Section 42 inches; Fourth Section 39 inches; Fifth Section 36 inches.

	Each
15 Bins, 3 Sections	
✠ No. 33 Height 3 feet. Wt. 150 lbs.	$100.00
20 Bins, 4 Sections	
✠ No. 34—Height 4 feet; Weight 225 lbs	$120.00
25 Bins, 5 Sections	
✠ No. 35—Height 5 feet; Weight 300 lbs....	140.00

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Wellston, Ohio.

BIRD CAGES

IN ASSORTMENTS

BRASS

No. 960
FANCY OBLONG SQUARE

No. 5002
OBLONG SQUARE

Made of Brass Wires Rivited to Rails or Cross Bars and Closed at the Top into a Heavy Brass Ring; Removable Brass Bottom Self Closing and Self Fastening Doors; Opal Feed Cups; Three Wood Perches; Swing, Feed Cups, etc. Included.

Nos. 3001G and 3002
FANCY OBLONG SQUARE

Nos. 7004 and 7006DB
OBLONG SQUARE

Assorted in Cases of Six

Per Assortment

No. 55—Assortment Contains **Six Cages**; One No. 960, Size 10¾x8½x15½ inches High; One No. 5002, Size 9x8x11½ inches High; One No. 3001G, Size 9⅞x8½x13½ inches High; One No. 3002, Size 10½x8x14 inches High; One No. 7004, Size 9⅝x9x12¾ inches High; and One No. 7006DB with Drawer Base; Weight per Assortment 28 lbs..... **$35.00**

OBLONG SQUARE

Assorted in Cases of Six
All with Brass Wire Guard

Per Assortment

No. 54—Assortment Contains **Six Cages**; One No. 7002G, Size 9x6x12¼ inches High; Two No. 7004G, Size 9⅝x6½x12¾ in. High; Two No. 7006G, Size 10½x7½x13¼ in. High; and One No. 7008G, Size 10½x7½x13½ in. High; Wt. per Case 26 lbs..... **$42.00**

BRASS

Per Assortment

No. 52—Assortment contains **Six Cages**; One No. 7002, Size 9x6x12¼ in. High; Two No. 7004, Size 9⅝x6½x12¾ in. High; Two No. 7006, Size 10½x7½x13¼ in. High and One No. 7008, Size 10¾x7¾x13½ in. High; Weight per Case 26 lbs..... **$26.50**

WHITE ENAMELED BRASS TRIMMED

Per Assortment

No. 6¾—Assortment contains **Six Cages**, One No. 231, Size 9¾x6¾x15¼ in. High; One No. 232; Size 10¾x7x16 inches High; One No. 232G with Guard; Size 10½x7x16 in. High; One No 233 Size 11x7½x16¾ in. High; One No. 233G with Guard, Size 11x7½x16¾ in. High and One No. 234, Size 12¾x8½x17½ in. High; Weight per Case 28 lbs **$24.00**

BIRD CAGES

WHITE ENAMELED; BRASS TRIMMED

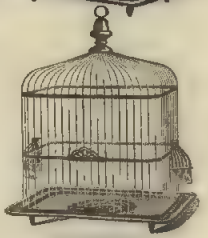
SIX CAGE ASSORTMENT WITH GUARD

Per Assortment

No. 7—Assortment Contains **Six Cages** with Guard, Two No. 231G, Size 9¾x6¾x15¼ inches High, Two No. 232G, Size 10¾x7x16 inches; and Two No. 233, Size 11x7½x16¾ inches; Weight per Case 40 lbs... **$28.00**

Per Assortment

No. 6½—Assortment contains **Six Cages**; Two No. 232, Size 10¾x7x16 in. High; Two No. 233, Size 11x7½x16¾ inches High and Two No. 234, Size 12¾x8¾x17½ inches High; Weight per Case 35 los **$31.00**



No. 165

No. 181

Nos. 061, 062 and 067

No. 159

WHITE ENAMELED

Made of Iron Wire, Enameled White and Decorated in Colors; Wires Pass Through Rails or Cross Bars of Best Charcoal Tin Plate in Tube Form, Double Punched to Give a Firm Hold; Self Adjusting, Self Locking Spring Bottom Fasteners; Furnished with Three Perches, Slotted to Fit Narrowest Width of Cage; Complete, with Swings, Feed Cups, etc.

Per Assortment

No. 4—Assortment Contains **Six Cages**; One No. 061, Size 8¾x8¾x16½ inches High; One No. 168, Size 12¼x8¾x17½ inches High; One No. 067, Size 11x7½x16½ inches High; One No. 181, Size 8x8x17¼ inches High; One No. 165, Size 9¾x6¾x15¼ inches High, and One No. 159; Size 7½x7½x15 inches High; Weight per Case 24 lbs..... **$15.00**

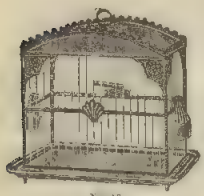
One Assortment in a Case; We Do Not Break Cases.

BIRD CAGES

WHITE ENAMELED

In Cases of Six Assorted Cages

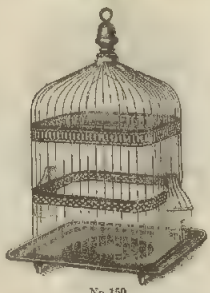
Made of Iron Wire, Painted White and Decorated in Colors; Wires Pass Through Rails or Cross Bars of Best Charcoal Tin Plate in Tube Form, Double Punched to Give a Firm Hold; Self Adjusting, Self Locking Spring Bottom Fasteners; Furnished with Three Perches Slotted to Fit Narrowest Width of Cage; Complete with Swings, Feed Cups, etc.



No. 45

No. 180

No. 011



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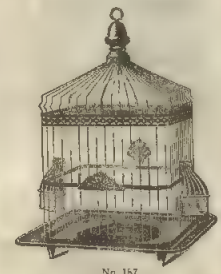
No. 105



No. 157

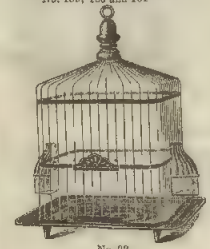
Per Assortment

No. 5—Assortment Contains Six Cages; One No. 157, Size 8¾x8¾x16½ inches High; One No. 45, Size 12x8x15 inches High; One No. 011, Size 10½x10½x16 inches High; One No. 105 Size 11x7¾x18 inches High; One No. 180, Size 7½x7½x16½ inches High, and One No. 150, Size 9½x9½x18½ inches High; Weight per Case 30 lbs. $20 00

One Assortment in a Case; We Do Not Break Cases.

No. 159, 160 and 161

Nos. 165 and 166



No. 02

Per Assortment

No. 22—Assortment Contains Six Cages: One No. 159, Size 7½x7½x15 inches High; One No. 160, Size 8x8x15½ inches High; One No. 161, Size 8¾x8¾x16½ inches High; One No. 165, Size 9¾x6¾x15¼ inches High; One No. 166, Size, 10½x7x16 inches High, and One No. 02, Size 8¾x8¾x13¾ inches High; Weight per Case 25 lbs. $13 50

Nos. 065 and 066

No. 06

Nos. 059, 060 and 061

Per Assortment

No. 3—Assortment Contains Six Cages; One No. 065, Size 9¾x6½x15½ inches High, One No. 066, Size 10½x7x16 inches High; One No. 06, Size 8½x6x14½ inches High; One No. 059, Size 7½x7½x15 inches High; One No. 060, Size 8x8x16 inches High, and One No. 061, Size 9¾x8¾x16½ inches High Weight per Case 24 lbs $14 50

One Assortment in a Case; We Do Not Break Cases.

BIRD CAGES

BRASS

IN ASSORTMENTS

Per Assortment

No. 100—Assortment of Six Cages, Consisting of Three Brass Cages, with Solid Brass Rail, Spun Brass Base, and Fitted with Brass Wire Guard, Sizes 10x16, 11x16½ and 11½x18 inches; and Three Fancy Japanned Cages; White Enameled, with Brass Guard; Colored Trimmings, Gold Stripes and Decorated Base; Sizes 10x16¾, 11x17½, and 12x18 inches; Weight per Assortment 25 lbs. **$42 00**

One Assortment in a Case. We Do Not Break Assortments

BRASS, FANCY OBLONG SQUARE

Per Dozen

No. 960—10¾x8½ inch Body; Height 15½ inches; Weight per Dozen 34½ lbs. **$84 00**

Loose.

BRASS, FANCY OBLONG SQUARE

With Brass Wire Guard and Removable Drawer in Base.

Per Dozen

No. 445DB—10¾x8½ inch Body; Height 15½ inches; Weight per Dozen 57 lbs. **$170.00**

Loose.

Similar Construction as those described above.

Per Dozen

No. 5004—9¾x6¼ inch Body; Height 11¾ inches; Weight per Dozen 21¾ lbs. **$48.00**

No. 5006—10¼x7¼ inch Body; Height 12¼ inches; Weight per Dozen 24¾ lbs **52.00**

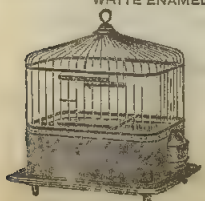
No. 5008—10¾x7¾ inch Body; Height 12½ inches; Weight per Dozen 26 lbs. **66.00**

Loose.

SOLD SEPARATELY

Made of 17 Gauge Brass Wire, Riveted (not Soldered) to the Rails or Cross Bars, and Closed at the Top into a Heavy Brass Ring; Removable Brass Bottom with Tin Mat; Self Closing and Self Fastening Doors; Opal Feed Cups Fit any Part of the Cage; Furnished with Three Metal Tipped Perches, Slotted to Fit the Narrowest Width of Cage; Complete With Swing, Feed Cups, and perches.

WHITE ENAMELED, GOLD TRIMMED



With Brass Wire Guard

Per Dozen

No. 232G—10¼x7 inch Body; Height 16 inches; Weight per Dozen 23½ lbs. **$56.00**

No. 234G—12¼x8¼ inch Body; Height 17½ inches; Weight per Dozen 30 lbs. **69.00**

Without Guard

No. 231—9¾x6¾ inch Body; Height 15¼ inches; Weight per Dozen 22½ lbs **$29.00**

No. 233 —11x7½ inch Body; Height 16¾ inches; Weight per Dozen 25 lbs. **44.00**

No. 235 —13x8¾ inch Body; Height 18 inches; Weight per Dozen 33¼ lbs. **52.00**

Loose

PARROT CAGES

Made of No. 12 Tinned Wire Passing Through Tinned Steel Rails, Secured to Tin Rim at Top; Japanned Zinc Base, Improved Door Fastening; Two Tin Seed Cups; Wood Perch and Swing.

Per Dozen

No. 80—Diameter 14 inches; Height 22 inches; Weight per Dozen 84 lbs. **$80.00**

No. 85—Diameter 15½ inches; Height 24 inches; Weight per Dozen 100 lbs. **100.00**

No. 90—Diameter 17½ inches; Height 29 inches; Weight per Dozen 132 lbs. **140.00**

Loose.

Per Nest

No. PC3N—Nest of Three Cages, Nos. 80, 85 and 90 as Described above; Weight per Nest 26 lbs. **$26.50**

One Nest in a Case; We Do Not Break Cases.

WHEEL CAGES

Revolving Perch Sections; Bright Enameled Wire, with Fancy Stamped Tin Front and Trimmings; Four Perches; Wire Carrying Handle; Affords a Delightful Exercise to Birds

Per Dozen

No. 1500—13¼x8½ inch Body; 10¾x12 inch Base; 19 inches High; Weight per Dozen 52 lbs. **$66.00**

Loose.

CANARY, ROBIN AND MOCKING BIRD CAGES

Nested

Rosewood Frame; Tinned Wire Body with Ornamental Front; Sliding Wood Drawer; Self Closing Spring Doors; Complete with Partitions, Seed Cups, Perches, etc.

Dimensions of Cages

Canary, Size 17x9½x16 inches.
Small Robin, Size 19½x11¾x18½ inches.
Large Robin, Size 22x12½x22½ inches.
Small Mocking Bird, Size 23½x14x22½ inches.
Large Mocking Bird, Size 25½x15x23½ inches

Per Nest of Five

No. WF1 Nest Contains One Each, Canary, Small Robin, Large Robin, Small Mocking Bird and Large Mocking Bird; Weight per Nest 75 lbs. **$22.00**

Per Nest of Four

No. WF2—Nest Contains One Each, Small Mocking Bird, Large Mocking Bird, Small Robin and Large Robin; Weight per Nest 73 lbs. **$16 50**

Per Nest of Three

No. WF4—Nest Contains One Each, Small Mocking Bird, Large Mocking Bird and Large Robin; Weight per Nest 65 lbs. **$15.50**

No. WF6—Nest Contains One Each, Small Robin, Large Robin and Canary; Weight per Nest 45 lbs. **12.00**

One Nest in a Case; We Do Not Break Cases

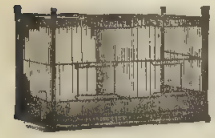
SQUIRREL CAGES
OCTAGON ALL METAL

Each

No. 020—Body is made of No. 12 Tinned Wire; Japanned Tin Top and Body; Decorated in Colors, Length of Body 24 inches; Width 16 inches; Height 22 inches; Size of Dome 12x12 inches; Size of Tread Wheel 12x9 inches; Weight Each 18 lbs..... $10.00

One in a Case.

BREEDING CAGES



Per Assortment

No. DBA—Assortment Contains Three Cages, One, Size 19x10x13½ inches; One, Size 21x11x14 inches; and One, Size 23x12x16½ inches; Weight per Nest 50 lbs..... ..... $15.00

One Assortment in a Case; We Do Not Break Cases.

BIRD CAGE SPRINGS

Brass Plated Coil Spring

Per Dozen

No. 10—With Hook and Ring; Length 3¼ inches; Weight per Dozen ½ lbs.. $0.70

One Dozen in a Box

Brass Suspension Spring

Per Dozen

No. 16—With Hook and Ring; Length Overall 3¼ inches; Weight per Dozen ½ lb. $1 80

One Dozen in a Box

Extra Heavy Brass Spring

Per Dozen

No. 14—With Hook and Ring; Length Overall 3½ inches; Weight per Dozen ¾ lb. $4.50

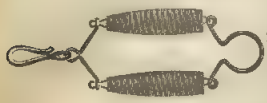
One Dozen in a Box

Brass Suspension Spring and Ladder Chain

Per Dozen

No. 182—With 3¼ inch Spring and 24 inch Chain; Hook and Ring; Weight per Dozen 8 lbs..... ..... $4.50

One Dozen in a Box



Brass Duplex Spring

Per Dozen

No. 19—With Hook and Ring; Length over all 8½ in.; Weight per Dozen 4 lbs..... $5.50

One Dozen in a Box

BIRD CAGE HOOKS

Stationary Wire Hooks

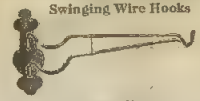
Brass Plated Hardened Steel; 1¾ inch Cast Shoulder; 1 inch Screw

Per Dozen

No 6—3 inches Long; Weight per Dozen 2¼ lbs..... $1.20

One Dozen in a Box

BIRD CAGE HOOKS

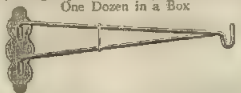


Swinging Wire Hooks

Extra Heavy Per Dozen

No. 111—Brass Plated Steel; Length 10 inches; Size of Plate 5x1⅜ inches; Weight per Dozen 3¼ lbs..... ..... $2.20

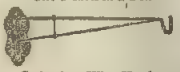
One Dozen in a Box



Per Dozen

No. 11—Brass Plated Steel; Length 10 inches; Size of Plate 4x1⅜ inches; Weight per Dozen 2¾ lbs..... $2.00

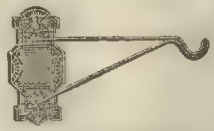
One Dozen in a Box



Swinging Wire Hooks Per Dozen

No. 223—Nickel Plated Steel; Length 8 inches; Size of Plate 2⅛x1⅜ inches; Weight per Dozen 1½ lbs..... $1.50

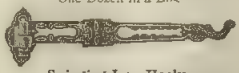
One Dozen in a Box



Stationary Wire Hooks Per Dozen

No. 1280—Amber Bronzed; 9 inch Steel Wire Hook; 5¾x2¼ inch Iron Plate; Weight per Dozen 6 lbs... ..... $1 80

One Dozen in a Box



Swinging Iron Hooks Per Dozen

No. 3024½—Amber Bronzed; 10½ inches Long; 2¾x1¼ inch Iron Plate; Weight per Dozen 10 lbs..... $0 90

One Dozen in a Box

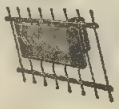
BIRD CAGE CUPS

For Japanned Cages

Per Dozen

No. JCC—Flint Glass; Size 3¾x2 inches; Weight per Dozen 2½ lbs.. ..... $1 00

Loose.



For Brass Cages

Per Dozen

No. BCC—Opal Glass, Size 3x1½x1¼ inches Deep; Weight per Dozen 3½ lbs... $1 10

Loose.

BIRD BATHS

Medium Size; 5¼x3¼x1½ in. Per Dozen

No. FGB—Flint Glass..... $1 00

No. OGB—Opal Glass; Weight per Dozen 5¾ lbs..... 1 40

Loose.

BIRD NESTS

Per Dozen

No. BN—Made of Wire Cloth with tin Rim; Wire Hook; Diameter 4 inches; Depth 2 inches; Weight per Dozen ¼ lb. $1 10

Loose

ICE CREAM FREEZERS

Tinned Malleable Iron Dasher with Revolving Triple Stirring Paddle and Automatic Twin Scrapers; The Scrapers are Hung on Dasher, so their Lower Ends Come in Contact with the Bottom of the Can, and the Friction Produced by the Revolving Can Moves the Scrapers Against the Side of the Can and Holds them Positively.

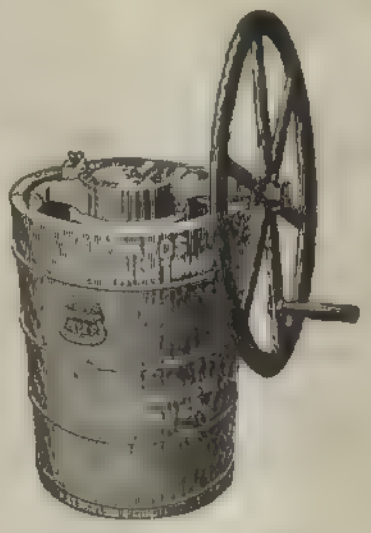
The Wheel Dasher Revolves Continuously During the Final Freezing of the Cream and Produces a Velvety Smoothness, Entirely Free from Lumps

The Can is Made of Heavy Tin Plate of the Finest Quality; the Top is Strongly Wired and Turned Over, while the Lower Part is Made to Fit Over and Under the Drawn Steel Bottom. The Bottom will not Break Nor Fall out of Can and is not Liable to Injury, as with Tin Plate or Cast Iron Bottoms; Detachable Hinged Top Frame; the Gears are Completely Covered so that Ice or Salt Cannot Get in the Cogs nor the Fingers be Accidentally Caught in them; all Parts Inside the Can are Heavily Tinned, the Outer Castings Galvanized. The Tub is Made of Best White Pine with Electrically Welded Galvanized Steel Wire Hoops, which will not Fall Off or Break.

LIGHTNING
With Crank

Quarts	1	2	3	4	6
Weight, Lbs.	7	10	11	14	18
Each	$2.60	3.10	3.60	4.40	5.60
Quarts	**8**	**10**	**12**	**14**	
Weight, Lbs.	24	31	34	43	
Each	$7.20	9.30	11.50	13.50	

Loose; Wrapped in Paper



JUMBO LIGHTNING
With Fly Wheel

Quarts	14	20
Weight, Lbs.	62	90
Each	$18.50	26.50

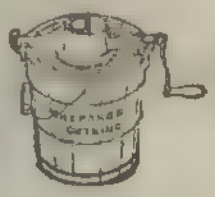
Loose; Wrapped in Paper

BLIZZARD

Single Action; The Can Only Revolving, Heavily Tinned Malleable Iron Dasher with Automatic Twin Scrapers. The Can and Tub are the Same as Used on the Lightning Freezer Described Above; Galvanized Detachable Hinged Top Frame and Covered Gears.

Quarts	1	2	3	4
Weight, Lbs.	6	9	10	13
Each	$2.40	2.90	3.30	4.00
Quarts	**6**	**8**	**10**	**12**
Weight, Lbs.	16	20	27	29
Each	$5.10	6.50	8.40	10.00

Loose; Wrapped in Paper



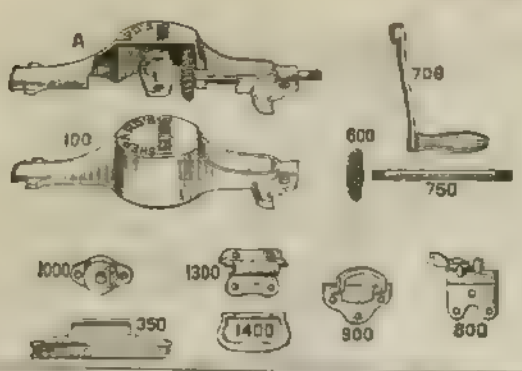
LIGHTNING TOYS

For Use in the Sick Room and for Individual Service; a Useful Toy for Children; Constructed in Every Way Like the Lightning Freezers Described Above; The Tub is Varnished Outside.

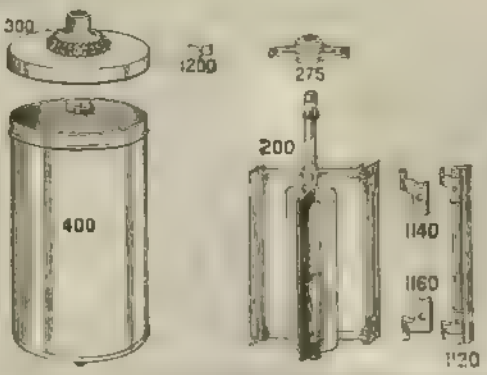
No.	LTP
Pints	1
Weight, Lbs.	2
Per Dozen	$24.00

Loose; Wrapped in Paper

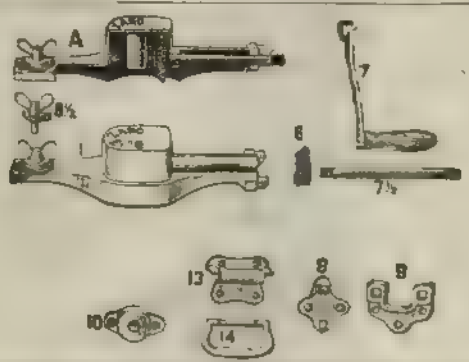
EXTRA PARTS FOR FREEZERS



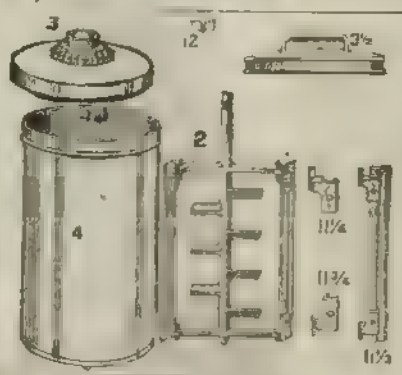
FOR LIGHTNING FREEZERS



Nos.	Part	Quarts 1 Weight, Lbs.	Each	2 Weight, Lbs.	Each	3 Weight, Lbs.	Each	4 Weight, Lbs.	Each	6 Weight, Lbs.	Each	8 Weight, Lbs.	Each	10 Weight, Lbs.	Each	12 Weight, Lbs.	Each	14 Weight, Lbs.	Each
	Pail, with Handle Only	1 3-4	$0.80	2 1-2	$0 96	3 1 8	$1.12	4 1 16	$1.36	5 1 4	$1 68	6 7 8	$2 16	9 1 4	$2 88	9 7 8	$3 60	14 3 8	$5 36
✢	Pail, with Handle and Parts Nos. 800, 900 and 1000	2 3-16	.96	3 1-8	1.12	3 3-4	1.36	4 11-16	1.60	5 7-8	2.00	7 5-8	2.56	10 1-8	3.44	10 3-4	4.16	15 1-2	5.76
A	Cross Bar, with all Parts Complete	1 3-4	72	2 1-2	.80	2 3-4	.96	3 5-8	1.12	4 5-8	1 36	6 3-8	1 92	7 3-16	2 56	7 7-8	3.04	15 1-4	3.60
100	Cross Bar, Only	1 3-8	56	1 7 8	64	2	72	2 7 8	.88	3 1 2	1 12	4 5-8	1 44	5 3 16	1 92	6	2 32	7 1 2	2 80
200	Dasher Shaft	7-8	40	1 5-16	48	1 5-8	.56	2	72	2 1 2	95	3 3-8	1 20	4 3 8	1 76	4 5-8	2 08	6	2 40
275	Dasher Holder and Screws	3 16	16	1-4	.16	5 16	.24	3 8	24	7 16	32	3-4	32	3-4	32	3-4	32	1 1-8	32
300	Freezer Can Cover (Top)	3 4	32	[illegible]	40	1 1-8	48	1 15 16	.56	[illegible]	72	2 7-16	96	2 7-16	1 28	3 11-16	1 44	4 1 16	1 60
350	Packing Can Cover (Tin)	1 2	40	9 16	48	5-8	56	1 [illegible]	64	3-4	80	9 16	96	7 8	1 12	7 8	1 20	15 6	1 44
400	Can Only	13-16	48	1 1 16	56	1 1-4	72	1 1 2	.88	1 3-16	1 12	2 9 16	1 14	2 3 4	1 12	3 1 8	2 16	4 1 2	2 40
600	Dasher Gear	8	16	5 16	16	3 16	16	1 4	16	5 16	24	7 2	24	9 6	24	5 16	24	5-8	24
700	Crank	8	24	5 8	.24	5 8	.24	1 [illegible] 16	24	[illegible] 16	32	5 16	32	1	40	1 1-8	40	3 16	40
750	Crank Shaft	5 16	16	5 16	.16	5-8	16	3 8	16	5 16	24	7 2	24	11-16	24	11-16	24	[illegible]	24
800	Lock Lever (Crank Side of Pail	1 4	08	5 16	08	5 16	08	3 8	16	3 8	16	5 16	24	7 16	24	7 16	24	[illegible]	24
900	Hinge Lug	1 8	08	5 16	08	5 16	08	1 4	.16	1 4	.16	5 16	24	7 16	24	7 16	.24	9 16	24
✢1000	Center Piece, for Pail Bottom	3 16	08	3-16	.08	3-16	.08	3-16	.08	3-16	.08	3-16	.08	3-16	.08	3-16	.08	3-16	.08
1120	Wood Scraper (with Hinges)	1 8	16	1-8	.16	3-16	.16	1-4	.16	1-4	.16	1-2	.24	5-8	.24	5-8	.24	5-8	.24
1140	Upper Scraper Hinge	1 16	08	1-16	.08	1-8	08	1 8	.08	1-8	.08	3-16	08	3 16	.08	3 16	.08	3 16	08
1160	Lower Scraper Hinge	1 16	08	1 16	.08	1-8	.08	1 8	.08	1-8	.08	3-16	08	3-16	.08	3 16	.08	3 16	08
1200	Carrier, Soldered to Inside at Top of Can	1-16	.08	1-16	.08	1-16	.08	1-16	.08	1-16	.08	1-16	.08	1-16	.08	1-16	.08	3-16	.08
✢1300	Plate for Side Handle													16	.08	1-16	.08	3-16	.08
✢1400	Side Handle													9 16	.08	9 16	.08	9-16	16
	Extra Bail	1 8	.20	1 4	.20	1-8	.20	1 4	.20	1-4	.20			1 2	20	1 2	.20	1 2	20



FOR BLIZZARD FREEZERS

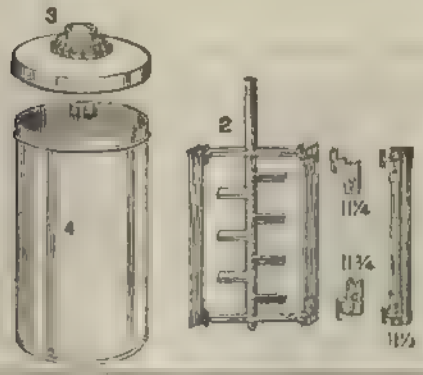


Nos.	Part	Quarts 1 Weight, Lbs.	Each	2 Weight, Lbs.	Each	3 Weight, Lbs.	Each	4 Weight, Lbs.	Each	6 Weight, Lbs.	Each	8 Weight, Lbs.	Each	10 Weight, Lbs.	Each	12 Weight, Lbs.	Each	14 Weight, Lbs.	Each
	Pail, with Handle Only	1 3-4	$0 80	2 9-16	$0 96	3 3-16	$1 12	4 5-16	$1 32	5 5-16	$1-68	6 3-4	$2 16	9 1 4	$2.88	10	$3 60	11 3-16	$4 24
✢	Pail, with Handle and Parts Nos 6, 9 and 10	2 3-16	.96	3 1-8	1 12	3 1-2	1.36	4 9-16	1.60	5 13-16	2 00	7 1-2	2.50	10 3-16	3 44	10 1-2	4 16	11 3-16	4 80
A	Cross Bar, with all Parts Complete	1 5-8	48	2 1-8	.56	2 1-4	.72	2 5-8	.88	3 7-8	1.04	4 3-16	1.32	6 1-4	1.76	5 7-8	1.92	6 1-2	2.16
1	Cross Bar, Only	1 1-8	32	1 11-16	40	1 7-8	.48	2 1 4	56	3 3 8	72	3 9 16	96	4 1 4	1 28	4 7 8	1 60	5 1-2	1 84
2	Dasher Shaft	3 4	40	1 5 16	48	1 5 16	56	1 9 16	72	2 [illegible]	96	2 5 8	1 20	3 3 8	1 76	3 9-16	2 08	4 1 16	2 40
2½	Packing Can Cover (Top)	1 [illegible]	32	[illegible]	40	1 3-16	48	1 3-4	56	[illegible]	73	3 1 16	96	[illegible] 16	1 28	3 1-8	1 44	4 5-16	1 60
4	Can Only	13-16	48	[illegible] 16	56	1 1-4	72	1 1 2	88	1 13 16	1 12	[illegible] 16	1 44	7 8	1 12	7 8	1 28	15-16	1 44
6	Dasher Gear	1 8	16	1 4	16	3-8	16	5 8	16	5 8	24	3 8	24	1 1-4	1 92	5 1-8	2 16	3 1 2	2 40
7	Crank	5 16	24	5-8	24	5-8	24	1 [illegible] 16	24	1 3-16	32	15-16	32	1 1 16	24	1 [illegible] 16	24	11 16	24
7½	Crank Shaft	5 16	16	5-8	16	3-8	16	3 8	16	7 16	24	1 2	.24	1 1-16	24	1 1-16	24	1 3 16	24
8	Hook, for Top of Pail	1 8	.08	3-16	08	3 16	.08	3 16	16	3 16	16	3 16	16	5 16	.24	11-16	24	5 8	40
8½	Cotter (for Hook) with Rivet	1-8	.16	1-8	16	1-8	16	1-8	.16	1-8	.16	3 16	16	5 16	24	5 16	.24	3 8	.24
9	Side Piece, for Top of Pail, Crank Side	3-16	.08	5-16	.08	5 16	08	5-16	16	7 16	.16	5-16	.16	7 16	24	7-16	24	1 2	.24
✢10	Center Piece (for Pail Bottom)	1 16	.08	3 16	08	3 16	.08	3 16	.08	3 16	.08	3 16	08	3 16	08	3-16	08	3-16	.08
11½	Wood Scraper (with Hinges)	1 8	.16	1 8	.16	3-16	16	1 4	16	1 4	16	1 2	24	5 8	24	5-8	24	5-8	.24
11¼	Upper Hinge for Scraper	1 16	.08	1 16	08	1-8	08	1 8	08	1-8	08	3-16	08	3 16	08	3 16	08	3-16	.08
11¾	Lower Hinge for Scraper	1-16	.08	1 16	08	1-8	.08	1-8	.08	1-8	.08	3-16	08	3 16	.08	3 16	08	3-16	.08
✢12	Carrier, Soldered to Inside at Top of Can	1 16	.08	1-16	08	1-16	.08	1-16	08	1-16	08	1-16	.08	1 16	08	1-16	08	1-16	08
✢13	Plate for Side Handle													9 16	16	9 16	16	9-16	16
✢14	Side Handle													1 8	.16	1-8	.16	1-8	.16
	Extra Bail	1-8	.20	1 4	.20	1-8	.20	1 4	.20	1-4	.20								

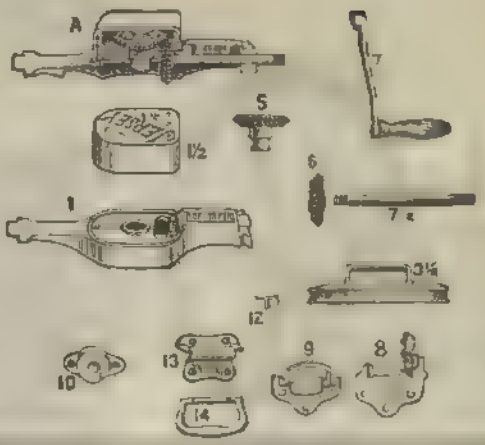
The Minimum Charge on Any Invoice Will be 10 cents

Items marked ✢ Not Carried in Stock; Can Only Be Furnished By Shipping Direct from Factory, Philadelphia, Pa.

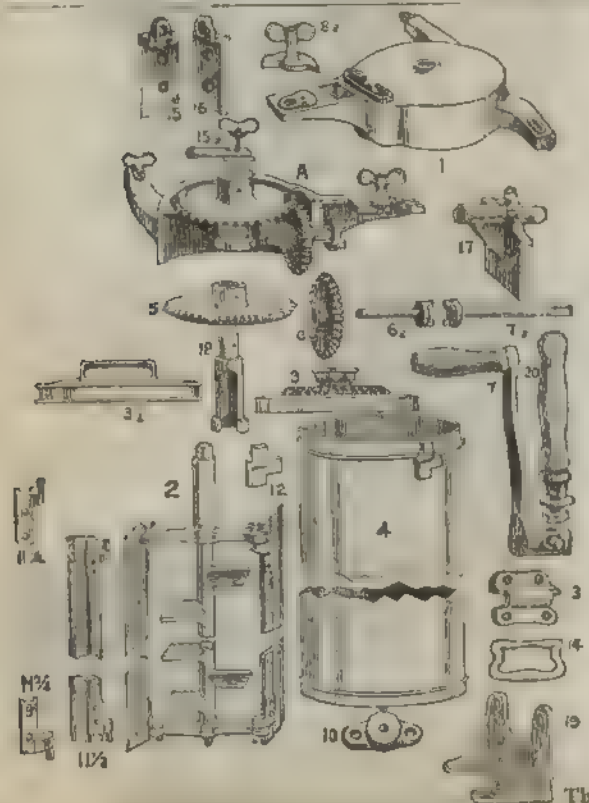
EXTRA PARTS FOR FREEZERS



FOR JERSEY FREEZERS



Part Nos.	Part	Quarts 1 Weight Lbs.	1 Each	2 Weight Lbs.	2 Each	3 Weight, Lbs.	3 Each	4 Weight, Lbs.	4 Each	6 Weight Lbs.	6 Each	8 Weight, Lbs.	8 Each	10 Weight Lbs.	10 Each	12 Weight Lbs.	12 Each	14 Weight, Lbs.	14 Each
JF	Pail, with Handle Only	1 3-4	$0 80	2 9-16	$0.96	3 3-16	$1 12	4 5-16	$1.36	5 5-16	$1.60	6 13-16	$2.16	9 1-4	$2.88	9 5-16	$3.60	11 3-16	$4.24
✢JPH	Pail, with Handle and Parts Nos. 8, 9 and 10	2 1-4	.96	3	1 12	3 3-4	1.36	4 3-4	1.60	6 1-8	2 00	7 3-4	2 36	10 6	3 44	10	4 16	12 1-4	4 80
JA	Cross Bar, with all Parts Complete	1 15-16	.72	2	80	2 15-16	.96	3 7-16	1 12	5 5-16	1 36	5 7-8	1 92	8 1-8	2 88	8 3-8	3 04	11 1-4	3 60
J1	Cross Bar, Only	13-16	.32	1	40	1	.48	1 1-4	56	2 5-16	72	3	96	5	1 28	5 3-8	1 52	4	1 84
J1½	Cap for Cross Bar, with Screws	1-16	.24		24	13-16	.24	1	32	1 1-4	40	1 1-2	48	2	64	2	80	2 9-16	96
J2	Dasher, with Scrapers and Hinges	3-4	.40	1	48	15-16	.56	1 3-16	72	1 5-16	96	2 5-8	1 20	3	1 76	3	2 08	4 1-16	2 40
J3	Freezer Can Cover (Iron)	1 1-16	32	1	40	13-16	.48	1 3-4	56	2 3-16	72	2 11-16	96	3 3-16	1 28	3	1 44	4 1-16	1 60
J3½	Packing Can Cover (Tin)	1-2	40	1-16	48	1	.56	1 1-16	64	1 1	80	13-16	96	1	1 12	1	1 28	15-16	1 44
J4	Can Only	13-16	.48	1 1-16	56	1 1-4	.72	1 1-2	88	15-16	1 12	1 1-16	1 44	2 1-4	1 92	2 1-2	2 16	2 1-2	2 40
J5	Upper Gear (in Cap of Cross Bar)	1-4	24	5-16	24	1-2	24	5-8	24	15-16	32	1 1-16	32	1 1-16	32	1 1-16	32	1 1-8	32
J6	Driving Gear (End of Shaft)	1-8	16	1-4	16	1-2	16	3-8	16	5-8	24	3-4	24	1 1-16	24	1 1-16	24	1 1-16	24
J7	Crank	7-16	24	5-8	24	3-4	24	1 1-16	24	1 3-16	32	1 1-4	32	1	40	1 1-8	40	1 1-16	40
J7½	Crank Shaft	5-16	16	5-16	.16	1-2	16	3-8	16	1	24	1 1-2	24	1 1-16	24	1 1-16	24	1-8	24
J8	Lock and Crank Side of Pail	5-16	08	3-8	.08	3-8	.08	7-16	16	9-16	16	9-16	16	1 1-16	24	1 1-8	.24	1-8	24
J9	Side Piece (Top of Pail, Opposite Crank)	3-16	08	1-4	08	1-4	.08	1-4	16	1-4	16	5-16	16	3-8	24	3-8	24	3-8	24
✢J10	Center Piece, for Pail Bottom	1-16	08	3-16	08	3-16	08	1-8	08	1-8	08	1-8	.08	5-16	08	5-16	08	3-16	08
J11½	Wood Scraper, with Hinges	1-8	.16	1-4	16	3-16	.16	1-4	16	1-4	16	1-4	24	1-8	24	1-8	24	1-8	24
J11¼	Upper Hinge for Scraper	1-16	.08	1-16	08	1-8	.08	1-8	08	1-8	08	1-16	08	5-16	08	3-16	08	3-16	08
J11¾	Lower Hinge for Scraper	1-16	.08	1-16	08	1-8	.08	1-8	08	1-8	08	1-16	08	5-16	08	3-16	08	3-16	08
✢J12	Carrier, Soldered to Inside at Top of Can	1-16	.08	1-16	08	1-16	.08	1-16	08	1-16	08	1-16	08	1-16	08	1-16	.08	1-16	08
✢J13	Plate for Side Handle											1-2	.16	9-16	16	9-16	16	9-16	16
✢J14	Side Handle		.20	1-16	.20	1-16	.20	1-16	20	1-16	20			1-2	16	1-2	16	1-2	.16
	Extra Dasher																		



✢FOR GIANT JERSEY FREEZERS

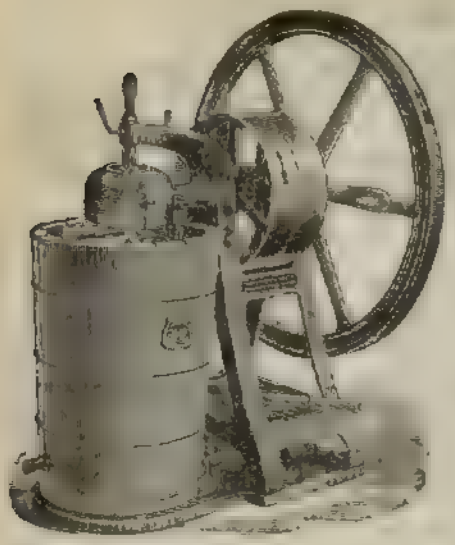
Part Nos.	Part	Quarts 14 Weight Lbs.	14 Each	18 Weight Lbs.	18 Each	24 Weight, Lbs.	24 Each	32 Weight, Lbs.	32 Each
GP6	Pail, with Handles Only	5 1-2	$5 75	21 1-4	$7 04	24 1-8	$8 96	30 3-4	$11 24
GPC	Pail, with Handles and Parts Nos. 9, 15, 16 and 17	1 1-2	6 80	20 5-16	8 80	25 15-16	10 96	35 1-4	13 20
GA	Cross Bar, with Parts Complete	11	4 56	13 1-4	5 60	13 1-2	5 80	15	5 04
G1	Cross Bar, Only	4 5-16	2 48	12 1-8	3 20	2 1-8	4 00	12 1-2	4 80
G2	Dasher Shaft	4 7-16	2 56	5 3-8	3		4 00	8 1-16	3 36
G3	Freezer Can Cover (Iron)	5 7-8	1 76	4 1-16	2	5 3-16	2 80	6 1-16	2 00
G3½	Packing Can Cover (Tin)	11-16	1 44	3-4	1 60	1	1 76	1 1-4	6 80
G4	Can Only	6 3-4	3 44	8 1-2	4 40	8 1-4	5 60	10 3-8	1 04
G5	Upper Gear	1 1-2	64	2	1 04	3	1 04	5	64
G6	Driving Gear	1 3-16	48	1 3-8		1 7-8	64	1 3-8	48
G6½	Cut-Shaft for Driver Gear	5-8	32	3-8	48	3-8	48	5-8	72
G7	Crank	1 7-16	40	1 9-16	48	1 11-16	48		
G7½	Crank Shaft	5-8	60	13-16	72	7-8	72	1	72
G8½	Catch to Hold Cross Bar	1-8	16	1-8	16	1-8	16	1-8	16
G10	Center Piece, Soldered to Bottom of Pail	5-16	.08	5-16	16	5-16	16	5-16	16
G11½	Wood Scraper, with Hinges	5-16	24	1-2	24	1-2	24	9-16	24
G11¼	Upper Hinge for Scraper	1-8	08	1-8	08	1-8	08	1-8	08
G11¾	Lower Hinge for Scraper	1-16	08	1-8	.08	1-8	08	1-8	08
G12	Carrier, Soldered to Outside Top of Can	7-16	08	5-16	08	5-16	08	5-16	08
G13	Plate for Side Handle	1-2	16	5-16	24	5-16	24	5-16	24
G14	Side Handle	1-2	16	5-16	24	5-16	24	5-16	.24
G15	Pivot, Right Hand	1-8	16	5-8	24	5-8	.24	5-8	.24
G15½	Bolt and Screw to Support Cross Bar	1-16	16	1-8	16	1-8	16	1-8	.16
G16	Pivot, Left Hand	5-16	16	9-16	24	9-16	.24	9-16	24
G17	Bearing, for Crank Shaft, with Bolts	2 1-16	64	2 7-8	80	3	80	3 1-8	80
G18	Socket Shaft	1-2	40	1 1-8	56	1 1-8	56	1 1-8	56
G19	Support for Pail			1 1-16	56	1 1-16	56	1 1-16	56
G20	Handle and Bolt	5-8	40	5-8	40	5-8	40	5-8	40
G21	Wrench	3-16	24	3-16	24	1-4	24	5-16	24
GFW	Fly Wheel	3	4 80	20 1-4	5 72	31 1-2	7 20	54	9 60

The Minimum Charge on Any Invoice Will be 10 cents

Items marked ✢ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Philadelphia, Pa.

✣MACHINE ICE CREAM FREEZERS

For Power or Hand Use



IMPROVED PHILADELPHIA

With Tight and Loose Pulleys, Each 18x4 inches, and 42 inch Fly Wheel Weighing 175 lbs. Should Run About 150 Revolutions per Minute to Give Can About 100 Revolutions.

Height of Driving Shaft Above Floor 33½ inches; Base Plate 38x24½ inches.

The Can and Dasher Both Revolve and in Opposite Directions.

The Can is Made of 18 Gauge Steel, Riveted-In Seam with Heavy Malleable Iron Bottom and Heavily Coated with Pure Block Tin; The Top of Can is Reinforced with Heavy Steel Band.

The Dasher is Malleable Iron, Heavily Coated with Pure Block Tin, with Two Rolled Steel Side Scrapers and One Bottom Scraper.

The Tub is Made of 1¼ inch White Cedar, with Staves Tongued and Grooved and Bound with Electrically Welded, Galvanized Steel Wire Hoops.

40 Quart Only

	Each
✣ **No. 4012T**—With Pulleys and Fly Wheel; Weight 640 lbs.	**$128 00**

Loose

NOTE—Machine Freezers with Copper Cans Furnished when Specified, Add to Price, Each **$18.00**

✣ICE BREAKERS

For Power or Hand Use

For Breaking Ice in Small Pieces, for Use in Freezing Ice Cream and Sherbets for Ice Cream Parlors, Confectioners, Hotels and Restaurants, and for Packing Fish, Oysters, Milk, etc., or where Broken Ice is Required in Quantities.

No. 12

Shaving Breaker Taken Apart for Easy and Quick Removal of Cylinder

No. 15

✣NEW RAPID

Flanged and Ribbed Cast Iron Frame Plates, Held Securely Together by Strong Bolts, Extending Across the Width of Machine and Held Tight by Lock Nuts, The Side Frames are Closed Tight at the Bearings, Preventing Ice Passing Through Into the Pulleys an Important Feature not Found in Other Breakers; The Lower Plate in All Except No. 12 is Fitted Into Slides and can be Used Either at Front or Back of Machine as Desired; The Upper Back Plate in all Except No. 12 is Made to Adjust Toward or Away from the Cylinder, in Order to Break the Ice Finer or Coarser with the Plate in Use.

The Cylinders are Heavy and Strongly Braced, Clamped and Keyed to the Steel Driving Shaft, which is Supported in Bearings of Ample Size and Well Babbitted.

The Picks are Best Grade Drop Forged Steel, Made Round and Tapered at Shank to Fit Taper Hole in Cylinder, and will Interchange without Machining or Filing. They are Readily Removable from Socket by Tapping on Back End, yet are Driven Tightly into Socket During the Breaking of Ice, and will not Loosen and Fall Out.

Two Combs, One Fine and One Coarse, are Furnished with Each Machine; Should Run 150 Revolutions per Minute, Fly Wheel with Handle Tight and Loose Pulley, Furnished with Each Machine.

✣ Nos.	12	15	21	28
Capacity per Hour, Tons	2½	4	6	12
Size of Opening, Inches	12x10	17x14	21x14	28x14
Size of Each Pulley, Inches	12x2½	14x3½	14x3½	14x3½
Diameter of Fly Wheel, Inches	24	30	30	30
Height of Frame, Inches	35½	34	34	34
Size of Base, Inches	16½x18½	21x23	27x23	33x23
Weight, Each, Lbs.	375	645	760	120
Each	**$90.00**	**140 00**	**168 00**	**250.00**

Loose

Items Marked ✣ Not Carried in Stock; Can Only be furnished by Shipping Direct from Factory, Philadelphia, Pa.

LIQUID GLUE

LePAGES

IN BOTTLES, WITH SPREADER
For Family Use

Per Gross

No. 10—One Ounce Bottle, Size 2½x1¼ inches; Weight per Gross 33 lbs... **$20.00**

No. 20—Two Ounce Bottle, Size 3½x1¾ inches; Weight per Gross 56 lbs... **31.00**

One Dozen in a Box (No Less Sold)

IN CANS, WITH SPREADER
For Family Use

Per Dozen

No. 5—One-half Gill Can, Size 1¾x1¾ inches; Weight per Dozen 3⅜ lbs. **$3.00**

No. 0—One Gill Can, Size 2x2¼ inches; Weight per Dozen 5½ lbs..... **4.70**

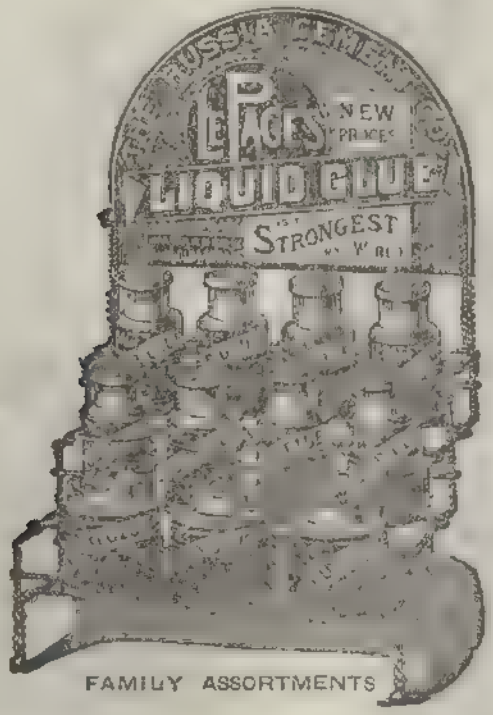
One Dozen in a Box (No Less Sold)
Six Dozen in a Case

IN PATENT PIN-SEALING TUBES

Per Dozen

No. T10—One Ounce Tube; Weight per Dozen ½ lb..... **$1 80**

No. T20—Two Ounce Tube; Weight per Dozen 1 lb.. ..... **3 00**
One Dozen in a Box (No Less Sold)



FAMILY ASSORTMENTS

Per Assortment

No. 1—Assortment Contains Two Dozen 1 Ounce Bottles and One Dozen ½ Gill Cans, with Brushes; Display and Advertising Cards and a Neat Wire Display Stand, 14 inches High, are Included; Weight per Assortment 12 lbs..... **$6.30**
One Assortment in a Case

LIQUID GLUE

LePAGES

For Mechanics and Factory Use.

The ½ and 1 Gallon Sizes Have Bail Handle

Nos.	30	40	50	60	70
Capacity	½P	1P	1Qt.	½Gal.	1Gal.
Doz. in a Case	2	1	1	½	½
Wt. Each, ozs.	¾	1¼	3	5¼	10¾
Wt. per Doz., lbs.	10	18	35	66	135
Per Dozen	$7.20	11.50	18.00	34.00	66.00

DRY GLUE

Put up in 25 lb. Wooden Drums.

Per Pound

No. 100—Common, Flake; for Soft Wood Work, Sizing and Book Binding..... **$0.02**

No. 110—Carpenters, Flake, for Sizing and Joist Glueing..... **.06**

No. 110½—Carpenters, Ground; for Veneering and Sizing ..... **.06**

No. 120—Cabinet, Flake; for Cabinet Makers Use and High Grade Work..... **.70**

No. 130—Ribbon, Uniform Strips; for Best Grade of Work..... **.62**
25 lbs. in a Wooden Drum

GLUE POTS

Cast Iron, In Two Parts

Outer Vessel, Japanned Outside; Inner Vessel has Flanged Top, which Supports it upon the Rim of Outer Vessel; Wire Bails.

TINNED INNER VESSEL

Nos.	00	0	1	2	3	4
Cap., pts.	½	1	1½	2	3	4
Height, in.	3⅝	3⅞	4¼	4¾	5⅜	5⅞
Diam., in.	5⅛	6	6½	7	7½	8
Wt. Doz. lbs.	40	48	55	67	75	91
Per Dozen	$12.50	14.00	15.50	20 00	24.00	29.00

WHITE ENAMELED INNER VESSEL

Nos.	E00	E0	E1	E2	E3	E4
Cap., pts.	¾	1	1½	2	3	4
Height, in.	3⅝	3¾	4¼	4¾	5⅜	5⅞
Diam., in.	5½	6	6½	7	7½	8
Wt. Doz. lbs.	40	48	55	67	75	91
Per Dozen	$9.50	10 50	11.50	14.50	17.00	21.00

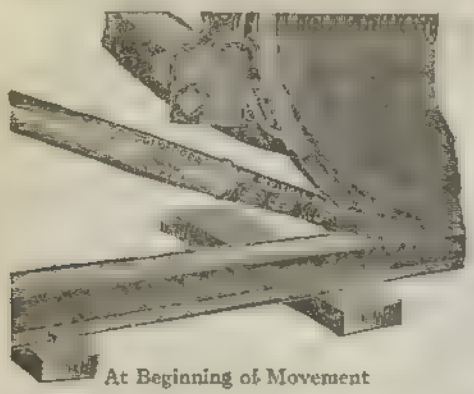
Loose

Glue Information

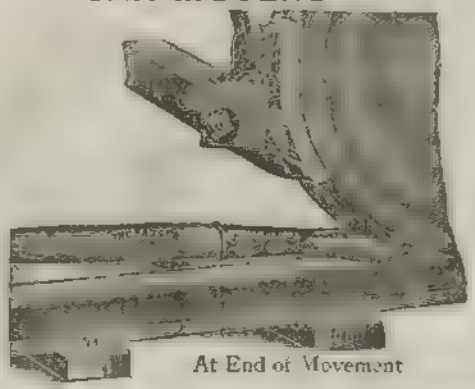
Use Alum to Keep Glue from Souring. Glue Mixed with Vinegar is Stronger than when used with Water; will Remain Liquid at a Temperature as low as 50 Degrees, and After Being Applied will Resist the Action of Water and Dampness Better.

Always let Glue Soak a few Hours or over Night before Cooking, add Enough Water to bring to Proper Consistency, then Boil at about [illegible] to Burn Glue, as it will Spoil it.

CAR MOVERS

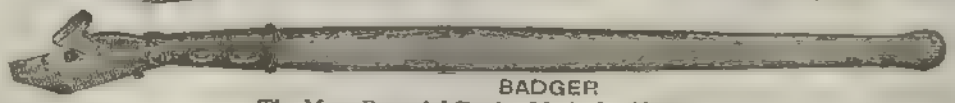


At Beginning of Movement



At End of Movement

Showing Top and Bottom of Head



BADGER

The Most Powerful Device Made for Handling Freight Cars

Has Two "Never-slip" Four Cornered Spurs, which Catch the Outer Edges of the Rail where it is Soft and Not Alone on Top of the Rail, which has Become Case Hardened from Contact with Car Wheels; These Spurs Can be Removed and Turned Three Times and Ends Changed should the Edges Become Dull; By Use of the Double Spur a Double Hold upon the Rail is Obtained and Thereby Double Resistance Offered against Slipping.

It is also Provided with a Cam, which is Pivoted to the End of the Main Lever in such a Way that when the Handle is Pressed Down it Lengthens, and Follows the Wheel, Adding an Immense Rolling Power.

So Constructed that when the Handle is Raised to Push the Mover Forward it Raises the Spur from the Rail, thus Doing Away with All Springs, which Weaken and Wear Out and Become a Source of Detriment and Trouble.

Each

No. B—Blue Japanned Malleable Iron Socket and Shoe; Special Tool Steel Spurs; Hard Maple Handle Varnished Two Coats; Length Over All 62½ inches; Diameter of Handle at Socket 2¾ inches, With One Extra Set of Spurs; Weight Each 15 lbs $8.00

Loose

CROW BARS

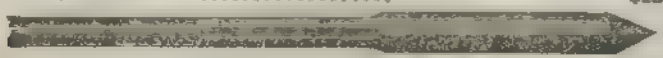
Solid Forged Steel, Oil Finish; Tempered Point, Tapered Round Loop Handle; Octagon Shank; Square Shoulder

No. WP—WEDGE POINT

Weight, Lbs.	12	14	16	18	20
Length, Feet	4¼	4½	4¾	5	5¼
Size Square, Inches	1⅛	1¼	1⅜	1¼	1⅜
Per Cwt, All Sizes					$12 00
Weight, Lbs.	22	24	✣26	✣28	✣30
Length, Feet	5¼	5½	6	6	6
Size Square, Inches	1⅜	1½	1½	1⅝	1¾
Per Cwt., All Sizes					$12 00

No. PP—PINCH POINT

Weight, Lbs.	12	14	16	18	20
Length, Feet	4¼	4½	4¾	5	5 1-6
Size Square, Inches	1⅜	1¼	1¼	1¼	1⅜
Per Cwt., All Sizes					$12.00
Weight, Lbs.	22	24	✣26	✣28	✣30
Length, Feet	5¼	5½	5¾	5⅞	6
Size Square, Inches	1⅜	1⅜	1½	1½	1½
Per Cwt., All Sizes					$12.00

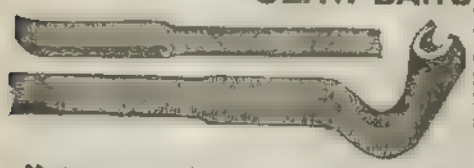


✣No. LB—LINING BARS: DIAMOND POINT

Used for Lining up and Prying Rails into Position

Weight, Lbs.	18	20	24
Length, Feet	5	5 1-6	5½
Size Square, Inches	1⅜	1⅜	1½
Per Cwt., All Sizes			$12.50

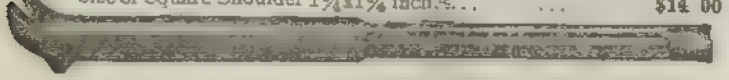
CLAW BARS



Forged Steel, Oil Finish; Tempered Working Ends; Tapered; Round Handle, Octagon Shank; Square Shoulder; For Drawing Spikes, Prying Rails, etc.; also Used in Wrecking Buildings, Bridges, etc.

Per Cwt.

✣No. 26—Goose Neck; Length About 5 feet; Weight About 30 lbs.; Size of Square Shoulder 1¼x1¼ inches $14 00



Per Cwt.

No. 28—Verona Pattern; with Heel; Length About 5 feet; Weight About 35 lbs.; Size of Square Shoulder 1¼x1¼ in. $12 50

All Above, Loose

RAILROAD TRACK TOOLS

RAILROAD TRACK LEVELS

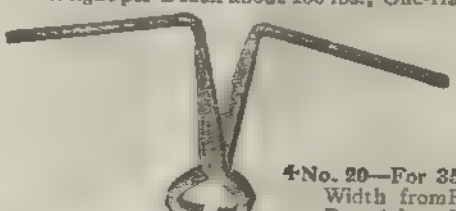
With Level Glass — Per Dozen

No. R—6 ft. 4½ in. Long, 6 inches Wide; 1½ inches Thick; Seasoned White Pine With Steel Plated Face and Ends; Wrought Iron Handle; One End Cut in Steps to Obtain Elevation at Curves; Weight 9 lbs. each $44.00

HUNTINGTON TRACK GAUGES

✣No. 655N—Standard Gauge 4 feet 8½ inches Between Flanges; 5 feet Over All; Natural Finish, Gas Pipe Stem 1¼ inch Diameter; Threaded and Riveted into Malleable Iron Socketed Track Rests; Milled Track Bearings, with Machined Socket Openings; One End Arched; with Double Track Bearings, which Secure a True Right Angle Avoiding the Inaccuracies at Frogs, Curves and Switches, which Occur from the Use of Ordinary Track Gauges ..... $44.00 — Per Dozen

Weight per Dozen about 150 lbs.; One-Half Dozen in a Bundle



RAIL TONGS

Forged Tool Steel, Oil Finish; 1⅛ inch Round Handles; Squared Arms; Heavy Steel Rivet.

Per Pound

✣No. 20—For 35 to 100 lb. Rails; Width from End to End 4 feet; Drop 1 foot; Weight About 20 lbs. $0.22

TIE TONGS

Forged Tool Steel, Oil Finish; 1⅛ inch Round Handles; Squared Arms; Heavy Steel Rivet.

Per Pound

✣No. 21—For Carrying Ties, Beams, etc.; Width from End to End 34 inches; Drop 13 inches; Wt. about 15 lbs. $0.24

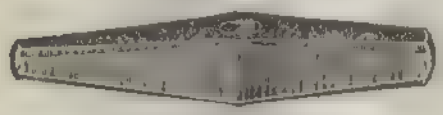
All Above, Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Shelbyville, Ill.

TRACK TOOLS

TRACK OR SPIKE MAULS

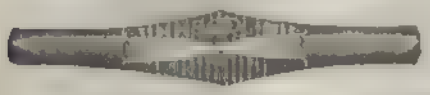
Solid Cast Steel, Oil Finish; Polished and Hardened Faces, Oval Eye; One Large and One Small End; Used by Track Layers, Sidewalk Builders, etc., for Heavy Driving.



REGULAR PATTERN

	Per Pound
No. R—Weight 10 lbs., Length 12½ in.; Diameter of Large End 1½ inches; Small End ⅞ inch	$0.16 .30

Loose



No. P—PITTSBURGH OR BELL PATTERN

Weight, Lbs.	8	10	12
Length, In.	13	14½	16
Diameter of Large End, In.	1⅜	1⅜	1⅜
Diameter of Small End, In.	1¼	1	1⅛
Per Pound, All Sizes	$0 18		

Loose

TRACK PUNCHES

Solid Crucible Steel, Oil Finish; Hardened and Polished Faces. Oval Eye; Width ¾ inch; Punch Used for Driving Bolts Into or Out of Fish Plates.

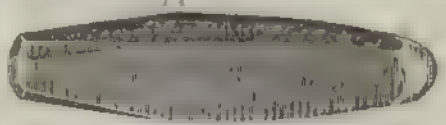
No. TP

Weight, Lbs.	✣4	✣4½	✣5
Length, Inches	7½	7¾	8
Diameter Face, Inches	1⅜	1⅜	1½
Per Pound, All Sizes	$0.3½		

Loose

TRACK CHISELS

Solid Cast Steel, Oil Finish; Polished and Hardened Face; Tempered Bit; Oval Eye; for Cutting Rails, Chain, Bars or Any Metal Material.



No. CT—CURVED BIT

With 1⅜ inch Cutting Edge

Weight, Lbs.	4	4½	5
Length, Inches	8½	9	9
Diameter Face, Inches	1¼	1¼	1¼
Per Pound, All Sizes	$0.32		

Loose

TAMPING BARS

Solid Forged Steel, Oil Finish; Tempered Point, Round Tapered Handle; Octagon Shank; Square shoulder.

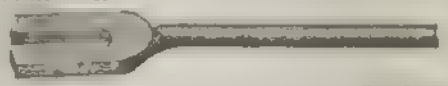
Used for Driving Ballast Under Railroad Ties.

Weight, Lbs.	14	20
Length, Feet	6	6
Size of Tamper, Inches	3½x¾	4x1
Per Pound, All Sizes	$0.18	

Loose

RAIL FORKS

Forged Steel, Oil Finish; Round Handle; Two Flattened Prongs on One End; Chisel Point on Other End.



	Per Pound
✣No. 3—Weight About 12 lbs.; Length [illegible] inches; Square Handle; With Cross Prongs 3 inches	$0.20

Loose

TRACK WRENCHES

Drop Forged, Solid Steel, Oil Finish, Hardened Ends.

✣No. 4—STRAIGHT; SINGLE END

Length 24 inches

Opening, Inches	1½	1⅝	1¾
For Nut, Inches	⅝	¾	⅞
Weight About, Lbs.	5	5½	6
Per Pound, All Sizes	$0 20		

Loose

✣No. 5—STRAIGHT; DOUBLE END

Length 24 inches

Opening, Inches	1⅛ and 1⅜	1⅜ and 1½
For Nut, Inches	⅝ and ¾	⅞ and ⅞
Weight About, Lbs.	6	7
Per Pound, All Sizes	$0 24	

Loose

✣No. 2—"S" WRENCH; DOUBLE END

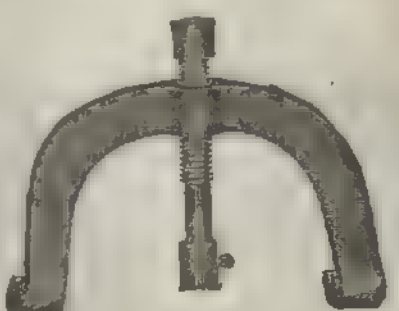
Length 24 inches

Opening, Inches	1⅛ and 1⅜	1⅜ and 1½
For Nut, Inches	¾ and ¾	⅝ and ⅞
Weight About, Lbs.	5½	6½
Per Pound, All Sizes	$0.24	

Loose

RAIL BENDERS

Heavy Forged Steel, Natural Finish Frame; Steel Bending Screw with Square Machine Cut Threads; Bolted Steel Cross Bar.



JIM CROW
With Wrench

Nos.	1N	2N	3N	4N	5N
Run of Screw, Inches	18	18	17	15	13
Diameter Screw, Inches	2½	2½	2¼	1¾	1¾
Span, Inches	28	24	20	16	14
Bends Rails, Lbs.	80 to 100	60 to 75	40 to 55	25 to 30	12 to 20
Weight Each, Lbs.	225	175	125	85	70
Each	$56 00	47 00	32 50	24 50	20 50
	50 00	43 00	32.50	24.50	20.50

Loose

SCREW BENDER
1⅛ inch Holes in Head to Receive Lever Bar

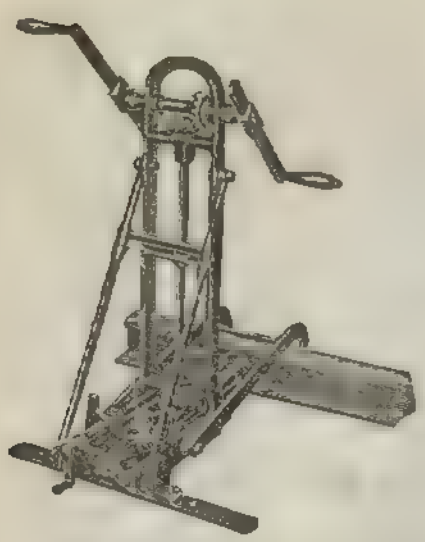
Nos.	1B	2B	3B	4B	5B
Run of Screw, Inches	18	18	17	15	13
Diameter Screw, Inches	3	3	2½	2½	2
Span, Inches	28	24	20	16	14
Bends Rails, Lbs.	80 to 100	60 to 75	40 to 55	25 to 30	12 to 20
Weight Each, Lbs.	225	175	125	285	70
Each	$51 00	47.50	35.00	8.50	24 00
	56.50	49.70	36.30	29.80	25 10

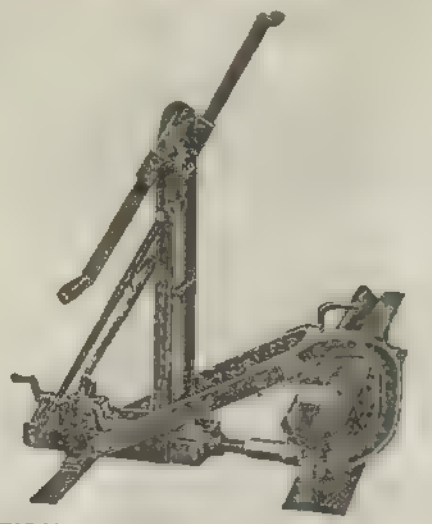
Loose

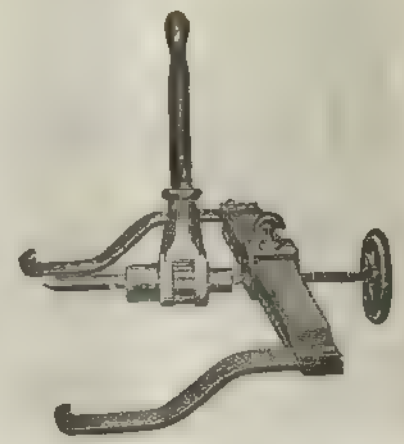
Items Marked ✣ Not Carried in Stock; Can be Furnished Only by Shipping Direct from Factory.

TRACK DRILLS

For Drilling Rails, Structural Steel, Etc.







✣NEW PAULUS VERTICAL

The Operator Stands Erect, Working with Greater Power and Less Strain than with a Horizontal Drill; Saves Time, as the Action of the Bit is Continuous; No Loss of Motion or Time as with a Lever Action Ratchet Drill; the Bit is Not Withdrawn from the Rail to Get Out of Way of Passing Train. The Top of Frame is Thrown Back, Releasing the Hooks, which are Lifted Out of the Way.

The Feed is Automatic and Requires no Adjustment.

Japanned Malleable Iron T Frame, Drop Hooks, Gear Wheels and Adjustable Crank; Hardwood Handles. Height 33 inches; Width of Frame 24 inches, Length of Base Plate 22 inches, Length of Handle Cranks 21 inches.

STYLE A

The Standard Style of Clutch

The Spindle Chuck on This or Style D is Interchangeable, the Drill Taking Either the Rich Spindle and Flat Bit or the Regular Twist Bit Spindle and Bit.

	Each
No. ARB—With Regular Twist Bit Spindle	**$42 00**

Weight 95 lbs.
Loose

BELAND HORIZONTAL

A Light, Reliable and Serviceable Drill That Clamps Easily Under Rail. By Shifting the Drill Along the Sliding Bar, All the Holes for Fish Plates or Frogs Can Be Drilled Without **Removing the Frame from the Rail.**

Without Drill Bit
Take Square Shank Drills

	Each
No. BD—Wrought Iron Frame; Cast Steel Ratchet with 18 inch Wrought Iron Lever, Length of Side Bar 23 inches; Diameter of Feed Wheel 7 inches; Diameter of Feed Screw ¾ inch; Length of Feed 7 inches; Weight 27 lbs.	**$12 00**

Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Harvey, Ill.

JACK SCREWS

★NORSHAP

Wrought Iron Screws, Swivel Top; Heavy Cast Iron Body and Head; Bell Shaped Bottom Painted Red
For Use in Raising Buildings, Engines, Boilers, Cars, Locomotives, etc.

CAPACITY IN TONS

Diameter of Screw, Inches						1¼	1½	1¾	2	2¼	2½	3			
Will Lift, Tons						12	16	20	24	28	36				

STOCK SIZES

Nos.	81½	101½	121½	141½	161½	101	121⅝	141¾	161⅝	181¾	82	102	122	142	162	182
Diameter Screw, Inches	1½	1½	1⅝	1¾	1½	1¾	1¾	1⅞	1⅞	1⅞	2	2	2	2	2	2
Height of Stand, Inches	8	10	12	14	16	10	12	14	16	18	8	10	12	14	16	18
Rise of Screw, Inches	6	8	10	12	14	8	10	12	14	16	5¾	7¾	9¾	11¾	13¾	15¾
Height Down, Inches	11	13	15	17	19	13½	15½	17½	19½	21½	12	14	16	18	20	22
Weight Each, Lbs	13	19	22	26	31	24	26	32	38	44	26	29	30	35	45	50
Each	$4 35	4 75	5 25	6 00	6 75	5 75	6 25	6 75	7 50	8 50	6 00	6 75	7 50	8 25	9 25	10 25
	5 10	**5 70**	**6 30**	**7.20**	**8.10**	**6.90**	**7.50**	**8 10**	**9.00**	**10 20**	**7.20**	**8.10**	**9.00**	**9.90**	**11 10**	**12 30**

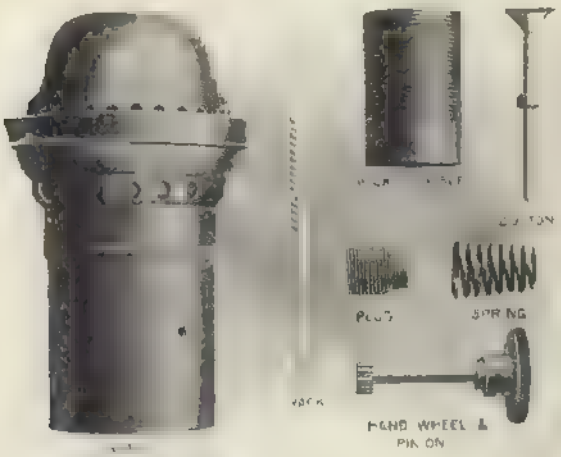
✣FACTORY SHIPMENT SIZES

Nos.	41¼	61¼	81¼	101¼	121¼	141¼	41½	61½	51¾	61¾	81¾	52	62	82	202	242
Diameter Screw, Inches	1¼	1¼	1¼	1¼	1¼	1¼	1½	1½	1¾	1¾	1¾	2	2	2	2	2
Height Stand, Inches	4	6	8	10	12	14	4	6	5	6	8	5	6	8	20	24
Rise of Screw, Inches	3	4½	6½	8½	10½	12½	2½	4	3	4	6	3	3¾	5¾	17½	21
Height Down, Inches	6¾	8¾	10¾	12¾	14¾	16¾	7	9	8	9½	11½	9	10	12	24	28
Weight Each, Lbs	8	12	15	16	18	22	11	14	13	18	23	20	22	26	53	68
Each	$3 00	3 20	3 40	3 80	4 20	4 60	3 25	3 75	4 25	4 50	5 00	5 00	5 25	6 00	11 50	13 50
	3 50	**3 80**	**4 10**	**4 60**	**5.10**	**5 60**	**3 90**	**4 50**	**5 10**	**5 40**	**6 00**	**6 00**	**6.30**	**7 20**	**13 80**	**16 20**

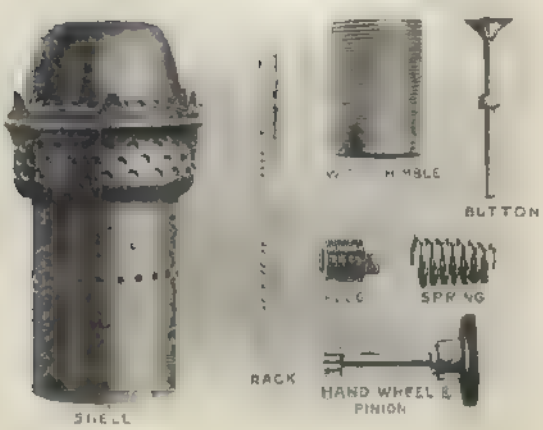
Nos.		62½	82½	102½	122½	142½	162½	182½	202½	242½	143	163	183	203	243	303
Diameter Screw, Inches		2½	2½	2½	2½	2½	2½	2½	2½	2½	3	3	3	3	3	3
Height Stand, Inches		6	8	10	12	14	16	18	20	24	14	16	18	20	24	30
Rise of Screw, Inches		4	6	7½	9½	11½	13½	15½	17½	21½	11	12½	14½	16½	20½	26
Height Down, Inches		10½	12½	14½	16½	18½	20½	22½	24½	28½	18½	20½	22½	24½	28½	34
Weight Each, Lbs		35	42	45	50	60	64	70	72	95	74	76	80	85	129	150
Each		$7 50	8 75	9 75	10 75	12 00	13 25	14 50	15 75	18 25	19 50	20 75	22 00	23 25	25 75	30 00
		9 30	**10 50**	**11 70**	**12.90**	**14 40**	**15 90**	**17 40**	**18 90**	**21 90**	**23 40**	**24 90**	**26 40**	**27 90**	**30 90**	**36.00**

Loose

Repair Parts for Oil Headlight Burners

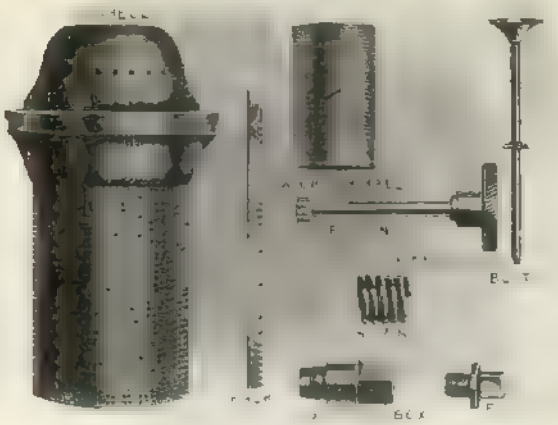


For Nos. 106 and 106 Burners

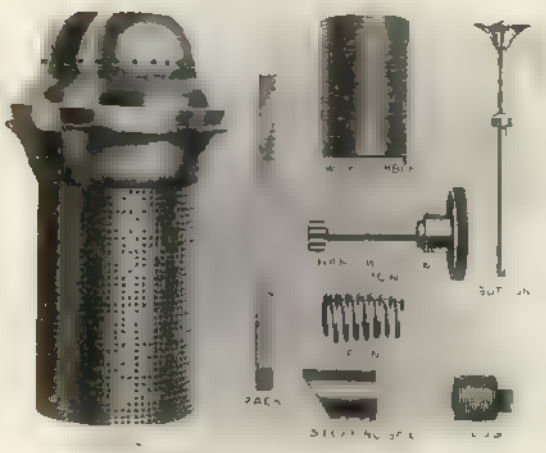


For Nos. 107 and 108 Burners

Repair Parts for Oil Headlight Burners



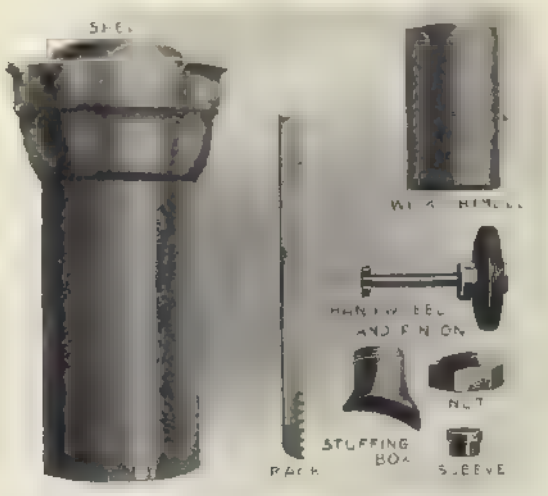
For No. 5D Wilder Burner



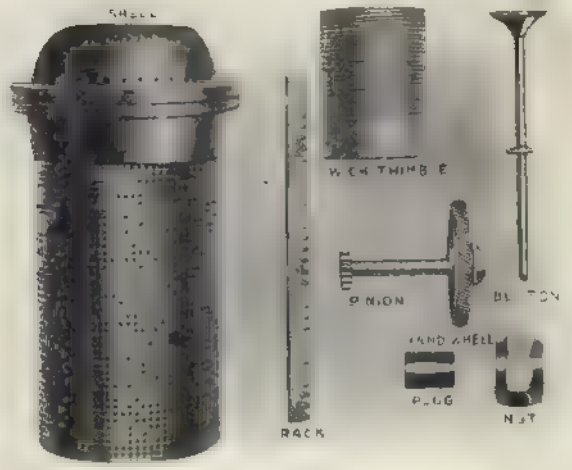
For Nos. 6 and 6B Burners

When ordering, please designate the parts wanted as named hereon and always give number of burner for which parts are wanted

Repair Parts for Oil Headlight Burners



For Burner No. 62



For Burner No. 35

When ordering please designate the parts wanted as named hereon and always give number of the burner for which parts are wanted.

We do not show repair parts for Nos. 95, 63, 94, 11, 92 or 96 burners.

Price List of Headlight Burners

No. 105,	page 229	each $6 00
No. 106,	page 229	each 8 00
No 107,	page 230	each 6 00
No 108	page 230	each 8 80
No 5	page 231	each 6 00
No 5-D	page 232	each 9 00
No. 5-B,	page 232	each 8 00
No. 62,	page 233	each 6 50
No. 95,	page 233	each 5.50
No. 63,	page 234	each 6.00
No. 94,	page 234	each 5.80
No. 35,	page 235	each 8 50
No. 14,	page 235	each 4.50
No. 92,	page 236	each 4 00
No. 96,	page 236	each 4 80

List Price of Burner Parts

Burner shells Nos 105 and 106 page 237	each	$ 2 50
Burner shells Nos 107 and 108, page 237	each	2 80
Burner shells Nos 5 5B and 5D, page 238	each	2 80
Burner shells Nos 62 and 35 page 239	each	2 80
Burner Buttons	per dozen	6 50
Burner pinions and shafts	per dozen	5 50
Burner racks and thimbles	per dozen	10 00
Burner stuffing boxes	per dozen	5.50
Burner stuffing box plugs	per dozen	3 50
Burner hand wheels	per dozen	4 30
Burner springs	per dozen	1 70
Burner packing washers brass	per dozen	1 20
Burner corks	per dozen	.50

LYRIC RECORDS.

We have satisfied ourselves that the Lyric Record is the best commercial record on the market of Hill and Dale cut. Every manufacturer recommends his particular brand, but after trying all the different makes we feel certain that the Lyric line will meet 90% of the requirements.

The Lyric Record is known as a vertical cut or Hill and Dale type. The waves are recored from the bottom of the grooves. The lateral cut, of which the Victor or Columbia records are samples get its reproduction from the side of the grooves. In vertical cut records the needle vibrates up and down and the sound box, to receive these vibrations, must stand facing the front.

The Lyric Records will not reproduce on Victor or Columbia machines unless these machines are fitted with a universal tone arm.

The better the music, the better the "rag" it will make. For evidence, listen to Lyric Record No. 4156 and hear in the excitement of "Peter Gink," strains familiar to music lovers under a somewhat similar title. The musical purist may grieve, but the world will dance to it.

Records are **not** sent on approval. Order a few sample records and satisfy yourself **first** before buying a stock.

DANCE RECORDS.

4101 / $0.75 \ Ragging The Scale ..... Van Eps Banjo Orch.
Teasing The Cat ..... Van Eps Banjo Orch.

4102 / $0.75 \ Bob ..... Lyric Dance Orch.
Havanola ..... Lyric Dance Orch.

4104 / $0.75 \ Guatemalan Girls ..... Blue & White Marimba Band
Smoke Up ..... Halles Saxaphone Band

4105 / $0.75 \ He Will Understand ..... Lyric Dance Orch.
In The Garden of Romance ..... Lyric Dance Orch.

4106 / $0.75 \ Love's Treasure ..... Lyric Dance Orch.
Violets (Waltz) ..... Lyric Dance Orch.

4107 / $0.75 \ Sphinx Waltz ..... Lyric Dance Orch.
Fanny's Waltz ..... Lyric Dance Orch.

4108 / $0.75 \ Merry Whirl ..... Vess Ossman's Jazz Band
Hy-Sine ..... Vess Ossman's Jazz Band

4109 / $0.75 \ Alabama Slide ..... Van Eps Banjo Orch.
Donkey Fox Trot ..... Vess Ossman's Jazz Banjo Orch.

4110 / $0.75 \ On With The Dance ..... Accordian Solo, S. Bagdzinski
A Happy Couple ..... Peasant's Orch.

4111 / $0.75 \ Officer's Waltz ..... Accordian Solo, S. Bagdzinski
Heavenly Waltz ..... Accordian Solo, E. Dembski

4112 / $0.75 \ My Clarabelle ..... Lyric Dance Orch.
Valse Soumir ..... Lyric Dance Orch.

4113 / $0.75 \ A Perfect Day ..... Lyric Dance Orch.
Mighty Lak' A Rose ..... Lyric Dance Orch.

4114 / $0.75 \ The Skaters ..... Lyric Dance Orch.
Espana ..... Lyric Dance Orch.

4115 / $0.75 \ Valse Militaire ..... Lyric Dance Orch.
Artist's Life ..... Lyric Dance Orch.

4116 / $0.75 \ There's Egypt In Your Dreamy Eyes ..... Lyric Dance Band
Hill & Dale Fox Trot ..... Van Eps Banjo Orch.

4117 / $0.75 \ Loudens Bonnie Woods and Braes Bagpipe Solo, Fitzpatrick
Comedy Maid ..... Bagpipe Solo, Patrick Fitzpatrick

4118 / $0.75 \ Dance O' The Dollys ..... Blue & White Marimba Band
My Fox Trot Girl ..... Vess Ossman's Jazz Banjo Orch.

4119 / $0.75 \ I've A Shooting Box in Scotland Blue & White Marimba Band
For Your Country & My Country Blue & White Marimba Band

4120 / $0.75 \ The Sunshine of Your Smile ..... Lyric Dance Orch.
For Me and My Gal ..... Blue & White Marimba Band

4124 / $0.75 \ Kozak ..... S. Bagdzinski, Accordian Solo
Camp Town Races ..... Halles Saxaphone Band

4125 / $0.75 \ Allah's Holiday ..... Lyric Dance Orch.
On The Dixie Highway ..... Van Eps Banjo Orch

4126 / $0.75 \ I Wonder What William Tell Will Tell ..... Van Eps Banjo Orch.
Yearning For You ..... Lyric Dance Orch.

4127 / $0.75 \ The Sleigh Ride ..... Polish Dance Orch.
Evening Song ..... Polish Dance Orch.

4128 / $0.75 \ Wine, Woman and Song ..... Orchestra
Gatchina ..... Russian Balalaika Orch.

4129 / $0.75 \ Russian Kozak ..... Orchestra
Russian Folk Dance ..... Accordian Solo, E. Dembski

4130 / $0.75 \ Russian Maiden Dance ..... Russian Maiden Orch.
Heavenly Waltz ..... Accordian Solo, E. Dembski

4131 / $0.75 \ Peasant's Bridal March ..... Peasant's Orch.
The Farmer's Daughter ..... Orchestra

4132 / $0.75 \ The Return From The Park ..... Peasant's Orch.
Rustic Polka ..... Pesant s Orch. with Bells

4133 / $0.75 \ Over There ..... Lyric Dance Orch.
Captain Betty ..... Lyric Dance Orch.

4134 / $0 75 \ Good Bye Broadway, Hello France ..... Lyric Dance Orch.
Waters of Venice ..... Lyric Dance Orch.

4135 / $0.75 \ You Said Something ..... Lyric Dance Orch.
It's A Pipp'n ..... Lyric Dance Orch.

4139 / $0.75 \ Mighty Lak' A Rose ..... Lyric Dance Orch.
Tickle Toe ..... Lyric Dance Band

4140 / $0.75 \ Valse Boston ..... Lyric Dance Orch.
Some Jazz Blues ..... Lyric Dance Band

4141 / $0.75 \ The Dark Town Strutters Ball ..... Lyric Dance Band
Love's Old Sweet Song ..... Lyric Dance Orch.

4142 / $0.75 \ Going Up ..... Lyric Dance Band
Tropical Skies ..... Blue & White Marimba Band

4144 / $0.75 \ Calicoco ..... Lyric Dance Band
A Baby's Prayer At Twilight ..... Lyric Dance Band

4145 / $0 75 \ Indianola ..... Lyric Dance Band
Bridewyard Bound ..... Lyric Dance Band

4146 / $0.75 \ The Memphis Blues ..... Bennett Bros , Saxaphone, Piano
Dolores ..... Brown & Edwards, Accordian

4150 / $0.75 \ Texas Fox Trot ..... Lyric Dance Band
Sand Dunes ..... Lyric Dance Band

4151 / $0.75 \ Harry Fox Trot ..... Lyric Dance Band
Jack O'Lantern ..... Lyric Dance Band

4152 / $0.75 \ Ne-oa ..... Lyric Dance Band
Hindustan ..... Lyric Dance Band

4153 / $0 75 \ Beautiful Ohio ..... Lyric Dance Band
Arabian Nights ..... Lyric Dance Band

4156 / $0 75 \ Lucille ..... Lyric Dance Band
Peter Gink ..... Lyric Dance Band

4157 / $0.75 \ I'm Always Chasing Rainbows ..... Lyric Dance Band
Pahjamah ..... Lyric Dance Band

HAWAIIAN.

4143 / $0.75 \ Yaaka Hula Kickey Dula ..... Kalawao Hawaiian Orch
Kilina Waltz ..... Kalawao Hawaiian Orch.

4147 / $0.75 \ Aloha Oe ..... Kalawao Hawaiian Orch.
Ua Like Noa Like ..... Kalawao Hawaiian Orch.

4155 / $0.75 \ The Glow Worm ..... Kalawao Hawaiian Orch.
Niniyso ..... Kalawao Hawaiian Orch.

4158 / $0.75 \ Hawaiian Hula Medley ..... Kalawao Hawaiian Orch.
Alaho Land ..... Kalawao Hawaiian Orch.

4159 / $0.75 \ Kamawe ..... Kalawao Hawaiian Orch.
Hilena Waltz ..... Kalawao Hawaiian Orch.

ASSORTMENTS.

ASSORTMENT OF FIFTY RECORDS. (Cont.)

5142 / 75c. — How You Gonna Keep Em / I Ain't Gott'n No Time — Byron G. Harlan, Vocal / Collins & Harlan, Vocal
4159 / 75c. — Kamawe / Hilena Waltz — Kalawao Hawaiian Orch. / Kalawao Hawaiian Orch.
4144 / 75c. — Calicoco / Baby's Prayer At Twilight — Lyric Dance Band / Lyric Dance Band
5134 / 75c. — Soothing Serenade / When We Went To Sunday School — Henry Burr, Vocal / Burr & Lenox, Vocal
5155 / 75c. — When It's Circus Day Back Home / Don't Slam That Door — Sullivan & Gerard, Vocal / Sullivan & Gerard, Vocal
4139 / 75c. — Mighty Like A Rose / Tickle Toe — Lyric Dance Band / Lyric Dance Band
6127 / $1.00 — Absent / A Dream — Hardy Williamson, Tenor / Hardy Williamson, Tenor
4145 / 75c. — Indianola / Homeward Bound — Lyric Dance Band / Lyric Dance Band
8118 / $1.00 — The Flatterer / Kiss Me Again — Lyric Symphony Orch / Lyric Dance Orch
8117 / $1.00 — Scarf Dance / Entr'acte Et Valse — Lyric Symphony Orch / Lyric Symphony Orch.
8102 / $1.00 — Barcarolle / Cavatina — Lyric Orch. / Vera Barstow, Violin
8112 / $1.00 — Old Black Joe / Kathleen Mavourneen — Vera Barstow, Violin / Vera Barstow, Violin
8120 / 75c. — Ever Of Thee I'm Dreaming / Silver Threads Among The Gold — Taylor Trio, Vocal / Taylor Trio, Vocal
8109 / $1.00 — Cantilena / Melody in F — Cornelius Van Vliet, Violin / Cornelius Van Vliet, Violin
5126 / 75c. — Baby's Prayer At Twilight / Sambre et Meuse — Henry Burr, Vocal / Lyric Military Band
5129 / 75c. — Just Like Washington Crossed The Delaware / American Patrol — Fields, Baritone / Lyric Military Band
4123 / 75c. — Medley of National Airs / Boy Scouts — Lyric Military Band / Lyric Military Band
5105 / 75c. — Coon's Dream Of Heaven / Matrimonial Difficulties — Billy Golden, Recital / Billy Golden, Recital
4116 / 75c. — Hill & Dale / There's Egypt In Your Dreamy Eyes — Van Eps Banjo Orch. / Lyric Dance Band
4141 / 75c. — Loves Old Sweet Song / Darktown Strutters Ball — Lyric Dance Band / Lyric Dance Band
4102 / 75c. — Bob / Havanola — Lyric Dance Orch. / Lyric Dance Orch.
4135 / 75c. — You Said Something / Pipa — Lyric Dance Orch. / Lyric Dance Orch.
5137 / 75c. — A Little Birch Canoe And You / You Don't Know What You'r Missing — Charles Hart, Tenor / Frank Jay, Tenor
4101 / 75c. — Ragging the Scale / Teasing the Cat — Van Eps Banjo Orch. / Van Eps Banjo Orch.
4125 / 75c. — On the Dixie Highway / Allah's Holiday — Van Eps Banjo Orch / Lyric Dance Orch.
6137 / $1.00 — Lead Kindly Light / Nearer My God To Thee — Stanley Male Quartet / Stanley Male Quartet
6116 / $1.00 — Home Sweet Home / Lead Kindly Light — Mary Cavendish, Soprano / Marion Green, Baritone
6117 / $1.00 — My Dear Little Shamrock / The Sunshine of Your Smile — James Devlin, Vocal / James Devlin, Vocal
4109 / 75c. — Donkey Fox Trot / Alabama Slide — Vess Ossman's Jazz Banjo Orch. / Van Eps Banjo Orch.
5106 / 75c. — Insect Powder Agent / Turkey in De Straw — Billy Golden, Recital / Billy Golden, Recital
5109 / 75c. — Goodby Broadway / Over There — Peerless Quartet / Arthur Fields & Peerless Quartet
4105 / 75c. — In The Garden of Romance / He Will Understand — Lyric Dance Orch. / Lyric Dance Orch
5132 / 75c. — In Berry Pickin Time / K-K-Katy — Harry Williams, Vocal / Harry Williams, Vocal
6139 / 75c. — Smiles / When You Come Back — Henry Burr, Tenor / Ruth Lenox, Contralto
5136 / 75c. — Rose Of No Man's Land / Tell We Meet Again — Sam Ash, Tenor / Charles Hart & Elliott Shaw, Vocal
8110 / $1.00 — In The Gloaming / Loves Old Sweet Song — McKee Trio / McKee Trio
4158 / 75c. — Hawaiian Hula Medley / Aloha Land — Kalawao Hawaiian Orch. / Kalawao Hawaiian Orch.
4143 / 75c. — Kilina / Yaka Hula, Hickey Dula — Kalawao Hawaiian Orch. / Kalawao Hawaiian Orch.
4147 / 75c. — Aloha oe / Ua Like No A Like — Kalawao Hawaiian Orch. / Kalawao Hawaiian Orch.
5143 / 75c. — When You Look In The Heart Of A Rose / When Bees Make Honey — Henry Burr, Vocal / Kaufman Bros.
6121 / $1.00 — Sweet And Low / When You Come Back — Lyric Male Quartet / James Tree
8104 / $1.00 — Miracle Of Love / Kathleen Mavourneen — McKee Trio / McKee Trio
4142 / 75c. — Going Up / Tropical Skies — Lyric Dance Band / Blue & White Marimba Band

Per Assortment
No. 50—Lyric Record Assortment; 100 pieces... **$40.50**

ASSORTMENT OF TWENTY-FIVE RECORDS.

5105 / 75c. — Coon's Dream Of Heaven / Matrimonial Difficulties — Billy Golden, Recital / Billy Golden, Recital
4102 / 75c. — Bob / Havanola — Lyric Dance Orch. / Lyric Dance Orch.
5129 / 75c. — Just Like Washington Crossed The Delaware / American Patrol — A. Fields, Voc. / Lyric Military Band
8109 / $1.00 — Cantilena / Melody in F — Cornelius Van Vliet, Violin / Cornelius Van Vliet, Violin
8120 / 75c. — Ever Of Thee I'm Dreaming / Silver Threads Among The Gold — Taylor Trio, Vocal / Taylor Trio, Vocal
8112 / $1.00 — Old Black Joe / Kathleen Mavourneen — Vera Barstow, Violin / Vera Barstow, Violin
8102 / $1.00 — Barcarolle / Cavatina — Lyric Orch. / Vera Barstow, Violin
8117 / $1.00 — Scarf Dance / Entr'acte Et Valse — Lyric Symphony Orch / Lyric Symphony Orch.
8118 / $1.00 — The Flatterer / Kiss Me Again — Lyric Symphony Orch. / Lyric Dance Orch.
4145 / 75c. — Indianola / Homeward Bound — Lyric Dance Band / Lyric Dance Band
6127 / $1.00 — Absent / A Dream — Hardy Williamson, Tenor / Hardy Williamson, Tenor
4139 / 75c. — Mighty Like A Rose / Tickle Toe — Lyric Dance Band / Lyric Dance Band
5115 / $1.00 — When It's Circus Day Back Home / Don't Slam That Door — Sullivan & Gerard, Vo / Sullivan & Gerard, Vo
5134 / 75c. — Soothing Serenade / When We Went To Sunday School — Henry Burr, Vocal / Burr & Lenox, Voc.
5142 / 75c. — How You Gonna Keep Em / I Ain't Gott'n No Time — Byron G. Harlan, Vocal / Collins & Harlan, Vocal
4159 / 75c. — Kamawe / Hilena Waltz — Kalawao Hawaiian Orch. / Kalawao Hawaiian Orch.
4144 / 75c. — Calicoco / Baby's Prayer At Twilight — Lyric Dance Band / Lyric Dance Band
4126 / 75c. — I Wonder What William Tell Will Tell / Yearning For You — Van Eps Banjo Orch. / Lyric Dance Orch.
4140 / 75c. — Valse Boston / Some Jazz Blues — Lyric Dance Orch. / Lyric Dance Band
5117 / 75c. — Night Time in Little Italy / Down in Borneo Isle — Collins & Harlan, Vocal / Collins & Harlan, Vocal
4157 / 75c. — I'm Always Chasing Rainbows / Pahamah — Lyric Dance Band / Lyric Dance Band
5108 / 75c. — Rabbit Hash / Coon's Attempted Suicide — Billy Golden, Recital / Billy Golden, Recital
4152 / 75c. — Hindustan / Me-ow — Lyric Dance Band / Lyric Dance Band
4150 / 75c. — Texas Fox Trot / Sand Dunes — Lyric Dance Band / Lyric Dance Band
5132 / 75c. — In Berry Pickin Time / K-K-Katy — Harry Williamson, Baritone / Harry Williamson, Baritone

Per Assortment
No. 25 Lyric Record Assortment: 50 pieces... **$20.50**

VOCAL.

6120 | When The Boys Come Home ..... Graham Marr
$1.25 | Danny Deever ..... Graham Marr & Quartet

5121 | Hail! Hail! The Gang's All Here .. Fields & Peerless Quartet
$0.75 | I May Be Gone For A Long Long Time .. Stanley Cochran

5129 | Last Line Washington Crossed the Delaware .. Arthur Fields
$0.75 | American Patrol ..... Lyric Military Band

BILLY GOLDEN, COMEDIAN.

5105 | A Coon's Dream of Heaven ..... Billy Golden
$0.75 | Matrimonial Difficulties ..... Billy Golden

5106 | The Insect Powder Agent ..... Billy Golden
$0.75 | Turkey in de Straw ..... Billy Golden

5108 | A Coon's Attempted Suicide ..... Billy Golden
$0.75 | Rabbit Hash ..... Billy Golden

ORCHESTRAL RECORDS.

9105 | Carmen ..... Lyric Symphony Orch.
$1.50 | Poet and Peasant Overture ..... Lyric Symphony Orch.

8117 | Coppelia ..... Lyric Symphony Orch.
$1.00 | Scarf Dance and Pierrette ..... Lyric Symphony Orch.

9104 | A Dream of Love ..... Lyric Symphony Orch.
$1.50 | Pagliacci Gems ..... Lyric Symphony Orch.

9107 | 1812 Overture ..... Lyric Symphony Orch.
$2 00 | Peer Gynt Suite ..... Lyric Symphony Orch.

7110 | Faust ..... Lyric Symphony Orch.
$1.25 | Il Trovatore ..... Lyric Symphony Orch.

8118 | The Flatterer ..... Lyric Symphony Orch.
$0 75 | Kiss Me Again ..... Lyric Symphony Orch.

9102 | In A Monastery Garden ..... Lyric Symphony Orch.
$1.25 | Zampa Overture ..... Lyric Symphony Orch.

9103 | Midsummer's Nights Dream ..... Lyric Symphony Orch.
$1.25 | Prelude in C Sharp Minor ..... Lyric Symphony Orch.

8116 | Prelude ..... Lyric Symphony Orch.
$1.00 | The Swan ..... Cello Solo

9101 | Prophete ..... Lyric Symphony Orch.
$1.25 | Puccinisna ..... Lyric Symphony Orch.

9102 | Tales of Hoffman ..... Lyric Symphony Orch.
$1.00 | Cavatina ..... Violin Solo, Vera Barstow

9106 | William Tell Overture Parts 1 and 2 Lyric Symphony Orch.
$2.00 | William Tell Overture Parts 3 and 4 Lyric Symphony Orch.

8114 | In The Woods ..... Russian Balalaika Orch.
$1.00 | Evening Song ..... Russian Balalaika Orch.

3782 | Marche Rakaczy ..... Lyric Gypsy Band
$0 75 | Gypsy Waltz ..... Lyric Gypsy Band

7112 | Cavalleria Rusticana ..... Lyric Symphony Orch
$1.50 | Il Bacio ..... Regina Vicarino

VIOLIN RECORDS—SOLOS.

8113 | Humoresque ..... Vera Barstow
$1.00 | Elegie ..... Vera Barstow

8112 | Kathleen Mavourneen ..... Vera Barstow
$1 00 | Old Black Joe ..... Vera Barstow

8101 | Last Rose of Summer ..... Vera Barstow
$1 00 | Thais ..... Vera Barstow

8107 | My Old Kentucky Home ..... Vera Barstow
$1.00 | Old Folks At Home ..... Vera Barstow

OPERATIC AND CLASSICAL RECORDS.

7109 | La Donnal Mobile and Questa o Quella (Act 3.) (in Italian) ..... George Rasely
$1.25 | Trovatore Olive Marshall, Mario Rodolfi & Metropolitan Chorus

7104 | Quartet from Rigoletto .... Lyric Opera Quartet (in Italian)
$1.50 | Africana ..... Mario Rodolfi, Tenor

7106 | Carmen ..... Mario Rodolfi, Tenor (in Italian)
$1 50 | Forza del Destino .... Enrico Marini, Baritone (in Italian)

7102 | Elisird' Amore ..... Mario Rodolfi (in Italian)
$1 50 | Tosca ..... Mario Rodolfi (in Italian)

7101 | Martha ..... Joseph O'Hara with Orch. (in Italian)
$1.50 | Cavalleria Rusticana .. Joseph O'Hara with Orch. (in Italian)

7107 | Pagliacci (in Italian) ..... Metropolitan Chorus
$1.50 | Faust (in Italian) ..... Metropolitan Chorus

6141 | The Last Rose of Summer ..... Regina Vicarino
$1.25 | My Laddie ..... Regina Vicarino

6142 | Silent Night ..... Lyric Quartet
$1.25 | Adeste Fidales ..... Lyric Mixed Chorus

7108 | March and Chorus ..... Metropolitan Chorus
$1.25 | Chorus of Matadors ..... Metropolitan Chorus

6144 | La Paloma ..... Saverio Benigno
$0.75 | Barcarole ..... Saverio Benigno

7111 | Good Night Quartet ..... Lyric Opera Quartet
$1.50 | Caro Nome ..... Regina Vicarino

7105 | Caster Chorus ..... Opera Chorus
$1.50 | Anvil Chorus ..... Lyric Grand Opera Chorus

7113 | Lucia-Il Dalce Suono ..... Regina Vicarino
$1.50 | Aria Fresca ..... Giuseppe Nardini

7114 | Boheme-Che Gelada Manina ..... Theodore Kittay
$1.50 | Stabat Mater-Pro Peccatis ..... James Saunders

7115 | Cielo E Mar ..... Theodore Kittay
$1.50 | Recondita Armonia ..... Theodore Kittay

7117 | Serenade ..... Regina Vicarino
$1.50 | Pearl of Brazil ..... Regina Vicarino

VIOLINCELLO RECORDS.

8106 | The Broken Melody ..... Cornelius Van Vliet
$1.00 | Tarantella ..... Cornelius Van Vliet

8109 | Cantilena ..... Cornelius Van Vliet
$1.00 | Melody in F ..... Cornelius Van Vliet

8115 | Evening Song ..... Cornelius Van Vliet
$1.00 | Tales of Hoffman. Louise McMahon, Flora Hardie & Chorus

8108 | Gavotte ..... Cornelius Van Vliet
$1.00 | Largo ..... Cornelius Van Vliet

8105 | Salut d' Amour ..... Cornelius Van Vliet
$1.00 | Tannhauser ..... Cornelius Van Vliet

8121 | Samson et Dalila ..... Cornelius Van Vliet
$1.00 | Traumerei ..... Cornelius Van Vliet

8116 | Swan ..... Cornelius Van Vliet
$1.00 | Prelude ..... Lyric Orch.

8104 | Kathleen Mavourneen ..... Violin, Cello & Piano
$1.00 | The Miracle of Love ..... Violin, Cello & Piano

8110 | Love's Old Sweet Song .. McKee Trio, Violin, Cello & Piano
$1.00 | In the Gloaming ..... McKee Trio, Violin, Cello & Piano

ASSORTMENTS.

Because of the unprecedented demand for records at this time we have made up the following two assortments which represent to our minds, the most popular sellers.

These records can be ordered individually or in assortments, but the number 25 assortment is the smallest stock of demonstrating records that any dealer handling Farwell machines should carry, while the number 50 stock is much more complete.

We have satisfied ourselves that the Lyric record is the best record made of Hill & Dale cut. These records are sold with the understanding that there is no exchange, but with the assurance that we continue to maintain the F. O. K. policy of always having saleable goods in assortments.

ASSORTMENT OF FIFTY RECORDS.

4150 | Texas Fox Trot ..... Lyric Dance Band
75c. | Sand Dunes ..... Lyric Dance Band

4152 | Hindustan ..... Lyric Dance Band
75c. | Me-ow ..... Lyric Dance Band

5108 | Rabbit Hash ..... Billy Golden, Recital
75c. | Coon's Attempted Suicide ..... Billy Golden, Recital

4157 | I'm Always Chasing Rainbows ..... Lyric Dance Band
75c. | Pahjamah ..... Lyric Dance Band

5117 | Night Time In Little Italy ..... Collins & Harlan, Vocal
75c. | Down in Borneo Isle ..... Collins & Harlan, Vocal

4140 | Valse Boston ..... Lyric Dance Orch
75c. | Some Jazz Blues ..... Lyric Dance Band

4126 | I Wonder What William Tell Will Tell. Van Eps Banjo Orch
75c. | Yearning For You ..... Lyric Dance Orch.

BANDS.

4103 / $1.00 — American Fantasie. . . . . Lyric Military Band
Medley of National Airs. . . Lyric Symphony Orch.

4122 / $0.75 — American Patrol. . . . . Lyric Military Band
Call of America & American Republic . Lyric Military Band

4123 / $0.75 — Boy Scouts . . . . . Lyric Military Band
Medley of American National Airs . Lyric Military Band

4148 / $0.75 — Up The Street. . . . . Lyric Military Band
Joffre March . . . . . Lyric Military Band

4149 / $0.75 — Lights Out. . . . . Lyric Military Band
Liberty Lads. . . . . Lyric Military Band

4154 / $0.75 — The Invincible Eagle March. . . . . Lyric Band
2nd Reg. of Conn. March. . . . . Lyric Band

VOCAL.

5101 / $0.75 — Indiana. . . . . Sterling Trio
On The South Sea Isle. . . . . Sterling Trio

5102 / $0.75 — Georgia Moon. . . . . Sterling Trio
Down At The Huskin Bee. . . . . Peerless Quartet

5103 / $0.75 — When The Sun Goes Down In Dixie. . . . . Peerless Quartet
America, Here's My Boy . . . . . Peerless Quartet

5116 / $0.75 — There's Nothin Too Good for the Irish . . Jas. Sullivan, Tenor
O Brien Is Looking for You . . . . . James Sullivan, Tenor

5119 / $0.75 — There's Something in the Name of Ireland Henry Burr, Tenor
Hawaiian Butterfly . . . . . Sterling Trio

5118 / $0.75 — That's The Kind of a Baby For Me. . Samuel Ash, Tenor
Bring Me A Rose. . . . . Samuel Ash, Tenor

5115 / $0.75 — When It's Circus Day Back Home. . . . . Jones & Sullivan
Don't Slam That Door. . . . . Jones & Sullivan

3791 / $0.75 — Swedish Folk Song. . . Lydia Lindgren, Soprano (in Swedish)
Bird's Song . . . . . Lydia Lindgren, Soprano (in Swedish)

5111 / $0.75 — Sweet Emalina, My Gal. . . . . Peerless Quartet
Mother, Dixie and You. . . . . Sterling Trio

3120 / $0.75 — Ever of Thee I'm Fondly Dreaming. . . . . Taylor Trio
Silver Threads Among The Gold. . . . . Taylor Trio

3792 / $0.75 — Solveig Song. . . . . Lydia Lindgren
Little Star in the Sky Above. . . . . Lydia Lindgren

6137 / $1.00 — Lead Kindly Light . . . . . Stanley Male Quartet
Nearer My God to Thee. . . . . Stanley Male Quartet

6100 / $1.00 — My Old Kentucky Home . . . . . Stanley Male Quartet
Old Black Joe. . . . . Stanley Male Quartet

6118 / $1.00 — Robin Adair. . . . . Stanley Male Quartet
When the Corn is Waving; Bingo Song. Stanley Male Quartet

6136 / $1.00 — The Star. . . . . Olive Marshall, Soprano
She is Far From the Land. . . . . George Rasely, Tenor

6122 / $1.00 — Star Spangled Banner . . . . . Graham Marr
Marseillaise. . . . . Graham Marr

5126 / $0.75 — Baby's Prayer at Twilight . . . . . Henry Burr, Tenor
Sambre Et Meuse. . . . . Lyric Military Band

7103 / $1.50 — Samson Et Dalila. . . . . Margaret Abbott, Contralto
Pagliacci. . . . . Mario Rodolfi, Tenor

5113 / $0.75 — Send Me Away With A Smile, Fields & Peerless Quartet
Pack Up Your Troubles In Your Old Kit Bag
Henry Burr & Peerless Quartet

6109 / $1.00 — Sing Me To Sleep. . . . . Charles McGrath, Tenor
Little Grey Home in the West. . . . . James Devlin, Tenor

6135 / $1.00 — Angels Ever Bright and Fair . . . Mary Cavendish, Soprano
Elijah. . . . . Margaret Abbott, Contralto

6119 / $1.00 — Ave Maria. . . . . Amy Castles, Soprano
Good-Bye. . . . . Amy Castles, Soprano

6128 / $1.00 — Birthday of a King. . . . . Burton Thatcher, Baritone
Contique de Noel. . . . . Harry McClaskey, Tenor

6116 / $1.00 — Lead, Kindly Light. . . . . Marion Green, Baritone
Home Sweet Home. . . . . Mary Cavendish, Soprano

6129 / $1.00 — The Long Day Closes. . . . . Lyric Male Quartet
There's A Long, Long Trail. . . . . James Tree, Tenor

5127 / $0.75 — Au Revoir, But Not Good-Bye Soldier Boy. . Flack, Soprano
Red, White and Blue . . . . . Lyric Band

6126 / $1.00 — Robin Hood. . . . . Marion Green & Male Quartet
Massa's in de Cold Cold Ground . . Green & Male Quartet

5109 / $0.75 — Over There. . . . . Arthur Fields & Peerless Quartet
Good-Bye Broadway, Hello France. . . . . Peerless Quartet

5120 / $0.75 — Cheer Up, Liza. . . . . Peerless Quartet
Melody Land. . . . . Peerless Quartet

5110 / $0.75 — I Don't Know Where I'm Going But I'm on My Way
Peerless Quartet
Where Do We Go From Here. . . . . Peerless Quartet

5117 / $0.75 — Night Time In Little Italy. . . . . Collins & Harlan
Down in Borneo Isle. . . . . Collins & Harlan

6101 / $0.75 — Mother Machree . . . . . Charles McGrath
Let Me Like a Soldier Fall From Maritana Charles McGrath

5128 / $0.75 — My Belgian Rose. . . . . John Lawrence, Tenor
Flag of Victory. . . . . Lyric Military Band

5107 / $1.00 — My Bonnie, Bonnie Jean . . . Glen Ellison, Scotch Comedian
It's Nice to Get Up in the Morning Ellison, Scotch Comedian

6115 / $1.00 — My Bonnie Cuckoo. . . . . Mary Cavendish, Soprano
Comin' Thru The Rye. . . . . Mary Cavendish, Soprano

5104 / $0.75 — Nannie. . . . . Glen Ellison, Scotch Comedian
I Love A Lassie. . . . . Glen Ellison, Scotch Comedian

5112 / $0.75 — Joan of Arc. . . . . Henry Burr
From Me To Mandy Lee. . . Albert Campbell & Henry Burr

5135 / $0.75 — Pershing For President. . . . . Arthur Fields
The Navy Will Bring Them Back. . . . . Arthur Fields

5136 / $0.75 — Rose of No Man's Land. . . . . Samuel Ash, Tenor
Till We Meet Again . Hart, Tenor & Elliott Shaw, Baritone

5137 / $0.75 — A Little Birch Canoe And You. . . . . Charles Hart, Tenor
You Don't Know What You're Missing. . Frank Joy, Tenor

5138 / $0.75 — Helen. . . . . Arthur Fileds, Baritone
Ja-Da. . . . . Arthur Fields, Baritone

5139 / $0.75 — Smiles. . . . . Henry Burr, Tenor & Ruth Lenox, Contralto
When You Come Back. . . . . Henry Burr, Tenor

5130 / $0.75 — Good-Bye, Mother Machree. . . . . Henry Burr, Tenor
When I Get Back to My American Blighty.
Arthur Fields, Baritone

5132 / $0.75 — K-K-K-Katy . . . . . Harry Williams, Baritone
In Berry Picking Time. . . . . Harry Williams, Baritone

5134 / $0.75 — When We Went to Sunday School. Henry Burr & Ruth Lenox
Soothing Serenade. . . . . Henry Burr, Tenor

5140 / $0.75 — Dear Old Pal of Mine . . . . . Henry Burr, Tenor
The Return. . . . . Royal Dadmun

5141 / $.075 — The Americans Come. . . . . Royal Dadmun
Madelon. . . . . Arthur Fields

5142 / $0.75 — How Ya Gonna Keep 'Em. . . . . Byron G. Harlan
I Aint'n Gott'n No Time. . . . . Collins & Harlan

5144 / $0.75 — Monte Christo. . . . . Irving Kaufman
Singapore. . . . . Arthur Fields

6103 / $1.00 — Fiddle And I. . . . . Margaret Abbott
Macushla. . . . . Charles McGrath

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Evening Song. . . . . Charles McGrath

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The Sunshine of Your Smile. . . . . James Devlin

6121 / $1.00 — Sweet and Low. . . . . Lyric Male Quartet
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6130 / $1.00 — Villanelle. . . . . Olive Marshall
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T'was Early One Morning. . . . . Mary Cavendish

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Battle Hymn of the Republic. . . . . Burton Thatcher

6127 / $1.00 — Absent . . . . . Hardy Williamson
A Dream. . . . . Hardy Williamson

6133 / $1.00 — The Lost Chord. . . . . Charles McGrath
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6134 / $1.00 — Oh Moon Of My Delight. . . . . Charles McGrath
Venetian Song. . . . . James Devlin

6138 / $1.00 — I Once Loved A Boy. . . . . Mary Cavendish
T'was One Of Those Dreams . . . . Mary Cavendish

6145 / $1.00 — Mother Machree. . . . . Sudworth A. Frasier
I Hear You Calling Me. . . . . Sudworth A. Frasier

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FRICTION POWER HILL CLIMBER

All Metal Construction; Handsomely decorated in various colors; provided with Roller Bearings and Floating Axle. A simple push, raising the toy from the floor for successive sweeps, will generate sufficient power to propel the toy a great distance.

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No. 457—Dimensions 23½x2¾x3¾ inches; Weight per Dozen 16½ lbs. $12.00

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Aerial Ladder Auto Truck; Gray with Red Fenders, Seat and Ladders; Gold Bronzed Wheels and Trimmings; Two Detachable Ladders and One Pivoted to be Extended in the Air; the Other Two Ladders Can be Fitted on Truck Ladder, Making Height Over 50 inches; Removable Enameled Chauffeur

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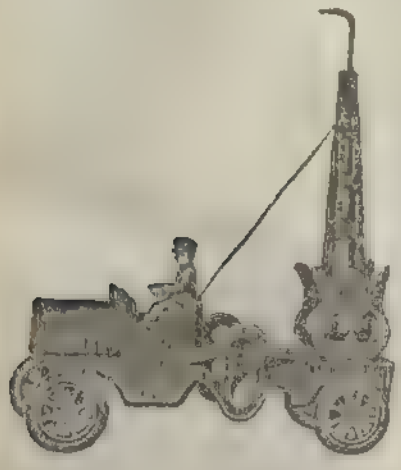

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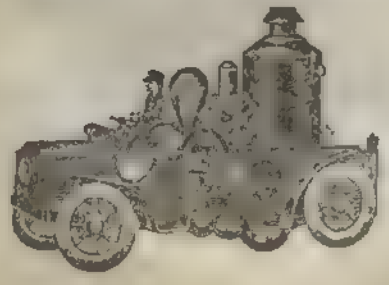

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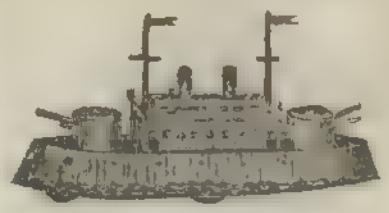

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No. 453—Dimensions 18⅝x1¾x8¾ inches; Weight per Dozen 35¼ lbs. $24.00

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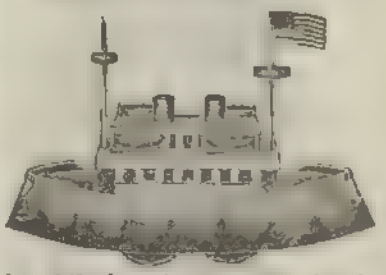

Battleship; Gray Finish, with Green Waterline; Two Red Funnels; Gold Bronzed Masts and Crows Nests; with U. S. Flag; Four Life Boats.

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No. 458—Length 15¾ inches; Height Smokestacks; Weight per Dozen 18 lbs. $12.00

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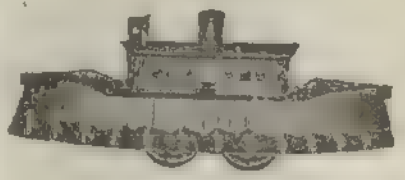

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No. 462—Dimensions 10⅛ [illegible] Weight [illegible] $7.50

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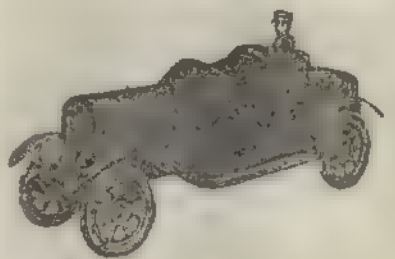

ROADSTER

Brilliant Red, Bronzed Wheels and Decorations with Removable Enameled Chauffeur.

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No. 456—Dimensions Length 13 inches; Height 5½ inches; Width 5 inches; Weight per Dozen 18 lbs. $12.00

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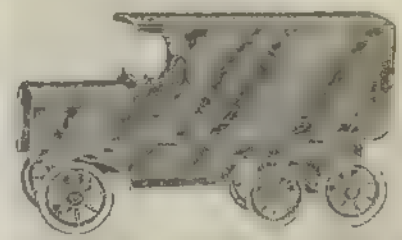

Moving Van; Stamped Steel; Dark Green, with Gold Bronzed Wheels and Decorations; Ample Space Inside for Loading with Small Objects; Removable Enameled Chauffeur.

Per Dozen

No. 455—Length 13¾ inches; Width [illegible]; Height 7 inches; Weight per Dozen 24 lbs. $12.00

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DELIVERY TRUCK

Brilliant Red, Gold Bronzed Wheels and Decorations; Removable Enameled Drivers.

Per Dozen

No. 461—Length 10 inches; Width 3¼ inches; Height 4½ inches; Weight per Dozen 12 lbs. $7.50

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MECHANICAL TOYS
FRICTION POWER

DAYTON

PANAMA-PACIFIC EXPRESS

Railroad Passenger Train; Locomotive and Tender, Same as No. 414; Two Passenger Coaches, Enameled Green with Red Roof and Wheels; Gold Bronzed Decorations; Friction Power on Locomotive Only.

Per Dozen

No. 405—Length 41 inches; Weight per Dozen 50 lbs. **$23 00**
Two Dozen in a Package

FRICTION TOYS

Locomotive and Tender; Enameled Bright Red with Gold Bronzed Wheels and Trimmings; Double Friction, will Run Forward or Backward

Per Dozen

No. 414—Length 17¼ inches; Width 4 inches; Height 4¾ inches; Weight per Dozen 29 lbs. **$11.00**
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TRACTION CAR

The Motorman can be Placed at Either End of the Car, as the Toy will Run Backward or Forward, one way as well as another. Also has Trolley and Belt, which can be Run by Tapping the Bell Cork, just like a Real Street Car.

Beautifully Finished in Green and Red, striped in Gold.

Per Dozen

No. 406—Length 13¾ inches; Width 4½ inches; Height 6½ inches; Weight per Dozen 32 lbs. **$23 00**
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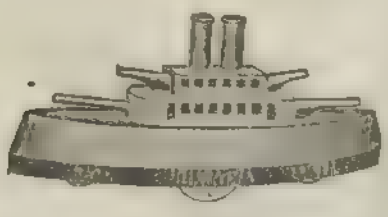


Scout Cruiser; Gray Finish with Blue Water Line; Two Red Funnels; Four Bronzed Cannon; Double Friction, Runs Forward or Backward.

Per Dozen

No. 411—Length 14¾ inches; Width 3½ inches; Height 5¼ inches; Weight per Dozen 25 lbs. **$16 00**

Two Dozen in a Package

MECHANICAL TOYS
FRICTION POWER

DAYTON

AERIAL TRUCK

Representing what is Popularly Termed a "Hook and Ladder Truck," has Four Large Steel Ladders, all of which can be Coupled Together and Raised High into the Air or Lowered, as Desired, by Turning the Small Crank on the Side. When Raised the ladders can be firmly Held at any Altitude Desired by pressing the Hoisting Crank Against the catch Provided. By Releasing the Crank the Extension Ladders will Drop Back Again into Position. This Toy, which is Manned by Two Firemen, is also Equipped with an Automatic Gong, which Rings Continuously whilst Toy is in Motion. Can be Made to Run Either in a Straight Way Course or in a Circle by Adjusting the Front Wheels, as desired.

Enameled Red, Gold Bronzed Wheels and Fenders and Gold Bronze Decorations.

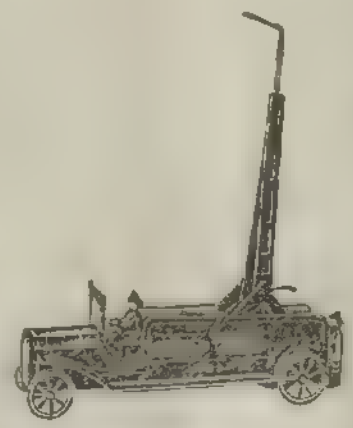
Per Dozen

No. 402—Length 20 inches; Width 4¾ inches; Height 8 inches; Height Ladders fully Extended over 50 inches; Weight per Dozen 48 lbs. **$23 00**
Two Dozen in a Carton

Fire Ladder Truck; Bright Red; Gold Bronzed Wheels, Fenders and Trimmings; Two Removable Green Ladders, 7 inches Long; Removable Enameled Chauffeur.

Per Dozen

No. 415—Length 12 inches; Width 4¾ inches; Height 5½ inches; Weight per Dozen 26 lbs. **$16 00**
Two Dozen in a Package



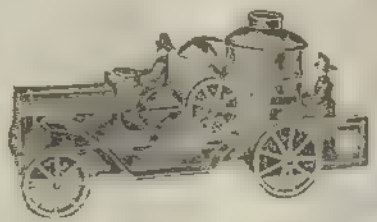
WATER TOWER

Enameled Steel Chauffeur; Enameled Iron Engine.

The Tower and Water Pipe can be Raised High into the Air, and Lowered, as Desired, by [illegible] the small Cranks on the side. It is Manned by Two Firemen, has Automatic Gong, which Rings Continuously while Toy is in Motion, Front Wheel can be adjusted so as to Make it Run Straight or in a Circle. Beautifully Painted in Orange with Red, Green and Gold Trim and Gold Bronzed Tower and Wheels.

Per Dozen

No. 404—Length 20 inches; Width 5 inches; Height 8 inches, Weight per Dozen 48 lbs. **$23 00**
Two Dozen in a Carton



DAYTON FRICTION TOYS

Fire Engine; Brilliant Red, Copper Bronzed Wheels, Fenders, Boiler and Gong; Removable Enameled Steel Chauffeur; Removable Enameled Iron Engineer; Double Friction Motor, Runs Forward or Backward.

Per Dozen

No. 401—Length 14 [illegible] inches; Width 4¾ inches; Height 7 inches. Weight per Dozen 40 lbs. **$23 00**

Two Dozen in a Package

MECHANICAL TOYS

FRICTION POWER

DAYTON

Touring Car; Enameled White; Gold Bronzed and Pink Trimmings; Gold Bronzed Wheels; Enameled Removable Chauffeur and Passenger; Double Friction Motor, Runs Forward or Backward.

Per Dozen

No. 403—Length 13¼ Inches; Width 4¾ inches; Height 7¼ inches; Weight per Dozen, 36 lbs. **$23 00**

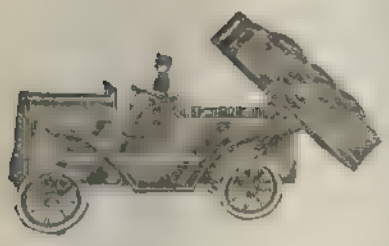
Two Dozen in a Package

Parcel Post Auto; Large Compartment in Front of Driver which May Be Filled with Small Articles; Enameled Yellow; Blue Fenders, Radiator and Seats; Gold Bronzed Wheels and Trimmings; Removable Enameled Chauffeur; Double Friction Motor, Runs Forward or Backward.

Per Dozen

No. 409—Length 12¼ inches; Width 4¾ inches; Height 6 inches; Weight per Dozen 26 lbs. **$16 00**

Two Dozen in a Package



Automobile Dray, with Dumping Hopper; Enameled Yellow, with Red Seat and Fenders; Gold Bronzed Wheels and Trimmings; Box or Tray Dumps Contents When Lever Releases Lock; Front Wheels Turn to Run in a Circle; Removable Enameled Chauffeur; Complete with Three Striped Turned Hardwood Barrels; Double Friction Motor; Runs Forward or Backward.

Per Dozen

No. 413—Length 13¼ Inches; Width 4¾ inches; Height 6 inches; Weight per Dozen 30 lbs. **$16 00**

Two Dozen in a Package

COASTER

One of the Swiftest and Easiest Running Toys Made; Has a Large Artistically Designed Figure of a Boy on the Sled, and it Will Not Only Coast Down, But Also Run Up Hill.

Strikingly Enameled in Brilliant Colors.

Per Dozen

No. 412—Length, 9 inches; Width 2½ inches; Height 5¾ inches; Weight Each 1 lb. **$10 00**

Two Dozen in a Carton

MECHANICAL TOYS

FRICTION POWER

DAYTON

TRICKY DUCK

One of the Toys which Has Established its Place Amongst the Others of Our Line as a Staple Article. With Wings Extended in a Stationary Position, it Will Run Easier, Farther and Faster Than Ever Before, Backward or Forward in a Large or Very Small Circle. Handsomely Finished in Bright Colors.

Per Dozen

No. 410—Length 8½ inches; Width 4 inches; Height 7½ inches; Weight Each 1¾ lbs. **$11.00**

Two Dozen in a Carton

SOME MULE

The Mule's Head is Geared to Front Wheels, so that it Nods with Each Step, and Pulls the Reins, Adding Materially to the Novelty of the Toy.

The Man Can be Removed and Placed on the Mule's Back, if Desired. This Toy is Equipped with a Double Friction Motor, and Will Travel Either Forward or Backward.

Finished in Dapple Gray, Trimmed in Red and Gold.

Per Dozen

No. 408—Length 10¼ inches; Width 3 inches; Height 6½ inches; Weight each 1¼ lbs. **$11.00**

Two Dozen in a Carton

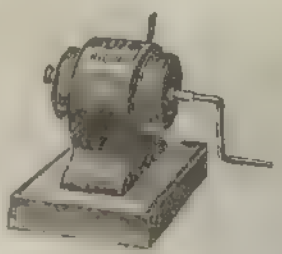
ELEPHANT

The Man Seated Behind the Elephant Can be Removed and Placed on the Elephant's Head or Back, Similar to the Way He Usually Rides in a Regular Circus Parade. The Head of the Elephant is Arranged so That it Moves when the Toy is in Motion. This Toy is Equipped with Our Full Friction Power and Will Travel Either Forward or Backward. Painted Dark Gray, Trimmings Red, Yellow and Red.

Per Dozen

No. 407—Length 10¾ inches; Width 3 inches; Height 6¾ inches; Weight Each 1½ lbs. **$11 00**

Two Dozen in a Carton



REVERSIBLE MOTOR

Powerful Motor, which, by Turning a Crank Shaft, Starts in Motion a Perfectly Balanced Fly Wheel. Power Can be Shifted to Three Positions, Forward, to a Stop, and Reverse, and Can Be Run at any Rate of Speed Desired. This Motor Does Not Require Batteries or Electricity, the First Cost Being the Only Cost. It Is Fitted with a Suitable Base so That it Can Be Used with Any Construction Toys Now on the Market

Enameled Bright Red, Yellow Base, Light Blue Stripes.

Per Dozen

No. 418—Length 6 inches; Width 3½ inches; Height 4¼ inches. Weight Each 1½ lbs **$20 00**

Two Dozen in a Carton

MECHANICAL TOYS

CLOCK SPRING MOTOR

AUTOMOBILE

Stamped Steel; Red Enameled, with Gold Bronzed Fen- [illegible] tions; Strong Clock Works Motor, Winds Up by Turning Starting Crank; Hollow Formed Wheels; with Bright Enameled [illegible].

Per Dozen

No. 420—Length 8 inches; Weight per Dozen, 12½ lbs..... **$20 00**

Two Dozen in a Package

AUTOMOBILE

[illegible] meled Light Blue; [illegible] Radiator; Gold [illegible] Clock Works Motor Which Winds Up by Turning Starting Crank; Hollow Formed Wheels.

Per Dozen

No. 416—Length 12¾ inches; Weight per Dozen 22 lbs.....**$20 00**

Two Dozen in a Package

ARMORED MOTOR TRUCK

[illegible], Body [illegible] Enameled, Yellow Fenders and Wheels, Imitation Rubber Tires, Equipped with Black Imitation Cannon and Aeroplane Gun.

Per Dozen

No. 2028 [illegible] 7 inches; Width 6¾ inches; Height 7¼ inches; Diameter of Wheels 3¾ inches; Weight Each 3½ lbs..... **$48 00**

Twelfth Dozen in a Box

AUTO ROADSTER

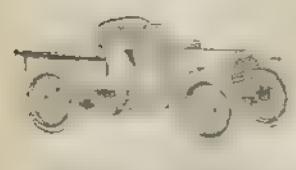
An Exact Replica of a Real Automobile

Stamped Steel, Body Brown Enameled, Red Seats, Red Enameled Wheels; Imitation Rubber Tires, Gold Bronzed [illegible] and Steering Wheel; Patent Bumpers.

Per Dozen

No. 2025—Length [illegible], Width [illegible], Height [illegible], Diameter of Wheels 3¾ inches; Weight [illegible] **$27 00**

Twelfth Dozen in a Box



AUTO TRUCK

Stamped Steel, [illegible] Bright Blue En[illegible] and [illegible] Yellow [illegible] Gold [illegible] and Steering Wheel; [illegible] Wheels, Patent [illegible]

Per Dozen

No. 710 [illegible] Width 6 inches; Height 6¾ inches; [illegible] 3¾ inches; Weight 2¾ lbs.....**$18.00**

Twelfth Dozen in a Box

ARMORED AUTOMOBILE

Stamped Steel, Body Gray Enameled; Bright Yellow Fenders and Wheels, Equipped with Imitation Cannon and Aeroplane Gun.

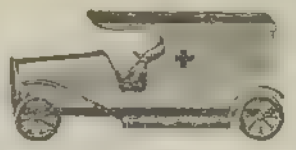
Per Dozen

No. 2027—Length 10½ inches, [illegible] inches; Height 4¾ inches Weight Each 1¼ lbs [illegible] **$13 50**

Twelfth Dozen in a Box

MECHANICAL TOYS

CLOCK SPRING MOTOR



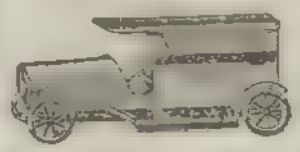
AUTO AMBULANCE

Stamped Steel, Body White Enameled; Bright Yellow Fenders and Wheels.

Per Dozen

No. 2026—Length 10½ inches; Width 4 inches; Height 4¾ inches; Weight 1¼ lbs [illegible] **$13.50**

Twelfth Dozen in a Box



SPECIAL DELIVERY AUTO

Stamped Steel, Body Finished with bright Blue Enamel; Yellow Fenders and Wheels.

Per Dozen

No. 2022—Length 10¼ inches; Width 4½ inches; Height 4 inches; Weight 1¼ lbs. [illegible] **$12 00**

Twelfth Dozen in a Box

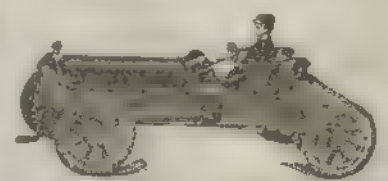
AUTOMOBILE LADDER TRUCK

Heavy Stamped Steel; Enameled in Bright Yellow and Red, Clock Works Motor; Ladder Equipped with Contrivance and Spring so that at Movement of Lever, Sections Automatically Form into a Solid Ladder Standing Erect on the Car.

Per Dozen

No. 1424—Length 9¾ inches; Height 4¾ inches; Height with Ladders Extended 15½ inches; Weight per Dozen 10 lbs..... **$16 00**

One in a Package



AUTO RACER

Heavy Stamped Steel; Enameled Gray with Red Wh[illegible] Red and Gold [illegible] Clock Works Motor; Steering Front Wheels; Very Durable and Attractive. Per Dozen

No. 1426—Length 9 [illegible] Height 4¼ inches, Weight per Doz[illegible] 11 lbs.. [illegible] **$16 00**

One in a Package

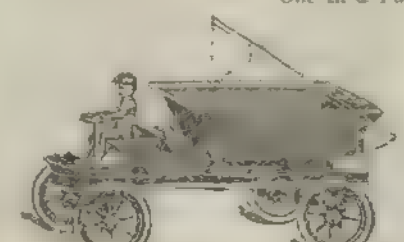
AUTOMOBILE FIRE ENGINE

Heavy St[illegible]ed Steel, Enameled Red with Gold Bronzed Trimmings; and [illegible] Yellow Wheels; Clock Works Motor; Steering Front Wheels; Very Durable and Attractive.

Per Dozen

No. 1425—Length 9¼ inches; Height 5 inches; Weight per Dozen 10 lbs.....**$16 00**

One in a Package



AUTOMOBILE TRUCK

With Dumping Hopper; Heavy Stamped Steel, Enameled Blue with Red Wheels, Clock Works Motor; Steering Front Wheels; Very Durable and Attractive.

Per Dozen

No. 1427 [illegible] inches, [illegible] inches, Weight per Dozen 11 lbs ...**$16 00**

[illegible] Package

GENTLEMEN'S 18 SIZE WATCH WORKS OR MOVEMENTS

Stem Winding, Pendant and Lever Setting

We Fit all Cases to Movements and Regulate Watches (no charge) before Shipping

Prices quoted on this page are for the Works or Movements only. For Cases to fit any Movement shown on this page, see pages 4 to 10 (or Nos. 8000 to 8115), inclusive. Add the price of the Case wanted to that of the Movement desired, which will give you the price of the complete Watch. When ordering Watches simply quote the number of Movement and Case wanted.

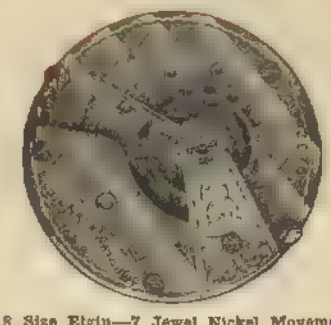
18 Size New York Standard 7 Jewel, Nickel Movement

No. 64 is Hunting Style
No. [illegible] is Open Face Style

7 jewels [illegible] expansion balance, [illegible] bearings in [illegible] nickel frame, compensating [illegible] balance, [illegible] bushing, stem wind, [illegible] and [illegible]

No. [illegible] Hunting style, lever set [illegible] $[illegible]
No. [illegible] Open face style, pendant set [illegible]

Orders Filled
Same Day
Received
No Delay



18 Size Elgin—7 Jewel Nickel Movement

No. 288 is Open Face style.

Pendant winding, 7 jewels (settings), ruby bal[illegible] jewels, exposed pallet stones, cut expansion balance, Breguet hairspring, with polished oval reg[illegible] dust ring, sunk second dial, plates damas[illegible]

No. [illegible] Open face style only, pendant set $10 50
(Not made in Hunting style.)

18 Size Dueber Hampden "Champion"—7 Jewel Nickel Movement

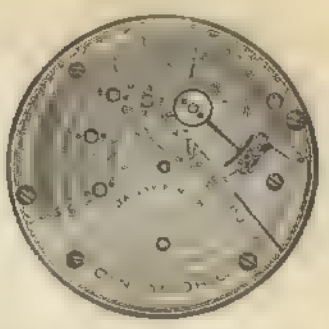
7 jewels expansion balance, Breguet hairspring patent center pinion, spade hands, sunk second dial

No. [illegible] Hunting style, lever set . $11 20
No. [illegible] Open face style, pendant set . 11 20

18 Size Waltham No. 18 7 Jewel Nickel Movement

7 jewels [illegible] screws, patent Breguet hairspring, [illegible] exposed pallets, highly finished and [illegible] polished and gilded index plate.

No. [illegible] Hunting style, lever set $12 00
No. [illegible] Open face style, pendant set 12 00



18 Size Dueber Hampden—"Dueber Watch Co."—15 Jewel Nickel Movement

[illegible] jewels in compensation settings, Breguet hairspring, patent regulator, sunk second dial, Roman or Arabic figures, patent center pinion, bright flat screws elegantly engraved and damaskeened

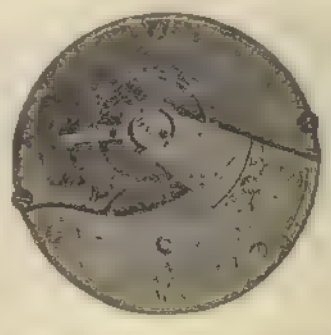
No. [illegible] Open face style only, pendant set $14 00
(This movement not made in Hunting style.)

18 Size Elgin—15 Jewel Nickel Movement

No. 316 is Hunting style
No. 317 is Open Face style

Fitted with [illegible] 15 jewels (settings) ruby bal[illegible] jewels, exposed pallet stones, cut expansion balance, Breguet hairspring, micrometric regulator, dust ring, sunk second dial, plates damaskeened.

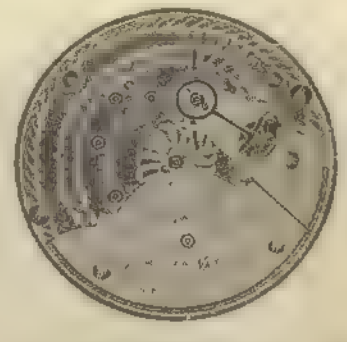
No. 8531 Hunting style, lever set.... $[illegible] 50
No. 8532 Open face style, pendant set . 15 80



18 Size Waltham No. 820 15 Jewel Nickel Movement

[illegible] jewels in compensation expansion balance, [illegible] screws, patent Breguet hairspring, [illegible] and [illegible] exposed pallets highly [illegible] polished gilded index, micrometric oval regulator, polished and gilded index plate.

No. 8533 Hunting style lever set $16 85
No. 8534 Open face style, pendant set 16 85



18 Size Dueber Hampden—17 Jewel Nickel Movement

No. 64 is Open Face style.

17 jewels in composition settings, patent center pinion, Breguet hairspring, micrometric regulator, expansion balance, bright flat screws, engraved plates elegantly damaskeened, sunk second Arabic or Roman dial.

No. 8535 Open face style only, pendant set $16 80
(This movement not made in Hunting style.)

GENTLEMEN'S 12 SIZE SILVER AND NICKEL WATCH CASES

Stem winding and stem setting

Crescent—Nickel

Open face style, screw bezel, swing ring, solid plain polish back
No. 8505 Plain reflector $2 65
No. 8506 Grided reflector 1 55

Prices quoted on this page are for CASES ONLY. For MOVEMENTS or WORKS to fit any of these cases shown on this page, see pages 38 to 40 (or Nos. 8656 to 8701), inclusive.

Add the price of the MOVEMENT wanted to that of the CASE desired, which will give you the price of the COMPLETE WATCH. When ordering Watches simply quote the NUMBER OF CASE AND MOVEMENT wanted.

We fit all movements to cases and regulate watches before shipping

Crown—Silverode, Plain Polish

No. 8507 Open face style, screw back and screw bezel .$1 80

Keystone—Silveroid

Open face style, screw back and screw bezel plain polish back
No. 8508 .. .. .. $1 95

Crown—Silverode, Engine Turned

No. 8509 Hunting style $3 00
No. 8510 Open face style screw back and screw bezel 1 60

Crown—Silverode, Engraved

No. 8511 Hunting style $3 00
No. 8512 Open face style screw back and screw bezel . 1 60

Crown—Silver, Engraved

No. 8513 Hunting style .....$9 1(
No. 8514 Open face style screw back and screw bezel 6 4(

Fine silk lined leatherette watch box and chamois watch bag furnished free of charge with each complete watch

Crown Silver, Plain Polish

No. 8515 Open face style, screw back and screw bezel .$5 85

Crown Silver, Gold Inlaid

No. 8516 Hunting style $13 90

Crown Silver, Plain Polish

No. 8517 Hunting style $8 25
No. 8518 Open face style, screw back and screw bezel .. 5 85

Crown Silver—Engine Turned

No. 8519 Hunting style $8 2·
No. 8520 Open face style screw back and screw bezel 8

GENTLEMEN'S 18 SIZE WATCH WORKS OR MOVEMENTS

Stem Winding, Pendant and Lever Setting

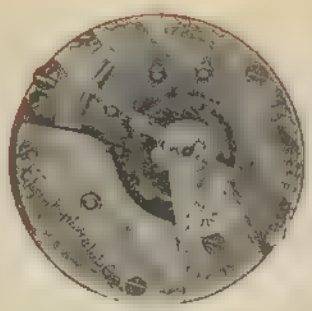
We Fit all Cases to Movements and Regulate Watches (no charge) before Shipping

Prices quoted on this page are for the Works or Movements only. For Cases to fit any Movement shown on this page, see pages 4 to 10 (or Nos. 8000 to 8115, inclusive. Add the price of the Case wanted to that of the Movement desired, which will give you the price of the complete Watch. When ordering Watches simply quote the number of Movement and Case wanted.

18 Size Illinois No. 69—17 Jewel Nickel Movement

17 jewels, in settings, compensating balance, with timing screws, Breguet hairspring, patent regulator

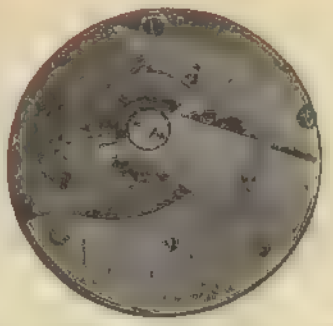
No. 8536 Hunting style, lever set.....$17 00
No. 8537 Open face style, lever set..... 17.00



18 Size Elgin—17 Jewel Nickel Movement
No. 835 is Hunting style.
No. 836 is Open Face style

Pendant winding, 17 jewels (settings), ruby and sapphire balance and center jewels, exposed pallet stones, cut expansion balance, Breguet hairspring, with micrometric regulator, dust ring, depressed center sunk second dial, plates damaskeened.

No. 8538 Hunting style, lever set..... $18 45
No. 8539 Open face style, pendant set 16.45



18 Size Waltham No. 825—17 Jewel Nickel Movement

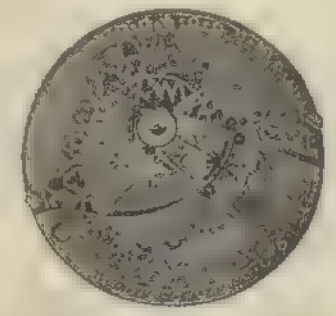
17 jewels in settings, cut expansion balance, [illegible] screws, patent Breguet hairspring, hardened and tempered in form, exposed pallets, highly finished patent micrometric oval regulator, polished and gilded index plate

No. 8540 Hunting style, lever set, .. $19 95
No. 8541 Open face style, pendant set ... 19.95

18 Size Illinois No. 89—17 Jewel Nickel Movement

17 jewels, polished settings, adjusted to temperature, compensating balance, with timing screws, Breguet hairspring, patent regulator, gilt steel work, damaskeened in attractive gold and nickel pattern, double sunk dial.

No. 8542 Hunting style, lever set $22.70
No. 8543 Open face style, lever set ... 22 70



18 Size Waltham, P. S. Bartlett or Namless No. 87—17 Jewel Nickel Movement

17 jewels in settings, adjusted to temperature, compensating balance, meantime screws, [illegible] Breguet hairspring, hardened and tempered in form, exposed pallets, patent micrometric regulator.

No. 8544 Hunting style, lever set $25 65
No. 8545 Open face style, pendant set.. 25 65

18 Size Elgin—G. M. Wheeler—17 Jewel Nickel Movement

Lever setting, [illegible] winding, 17 [illegible] ruby and sapphire [illegible] double dust ring or [illegible] exposed pallet stones, [illegible] Breguet hairspring, with [illegible] regulator, adjusted to temperature, [illegible] winding wheels, [illegible] setting device, dust ring, double sunk glass enamel dial, plates damaskeened, engraving inlaid with gold

No. 8546 Open face style only, lever set...$34.45
(Not made in Hunting style.)

18 Size Dueber Hampden—"Dueber Watch Co."—21 Jewel Nickel Movement

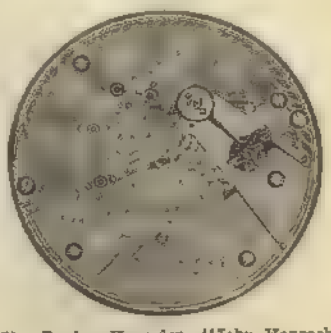
21 fine ruby and sapphire jewels in composition settings, escapement cap jeweled, compensation balance, gilt screws, adjusted to temperature, isochronism and five positions, steel escape wheel, Breguet hairspring, meantime screws, new model stud, patent micrometer regulator bright beveled head screws, patent center pinion, polished steel work, double sunk glass enamaled dial, finely damaskeened and finished throughout, gold lettering, and double-roller escapement.

No. 8547 Open face style only, lever set....$38 30
(This movement not made in Hunting style.)

18 Size Illinois Bunn 17 Jewel Nickel Movement

17 ruby and sapphire jewels, gold settings, adjusted to temperature, five positions and isochronism, compensating balance, gold screws, including timing screws, double-roller steel escape wheel, double-sunk dial.

No. 8548 Hunting style, lever set $42 55
No. 8549 Open face style, lever set 42 55



18 Size Dueber Hampden, "John Hancock"—21 Jewel Nickel Movement

21 fine ruby and sapphire jewels in solid gold settings, sapphire roller jewel and pallet stones, steel escape wheel, patent center pinion, escape pinion and pallet arbor conical pivoted and cap jeweled, micrometer regulator, Breguet hairspring, new model stud, compensation balance with gold screws and meantime screws, adjusted to temperature, isochronism and five positions, double-sunk glass enameled dial, red marginal figures, finely damaskeened, gold lettering, polished steel work, first [illegible] Hampden [illegible] sinking and double roller escapement

No. 8550 Open face style only, lever set $44 30
(This movement not made [illegible] ring style.)

GENTLEMENS 18 SIZE WATCH WORKS OR MOVEMENTS

Stem Winding, Lever Setting

We fit all Cases to Movements and regulate Watches (no charge) before shipping

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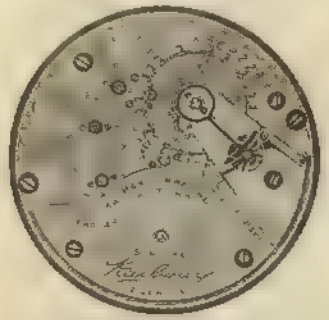
Movements shown on this page are all high grade Railroad Watches and will pass Railway Inspection

18 Size Waltham—Appleton Tracy & Co.—17 Jewel Nickel Movement

17 ruby and sapphire jewels in settings, adjusted to temperature and three positions, compensating balance in recess, meantime screws, patent Breguet hairspring, hardened and tempered in form, double roller escapement, sapphire jewel pin permanently driven into the roller, exposed sapphire pallets, steel escape wheel, patent micrometric regulator, tempered steel safety barrel, exposed winding wheels, double-sunk dial.
No. 8551 Open face style only, lever set . . $44 70
(Not made in Hunting style.)



18 Size Dueber-Hampden "Special Railway"—21 Jewel Nickel Movement

21 extra fine ruby and sapphire jewels in solid gold settings, sapphire roller jewel and pallet stones, steel escape wheel, jeweled center, patent center pinion, escape pinion and pallet arbor with conical pivots, cap jeweled, patent micrometric regulator, Breguet hairspring, new model stud, compensation balance with gold screws and meantime screws, accurately adjusted to temperature, isochronism and five positions, double sunk glass enameled dial with red marginal figures, bevel head screws, elegantly engraved and damaskeened, first quality "Hampden" mainspring and double roller escapement.
No. 8554 Open face style only, lever set . . $52 30
(This movement not made in Hunting style.)

18 Size Illinois, Bunn Special—23 Jewel Nickel Movement

23 ruby and sapphire jewels gold settings adjusted to temperature six positions and isochronism, compensating balance gold screws, including timing screws, double roller steel escape wheel, Illinois jeweled barrel double sunk dial.
No. 8558 Hunting style, lever set. . . $68.10
No. 8559 Open face style, lever set. . . . 68.10

18 Size Dueber-Hampden "New Railway"—23 Jewel Nickel Movement

23 fine ruby and sapphire jewels in gold settings, barrel arbor and center staff jeweled with fine sapphires, escapement cap jeweled, conical pivots, patent micrometric regulator, compensating balance gold screws, steel escape wheel, Breguet hairspring, meantime screws, new model stud, adjusted to temperature, isochronism and five positions, patent center pinion, polished steel work, double-sunk glass enameled dial in Arabic or Roman figures, finely damaskeened and finished throughout, gold lettering, double roller escapement.
No. 8552 Open face style only, lever set. . . $49 60
(This movement not made in Hunting style.)

18 Size Illinois—Bunn Special—21 Jewel Nickel Movement

21 ruby and sapphire jewels gold settings adjusted to temperature six positions and isochronism, compensating balance, gold screws, including timing screws, double roller, steel escape wheel, double-sunk dial.
No. 8555 Hunting style, lever set. $58 90
No. 8556 Open face style, lever set 53 90

18 Size Waltham No. 845—21 Jewel Nickel Movement

21 fine ruby and sapphire jewels in settings, adjusted to temperature, isochronism and five positions, compensating balance in recess, meantime screws, patent Breguet hairspring, hardened and tempered in form, double roller escapement, sapphire jewel pin permanently driven into the roller, exposed sapphire pallets, steel escape wheel, patent micrometric regulator, jeweled mainwheel bearings, tempered steel safety barrel, exposed winding wheels, double-sunk dial.
No. 8560 Open face style only, lever set. . . $56 20
(Not made in Hunting style.)

18 Size Illinois—A. Lincoln—21 Jewel Nickel Movement

21 ruby and sapphire jewels gold settings, adjusted to temperature, five positions and isochronism, compensating balance with timing screws, double roller, steel escape wheel, double-sunk dial.
No. 8553 Open face style only, lever set . . $49 60
(This movement not made in Hunting style.)

18 Size Elgin—B. W. Raymond—19 Jewel Nickel Movement

Lever setting for railroad service, pendant winding, nineteen diamonds, ruby and sapphire jewels, gold jewel settings, barrel arbor pivots running in jewels, double roller escapement, steel escape wheel, exposed sapphire pallet stones, compensating balance, pivots running on diamonds, Breguet hair spring with micrometric regulator, adjusted to temperature, isochronism, five positions, safety barrel with spring box rigidly mounted on bridge, exposed winding wheels, patent recoiling click and self-locking setting device, dust ring, double sunk glass enamel dial, engraving inlaid with gold, plates damaskeened and finely finished.
No. 8557 Open face style only, lever set, $55.20
(Not made in Hunting style.)

18 Size Elgin, Father Time—21 Jewel Nickel Movement

Lever setting for railroad service, pendant winding, twenty-one diamond, ruby and sapphire jewels, gold jewel settings, double roller escapement, steel escape wheel, exposed sapphire pallet stones, pallet arbor cone-pivoted and cap jeweled, escape pinion cone-pivoted and cap jeweled, compensating balance pivots running on diamonds, Breguet hairspring with micrometric regulator, adjusted to temperature, isochronism, five positions, safety barrel with spring box rigidly mounted on bridge, exposed winding wheels, patent recoiling click and self-locking setting device, dust ring, double sunk glass enamel dial, engraving inlaid with gold, plates beautifully damaskeened and finely finished.
No. 8561 Open face style only, lever set. . $62 00
(This movement not made in Hunting style.)

GENTLEMEN'S 18 SIZE WATCH WORKS OR MOVEMENTS

Stem Winding, Lever Setting

We fit all Cases to Movements and regulate Watches (no charge) before shipping

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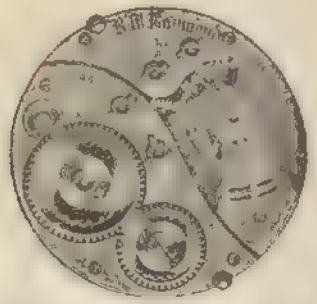
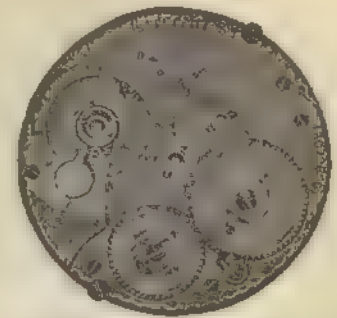
Movements shown on this page are all high grade Railroad Watches and will pass Railway Inspection



18 Size Elgin B. W. Raymond 21 Jewel—Nickel Movement
Lever Setting for Railroad Service

21 diamond, ruby and sapphire jewels, gold jewel settings, double roller escapement with steel escape wheel, exposed sapphire pallet stones, pallet arbor and escape pinion, cone pivoted and cap jewelled, compensating balance, Breguet hairspring with micrometric regulator, adjusted to temperature, isochronism and five positions, safety barrel with spring box rigidly mounted on bridge, exposed winding wheels, patent recoiling click and self locking setting device, double sunk glass dial, plates beautifully damaskeened and finely finished, engraving inlaid with gold

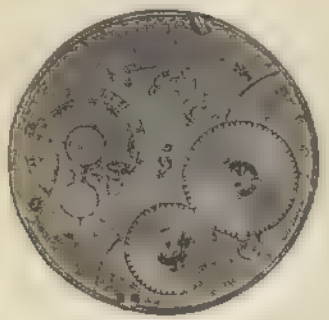
No. 8562 Open face style only, lever set $67.40
(This movement not made in Hunting style)



18 Size Waltham, Crescent Street Nickel Movements

Fine ruby and sapphire jewels, gold settings, adjusted to temperature, isochronism and five positions, compensating balance in recess, meantime screws, patent Breguet hairspring, hardened and tempered in form, double roller escapement, sapphire jewel pin permanently driven into the roller, exposed sapphire pallets, steel escape wheel, patent micrometric regulator, jeweled main wheel bearings, tempered steel safety barrel, exposed winding wheels, double sunk dial.

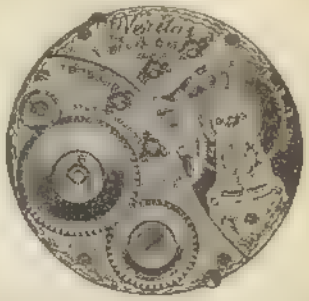
No. 8563 19 Jewels Open face, lever set $64.50
No. 8564 21 Jewels Open face, lever set..... 66.40
(Not made in Hunting style)



18 Size Waltham Vanguard—Nickel Movements

Fine ruby and sapphire jewels, raised gold settings, adjusted to temperature isochronism and five positions, compensating balance in recess, meantime screws, patent Breguet hairspring, hardened and tempered in form, both balance pivots running on diamonds, double roller escapement, sapphire jewel pin permanently driven into the roller, exposed sapphire pallets, steel escape wheel, embossed gold patent micrometric regulator, jeweled main wheel bearings, tempered steel safety barrel, exposed winding wheels, elaborately finished nickel plates with gold lettering, steel parts chamfered, double sunk dial.

No. 8565 19 Jewels Open face, lever set $74.70
No. 8566 21 Jewels Open face, lever set 81.70
No. 8567 23 Jewels Open face, lever set 86.80
(Not made in Hunting style)



18 Size Elgin Veritas—23 Jewel Nickel Movement

Lever setting for railroad service, pendant winding, twenty-three diamond, ruby and sapphire jewels, gold jewel settings, barrel arbor pivots running in jewels, double roller escapement, steel escape wheel, pallet and fork exposed sapphire pallet stones, pallet arbor and escape pinion cone pivoted and cap jewelled, escapement wheel compensating balance, pivots running on diamonds, Breguet hairspring with micrometric regulator, adjusted to temperature, isochronism, five positions, safety barrel with spring box rigidly mounted on bridge, exposed winding wheels, patent recoiling click and self locking setting device, double sunk glass enamel dial, engraving inlaid with gold, plates beautifully damaskeened and finely finished

No. 8568 Open Face style only, lever set $80.25
(This movement not made in Hunting style)

ELGIN 18 SIZE RAILROAD WATCHES

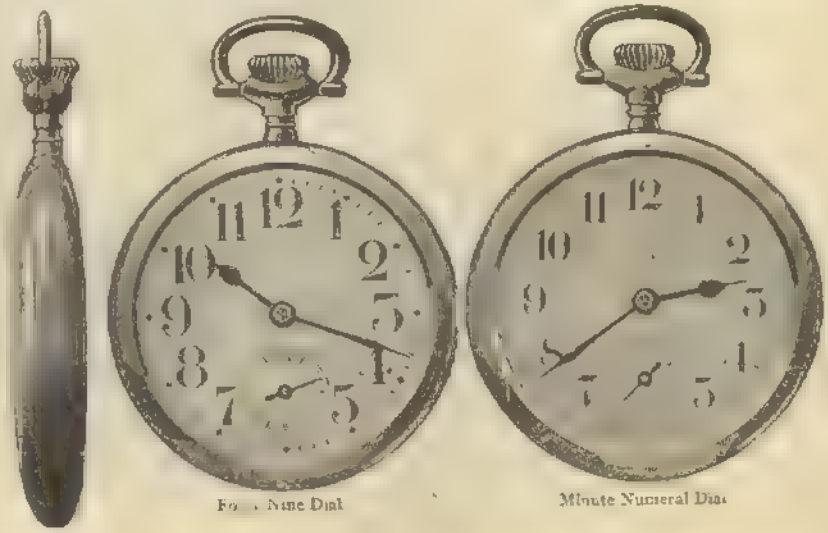
Elgin complete Railroad Watches conform to all Railroad time-service rules.

No article of modern Railroad equipment carries a fairer, broader guarantee. The Railroad Man who buys an Elgin buys not merely a watch but *permanent time-service.*

Prices of Elgin Complete Railroad Watches

Fitted in Special Thin Model 20 Year Cases

No. 8569 Veritas, 23 jewels, complete watch ... $93.05
No. 8570 Father Time, 21 jewels, complete watch 72.75
No. 8571 B. W. Raymond, 21 jewels, complete watch 78.15
No. 8572 B. W. Raymond, 19 jewels, complete watch 65.90



Fancy Nine Dial

Minute Numeral Dial

GENTLEMEN'S 16 SIZE WATCH WORKS OR MOVEMENTS

Stem Winding, Pendent and Lever Setting

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16 SIZE DUEBER-HAMPDEN "WM. McKINLEY"—17 JEWEL NICKEL MOVEMENT

17 jewels, open face and hunting, adjusted, pendant settings, steel escape wheel, ruby and sapphire jewels in composition settings, double sunk glass enameled dial with red marginal figures.

No. 8[illegible] Hunting style, pendant set....$[illegible]
No. 85[illegible]9 Open face style, pendant set... 25 85

16 SIZE ILLINOIS NO. 304—17 JEWEL NICKEL MOVEMENT

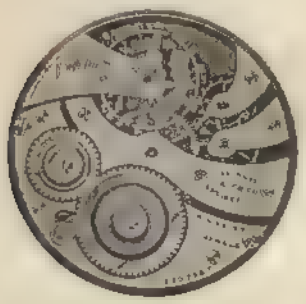
17 jewels, compensating balance, with timing screws, rounded arm train wheels, steel escape wheel, Breguet hairspring, double sunk dial

No. 8600 Hunting style, pendant set....$26.55
No. 8601 Open face style, pendant set... 26 55

16 SIZE ELGIN—17 JEWEL NICKEL MOVEMENT
No. 386 is Hunting style
No. 387 is Open Face style

Pendant set, 17 jewels (settings), ruby and sapphire balance and center jewels, exposed pallet stones, cut expansion balance, Breguet hairspring with micrometric regulator, exposed winding wheels, patent recoiling click and self-locking setting device, depressed center sunk second dial, dust ring, damaskeened plates

No. 8602 Hunting style, pendant set $27 95
No. 8603 Open face style, pendant set 27 95



16 SIZE ILLINOIS NO. 305—17 JEWEL NICKEL MOVEMENT

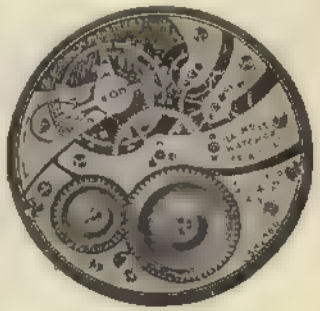
17 jewels, adjusted to temperature, compensating balance with timing screws, steel escape wheel, rounded arm train wheels, gold center wheel, Breguet hairspring, patent regulator, double sunk dial

No. 8604 Hunting style, pendant set....$29 80
No. 8605 Open face style, pendant set... 29.80

16 SIZE ELGIN—17 JEWEL NICKEL MOVEMENT
No. 381 is Hunting style.
No. 382 is Open Face style

Pendant set, 17 jewels (settings), ruby and sapphire balance and center jewels, adjusted to temperature, exposed pallet stones, compensating balance, Breguet hairspring, with micrometric regulator, exposed winding wheel, patent recoiling click and self-locking setting device depressed center sunk second dial, dust ring damaskeened plates.

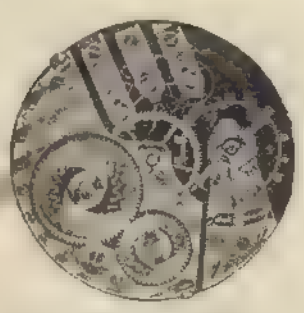
No. 8606 Hunting style, pendant set....$29.80
No. 8607 Open face style, pendant set... 29 80



16 SIZE ILLINOIS NO. 706—17 JEWEL NICKEL MOVEMENT

17 jewels, adjusted to temperature and 4 positions, compensating balance, with timing screws, steel escape wheel, rounded arm train wheels, gold center wheel, Breguet hairspring, patent regulator, double sunk dial.

No. 8608 Hunting style, pendant set ...$34.05
No. 8609 Open face style, pendant set... 34 05



16 SIZE ELGIN G M WHEELER—17 JEWEL NICKEL MOVEMENT

Pendant winding and setting, 17 jewels (settings), ruby and sapphire balance and center jewels, [illegible] pallet stones, compensating balance, Breguet hairspring, with micrometric regulator, adjusted to temperature, isochronism, 3 positions, exposed winding wheels, patent recoiling click and self-locking setting device, dust ring, double sunk glass enameled dial, plates damaskeened, engraving inlaid with gold

No. 8610 Hunting style, pendant set... $34 50
No. 8611 Open face style, pendant set... 34 50

16 SIZE P. S. BARTLETT—17 JEWEL NICKEL WALTHAM MOVEMENT

17 jewels in settings, adjusted to temperature, compensating balance, meantime screws, patent Breguet hairspring, hardened and tempered in form, patent detachable balance staff exposed pallets, red gilded center wheel, patent micrometric regulator tempered steel safety barrel, exposed winding wheels.

No. 8612 Hunting style, pendant set....$37 05
No. 8613 Open face style, pendant set... 37 05

16 SIZE DUEBER HAMPDEN—"RAILWAY"—19 JEWEL NICKEL MOVEMENT

19 jewels, open face only, lever setting, double roller escapement, steel escape wheel, extra fine ruby and sapphire jewels in solid gold settings and adjusted to temperature, isochronism and 5 positions.

No. 8614 Open face style only, lever setting $43.35
(Not made in Hunting style)

GENTLEMEN'S 16 SIZE WATCH WORKS OR MOVEMENTS

Stem Winding, Pendant and Lever Setting

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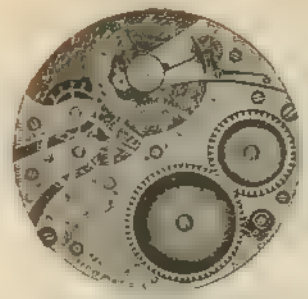
16 SIZE WALTHAM ROYAL—17 JEWEL NICKEL MOVEMENT

17 jewels in settings, adjusted to temperature and 3 positions, compensating balance, meantime screws, patent Breguet hairspring, hardened and tempered in form, patent detachable lever safety, exposed pallets, red gold cap jewels, micrometric regulator, tempered steel safety barrel exposed winding wheels.
No. 8615 Hunting style, pendant set....$44 40
No. 8616 Open face style, pendant set.... 42 40

16 SIZE ILLINOIS BUNN—17 JEWEL NICKEL MOVEMENT

17 ruby and sapphire jewels, gold settings, adjusted to temperature, 5 positions, isochronism, compensating balance, gold screws including timing screws, double roller, gold train, steel escape wheel, double sunk dial.
No. 8617 Hunting style, lever set.....$46 80
No. 8618 Open face style, lever set.....



16 SIZE DUEBER-HAMPDEN—21 JEWEL NICKEL MOVEMENT

Bridge model, 21 extra fine ruby and sapphire jewels in solid gold settings, sapphire roller jewels and pallet stones, steel escape wheel, round arm polished center wheel, patent center pinion escapement with conical pivots cap jeweled, patent micrometric regulator, Breguet hairspring, new model stud, compensation balance with gold screws and meantime screws, accurately adjusted to temperature, isochronism and 5 positions, double sunk dial, bright bevel head screws, elegantly engraved and damaskeened, gold ring, polished steel work and double roller escapement.
No. 8619 Hunting style, lever set $48
No. 8620 Open face style lever set.....

William McKinley Grade Hunting or Open face style or nameless No. 95 Hunting style and nameless No. 105 Open face style.

16 SIZE ILLINOIS BUNN—19 JEWEL NICKEL MOVEMENT

19 ruby and sapphire jewels, gold settings, adjusted to temperature, 5 positions and isochronism, compensating balance, gold screws including timing screws, double roller, gold train, steel escape wheel, Illinois jeweled barrel, double sunk dial.
No. 8621 Hunting style, lever set.....$53 90
No. 8622 Open face style, lever set..... 53 90

Movements shown on this page are all high grade Railroad Watches and will pass Railway Inspection

16 SIZE ELGIN B. W. RAYMOND—19 JEWEL NICKEL MOVEMENT

Lever setting, for railroad service, pendant winding, 19 ruby and sapphire jewels, gold jewel settings, barrel arbor pivots running in jewels, double roller escapement, steel escape wheel, exposed sapphire pallet stones, compensating balance, Breguet hairspring, with micrometric regulator, adjusted to temperature, isochronism, 5 positions, safety barrel, with spring box rigidly mounted on bridge, exposed winding wheels, patent recoiling click and self-locking setting device, dust ring, double sunk glass enameled dial, engraving inlaid with gold, plates damaskeened and finely finished.
No. 8623 Hunting style, lever set..... $55 20
No. 8624 Open face style, lever set 55.20

16 SIZE DUEBER-HAMPDEN—23 JEWEL NICKEL MOVEMENT

No. 91 is Hunting style.
No. 104 is Open Face style.

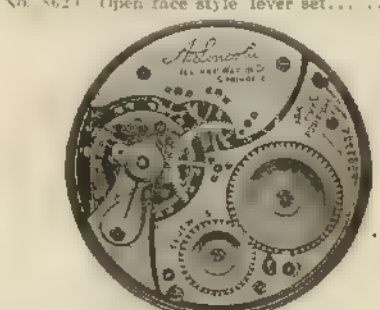
Bridge model 23 extra fine ruby and sapphire jewels in solid gold settings, sapphire roller jewels and pallet stones, steel escape wheel, round arm polished train wheels, patent safety barrel No. 111476 with main wheel arbor pivots revolving in jewels patent center pinion escape pin on and pallet arbor conical pivots jeweled, patent micrometric regulator, Breguet hairspring, new model stud, compensation balance with gold screws and meantime screws, accurately adjusted to temperature, isochronism and 5 positions, double sunk glass enamel dial with red margin [illegible], highly polished [illegible] "Hampden" mainspring [illegible] double roller escapement.
No. 8631 Hunting style, lever set. [illegible]
No. 8632 Open face style, lever set [illegible]

16 SIZE ELGIN FATHER TIME—21 JEWEL NICKEL MOVEMENT

Lever setting, for railroad service, pendant winding, 21 ruby and sapphire jewels, gold jewel settings, double roller escapement, steel escape wheel, exposed sapphire pallet stones, pallet arbor cone-pivoted and cap-jeweled, compensating balance, Breguet hairspring, with micrometric regulator, adjusted to temperature, isochronism, 5 positions, safety barrel, with spring box rigidly mounted on bridge, exposed winding wheels, patent recoiling click and self-locking setting device, dust ring, double sunk glass enamel dial, engraving inlaid with gold, plates beautifully damaskeened and finely finished.
No. 8627 Hunting style, lever set $62 60
No. 8628 Open face style, lever set 62.60

16 SIZE ILLINOIS BUNN SPECIAL—21 JEWEL NICKEL MOVEMENT

21 ruby and sapphire jewels, gold settings, adjusted to temperature, 6 positions and isochronism, compensating balance gold screws including timing screws, double roller, gold train steel escape wheel, double sunk dial.
No. 8629 Hunting style, lever set.....$63 85
No. 8630 Open face style, lever set..... 63 85



16 SIZE ILLINOIS A. LINCOLN—21 JEWEL NICKEL MOVEMENT

21 ruby and sapphire jewels, gold settings, adjusted to temperature, 5 positions and isochronism, compensating balance with timing screws, double roller, steel escape wheel, gold center wheel, Breguet hairspring, patent regulator, double sunk dial.
No. 8625 Hunting style, lever set.... $ [illegible]
No. 8626 Open face style, lever set....

GENTLEMEN'S 16 SIZE WATCH WORKS OR MOVEMENTS

Stem Winding, Pendant and Lever Setting

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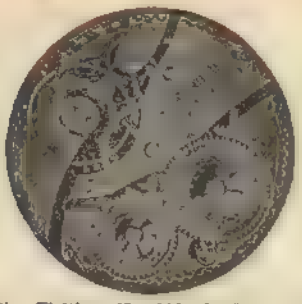

16 Size Waltham No. 645—21 Jewel Nickel Movement

21 fine ruby and sapphire jewels, settings, adjusted to temperature, isochronism and five positions, compensating balance, patent Breguet hair spring, hardened and tempered in form double roller escapement, sapphire jewel pin permanently driven into the roller, exposed sapphire pallets, steel escape wheel patent micrometric regulator, tempered steel safety barrel, jeweled main wheel bearings, exposed winding wheels, double sunk dial

No. 8638 Open face style only, lever set.....$66 40

(This movement not made in Hunting style.)

16 Size Waltham, Riverside—19 Jewel Nickel Movement

19 fine ruby and sapphire jewels, raised gold settings adjusted to temperature and five positions compensating balance meantime screws, patent Breguet hairspring, hardened and tempered in form, patent detachable balance staff double roller escapement, exposed sapphire pallets, steel escape wheel patent micrometric regulator, red gold center wheel tempered steel safety barrel, exposed winding wheels, double sunk dial

No. 8634	Hunting style, pendant set ..	$68 05
No. 8635	Open face style, pendant set..	68 05
No. 8636	Open face style lever set ...	68 05

16 Size Waltham, Crescent St. 21 Jewel Nickel Movement

21 fine ruby and sapphire jewels, raised gold settings, adjusted to temperature, isochronism and five positions, compensating balance, meantime screws, patent Breguet hairspring, hardened and tempered in form patent detachable balance staff, double roller escapement, sapphire jewel pin permanently driven into the roller, exposed sapphire pallets, steel escape wheel, patent micrometric regulator, tempered steel safety barrel, jeweled main wheel bearings exposed winding wheels, double sunk dial

No. 8637	Hunting style, pendant set ..	$76 20
No. 8638	Open face style, [illegible] ...	[illegible] 50
No. 8639	Open face style [illegible] set ...	[illegible] 90

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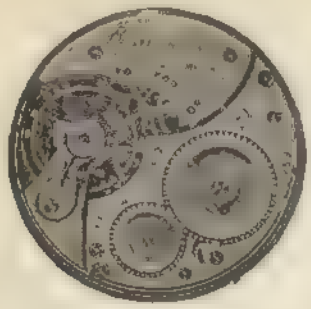


16 Size Illinois—Bunn Special—23 Jewel Nickel Movement

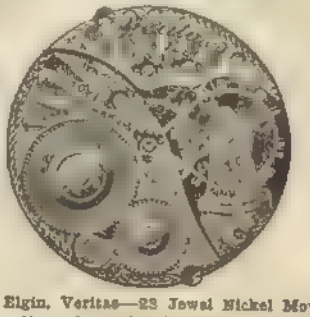
23 ruby and sapphire jewels, gold setting, adjusted to temperature, 6 positions [illegible] compensating balance, gold screws [illegible] timing screws, double roller gold train [illegible] wheel, Illinois jeweled barrel, double sunk dial

No. 8640	Hunting style, lever set	$73 75
No. 8641	Open face style, lever set.	73 75

16 Size Illinois, Sangamo Special—21 Jewel Nickel Movement

21 extra quality diamond, ruby and sapphire jewels, gold settings, adjusted to temperature, six positions and isochronism, compensating balance, gold screws, including timing screws, double roller steel escape wheel, gold train Breguet hairspring, patent regulator, double sunk dial

No. 8642	Hunting style, lever set	$73 75
No. 8643	Open face style, lever set	73 75

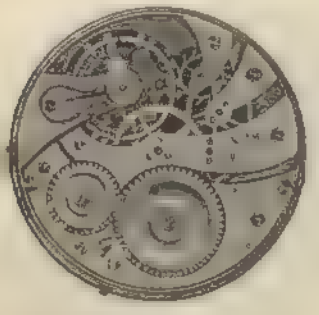


16 Size Elgin, Veritas—23 Jewel Nickel Movement

Lever setting for railroad service, pendant winding, 23 ruby and sapphire jewels, gold jewel settings, barrel arbor pivot-running in jewels, double roller escapement [illegible] exposed sapphire pallet stones [illegible] roller and cap jewel and cap jewel escape [illegible] roller and cap jewel [illegible] mounting, balance [illegible] hairspring with micrometric regulator [illegible] adjusted to [illegible] temperature, so hereby [illegible] positions safety Barrel with spring [illegible] exposed winding wheels [illegible] recoiling click and self locking setting device, dust ring, double [illegible] glass enamel dial engraving inlaid with gold [illegible] beautifully damaskeened, closely timed and finely finished throughout

No. 8644 Open face style only lever set... $82 25

(This movement not made in Hunting style.)



16 Size Illinois, Sangamo Special—23 Jewel Nickel Movement

[illegible] quality diamond, ruby and sapphire jewels, gold settings, adjusted to temperature, six positions and isochronism, compensating balance, gold screws, including timing screws, double roller steel escape wheel gold train Breguet hairspring patent regulator, Illinois jeweled barrel, double sunk dial

No. 8645	Hunting style lever set	[illegible] 15
No. 8646	Open face style, lever set	[illegible]

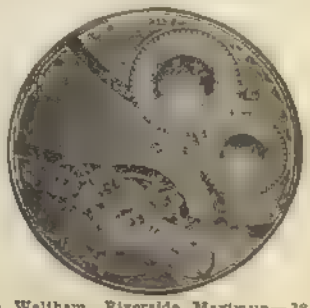
16 Size Waltham, Vanguard—19 Jewel Nickel Movement

19 diamond, fine ruby and sapphire jewels, raised gold settings adjusted to [illegible] and five positions, compensating [illegible] screws patent Breguet [illegible] hairspring, hardened and tempered in form, patent [illegible] detachable balance staff, both balance pivots running on diamonds, double roller escapement, sapphire jewel pin permanently driven into the roller exposed sapphire pallets, steel escape wheel tempered steel safety barrel, jeweled main wheel bearings patent micrometric regulator exposed winding wheels, elaborately finished nickel plates with gold lettering, steel parts chamfered, double sunk dial

No. 8647	Hunting style pendant set	$74 70
No. 8648	Open face style, pendant [illegible]	[illegible] 70
No. 8649	Open face style, lever set.....	74 70

16 Size Waltham, Vanguard—23 Jewel Nickel Movement

No. 8650	Hunting style, pendant set...	$86 55
No. [illegible]	Open face style, pendant set ..	86 55
No. [illegible]	Open face style, lever set.....	86 55



16 Size Waltham, Riverside Maximus—23 Jewel Nickel Movement

23 diamond, fine ruby and sapphire jewels, 2 [illegible] diamond caps, raised gold settings, accurately [illegible] to temperature, isochronism and five positions [illegible] carefully timed compensating balance, [illegible] screws patent Breguet hairspring hardened [illegible] and tempered in form, patent detachable balance staff [illegible] balance pivots running on diamonds [illegible] escapement, sapphire jewel pin [illegible] into the roller, exposed sapphire pallets, steel escape wheel, gold train tempered steel safety barrel, jeweled main wheel bearing, patent micrometric regulator, exposed winding wheels, steel parts chamfered, fine glass hand painted dial of most modern and artistic design

No. 8653	Hunting style, pendant set.....	$191 50
No. 8654	Open face style, pendant set....	191 50
No. [illegible]	Open face style, lever set	191 50

GENTLEMEN'S 12 SIZE WATCH WORKS OR MOVEMENTS

Stem Winding and Stem Setting

We fit all Cases to Movements and regulate Watches (no charge) before shipping

Prices quoted on this page are for the Works or Movements only. For Cases to fit any Movement shown on this page, see pages 21 to 29 (or Nos. 8329 to 8520), inclusive. **Add the price of the Case wanted to that of the Movement desired, which will give you the price of the complete Watch. When ordering Watches simple quote the number of Movement and Case wanted.**

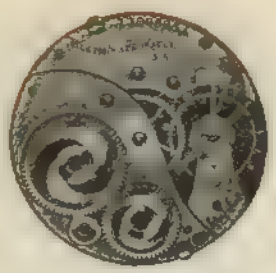
12 SIZE NEW YORK STANDARD—7 JEWEL NICKEL MOVEMENT

No. 170 is Hunting style.
No. 171 is Open Face style.

7 jewels, nickel damaskeened, train bearings in metal settings, quick train, compensation bal[ance] [with] gold hairspring, white enamel dial.

No. 8656 Hunting style, pendant set.....$5 50
No. 8657 Open face style, pendant set.... 5.50

ORDERS FILLED SAME DAY RECEIVED NO DELAY

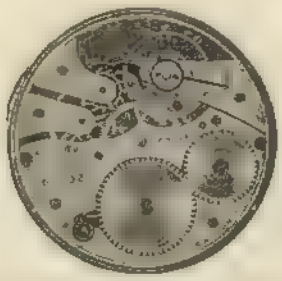


12 SIZE ELGIN—7 JEWEL NICKEL MOVEMENT

No. 301 is Hunting style.
No. 303 is Open Face style.

Pendant winding and setting, 7 jewels (settings), ruby balance jewels, exposed pallet stones, cut expansion balance, Breguet hairspring, with polished regulator, exposed winding wheels, patent recoiling click and self-locking setting device, dust ring, sunk-second dial plates damaskeened.

No. 8661 Hunting style, pendant set....$14.60
No. 8662 Open face style, pendant set.. 14.60



12 SIZE DUEBER HAMPDEN—7 JEWEL NICKEL MOVEMENT

No. 300 is Hunting style.
No. 302 is Open Face style.

Nickel, bridge model, 7 jewels, patent safety center pinion, exposed winding wheels, exposed balance with meantime screws, Breguet hairspring, Arabic or Roman dial, all pivot holes not jeweled bushed with anti-friction metal.

No. 8663 Hunting style, pendant set....$14 95
No. 8664 Open face style, pendant set.. 14 95

12 SIZE WALTHAM NO. 210—7 JEWEL NICKEL MOVEMENT

7 jewels, cut expansion balance, meantime screws, patent detachable balance staff, patent Breguet hairspring, hardened and tempered in form, exposed pallets, tempered steel safety barrel, exposed winding wheels.

No. 8665 Hunting style, pendant set....$16 60
No. 8666 Open face style, pendant set.. 16 60

12 SIZE ELGIN—15 JEWEL NICKEL MOVEMENT

No. 314 is Hunting style.
No. 315 is Open Face style.

Pendant winding and setting, 15 jewels (settings), ruby balance jewels, exposed pallet stones, cut expansion balance, Breguet hairspring, with micrometric regulator, exposed winding wheels, patent recoiling click and self-locking and setting device, dust ring, sunk-second dial, plates damaskeened.

No. 8669 Hunting style, pendant set.....$22 00
No. 8670 Open Face style, pendant set..... 22.00

12 SIZE WALTHAM "NO. 220"—15 JEWEL NICKEL MOVEMENT

15 jewels in settings, cut expansion balance, meantime screws, patent detachable balance staff, patent Breguet hairspring, hardened and tempered in form, exposed pallets, patent micrometric regulator, tempered steel safety barrel, exposed winding wheels.

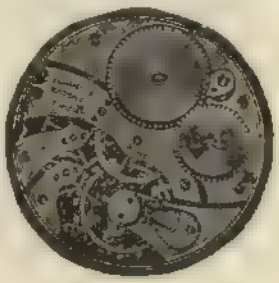
No. 8667 Hunting style, pendant set....$24 50
No. 8668 Open face style, pendant set.. 24 50

12 SIZE DUEBER HAMPDEN—15 JEWEL NICKEL MOVEMENT

No. 304 is Hunting style.
No. 306 is Open Face style.

Nickel, bridge model, 15 ruby jewels in composition settings, patent safety center pinion, exposed balance with meantime screws, Breguet hairspring, patent regulator, exposed winding wheels, bright flat screws, engraved and damaskeened, gold lettering, Arabic or Roman dial with marginal figures.

No. 8671 Hunting style, pendant set....$20.55
No. 8672 Open face style, pendant set.. 20.55



12 SIZE ILLINOIS NO. 403—15 JEWEL NICKEL MOVEMENT

15 jewels, polished settings, compensating balance, Breguet hairspring, safety screw center pinion, safety recoil click.

No. 8673 Hunting style, pendant set....$21 00
No. 8674 Open face style, pendant set.. 21.00

12 SIZE DUEBER HAMPDEN—17 JEWEL NICKEL MOVEMENT

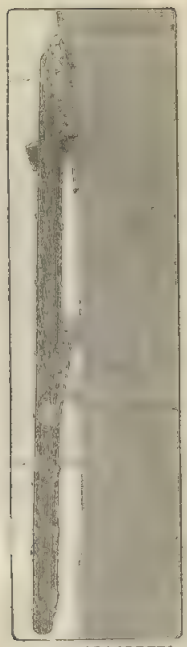
No. 307 is Open Face style.

17 jewels, open face only, pendant settings, ruby and sapphire jewels in composition settings, steel escape wheel, patent safety center pinion, sunk-second dial, enamel or gilded.

No. 8675 Open face style only, pendant set (not made in Hunting style).....$24 00

✣MILBRADT ROLLING STORE LADDERS

MADE TO ORDER ONLY



STRAIGHT LADDERS

For Track Fastened to Shelving Near the Top; this Ladder has Long Swinging Arms Attached and is for Use on Shelving with a Very Narrow or no Base Shelf, the Arms Holding the Lower End Out the Proper Distance for Convenient Climbing; the Arms are Made from 19 to 20 inches Long, and Have Rubber Rollers at the Ends which Run Against the Ledge; If Ladder is to Hang Out Less than 10 inches, Stationary Arms are Used, Same as on the No. 1 Ladder on Previous Page; when not in Use, the Swinging Arms Fold Out of the Way; when Ladder is to be Used, the Arms Swing into Place Automatically; Runs on Round Steel Track

Each

No. 4—Width 17¾ inches; 3 inch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight 50 lbs. . **$24.00**

BENT LADDERS

For Flat Hardwood Track, which is Screwed on Top of Original Low Shelving which has Been Extended to the Ceiling; Fork Shaped Irons, with Rubber Rollers to run Against Edge of Wide Base Shelf, are Attached Near Lower End of Ladder; Irons are Made Any Length Necessary to Hold Lower End of Ladder Out the Proper Distance for Convenient Climbing; the Hardwood Track is Dry Hard Maple and the Ladder Runs Noiselessly and Easily on it; the Track will Last a Life Time.

Each

No. 10—Width 17¼ inches; 3 inch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight 50 lbs. . **$26.00**

BENT LADDERS

For Flat Hardwood Track, which is Screwed on Top of Original Low Shelving which Has Been Extended to the Ceiling; it has Cushion Tired Wheels at the Lower End which Run on the Floor; no Track is Used on the Floor; the Wheels at the Top Slide up and Down to Allow Ladder to Adjust Itself to Uneven Floors; the Lower End of Ladder May be Set in Close to Shelving, Out of the Way, when Not in Use; Can be Used on Shelving, With or Without a Base Shelf.

Each

No. 13—Width 17¼ inches; 3 inch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight 50 lbs. . **$26.00**

For Track, Brackets, etc., See Page 3121

To Order Ladder No. 4—Give Exact Height from Floor to Top of Base Shelf, the Exact Width or Projection of Base Shelf the Exact Height from Top of Base Shelf to the Top of Shelf to which Track is to be Fastened; Track Should be Fastened to a Shelf between Two to Three Feet Down from the Top

To Order Ladders Nos. 10 and 13—Give Exact Height from the Floor to Top of Base Shelf, the Exact Width or Projection of Base Shelf, and the Exact Height from Top of Base Shelf to Top of Shelving or Cornice, on Top of which Track is to be Fastened; also State how far Cornice or Shelving, on Top of which Track is to be Fastened Projects Out Over Lower Part of Shelving

Items Marked ✣Not Carried in Stock; Made to Order Only and Shipped from St. Louis

ROLLING STORE LADDERS

✠MILBRADT

MADE TO ORDER ONLY

Made in Various Styles to Fit All Kinds of Shelving; Shipped Complete, Ready to Install

Made of Hardwood Lumber, Highly Finished, Steps Dadoed into Solid Side Stock; Top and Bottom Hangers, Brackets and Fixtures of Malleable Iron, Nicely Finished; These Ladders Take up Very Little Space and Run Without Noise or Friction; a Slight Push Will Propel Ladder the Length of an Ordinary Store; an Extra Wide Shelf at the Top of Each Ladder is Very Convenient in Handling Stock.

BENT LADDERS

For Track Fastened to Shelving Near the Top; Short, Fork Shaped Irons, with Rubber Rollers, Run Against the Edge of Wide Base Shelf; Runs on Round Steel Track.

Each

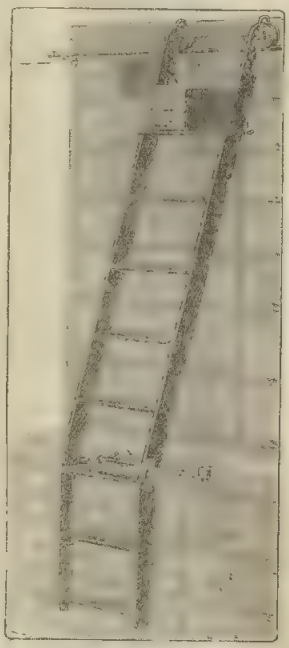
No. 1—Width 17¼ inches; 3 inch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight 50 lbs..... **$26 00**

BENT LADDERS

For Shelving Which is Not Substantial; Weight of Ladder and Operator Rests on the Floor; No Track is Used on Floor; Top Adjustment Allows for Uneven or Sloping Floor; Floor Rollers are Cushion Tired; Runs on Special Hardwood Track, Only, to Guide Ladder.

Each

No. 2—Width 17¼ inches; 3 inch Side Pieces; 3¼ inch Steps, 9 inch Top Shelf; Average Shipping Weight 50 lbs..... **$26.00**



BENT LADDERS

Runs on Track Fastened to Shelving Near the Top; Long Swinging Arms, with Rubber Rollers, Run Against the Edge of a Narrow Base Shelf; Arms are Made Any Length Necessary to Hold Ladder Out Proper Distance; Runs on Round Steel Track.

Each

No. 3—Width 17¼ inches; 3 inch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Average Shipping Weight 50 lbs..... **$26 00**

For Track, Brackets, etc., See Page 3121

TO ORDER ABOVE LADDERS

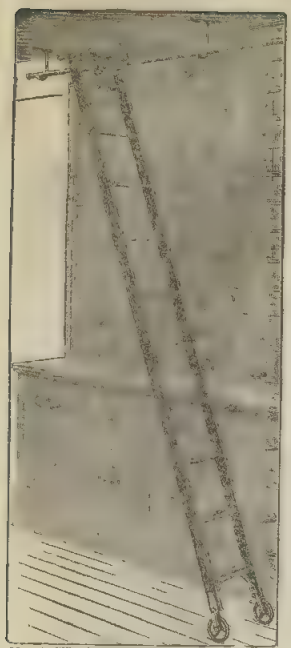
Give Height from Floor to Top of Base Shelf, Width or Projection of Base Shelf from Front Edge of Uprights, and Height from Top of Base Shelf to Top of Shelf to Which Track is to be Fastened; the Track Should be Fastened to a Shelf Between Two to Three Feet from Top of Shelving; When Ordering Ladder No. 2, Where Floor Slopes, State How Much it Slopes and State at Which End of Shelving Measurements Were Taken; if Ladders are Ordered for Odd or Irregular Shelving, it Will Greatly Assist if a Rough Sketch or End View of Shelving is Sent Us.

Items Marked ✠ Not Carried in Stock, Made to Order Only and Shipped from St. Louis

*ROLLING STORE LADDERS AND TRACK

MILBRADT

MADE TO ORDER ONLY



TROLLEY OR CEILING LADDERS

For Steel Track Fastened to the Ceiling; Fiber Filled Wheels Run Noiselessly on the Steel Track; Cushion Tired Wheels at the Bottom Run on the Floor; the Track is Made of Round Tubing and Rests in Malleable Iron Brackets, which are Screwed to the Ceiling About 4 feet Apart, or so the Lag Screws will Enter the Joists; if the Ceiling is Plastered, a Board 7 inches Wide Should First be Nailed or Screwed to Ceiling and the Brackets Screwed to the Board; in Every Instance, the Lag Screws Must Enter the Joists; Ceiling Board Not Furnished, Unless Specially Ordered.

This Ladder is Strongly Made and with Sufficient Incline to Make Easy Climbing; it is Especially Adapted for Hardware Stores, Wholesale Houses or Other Places where Heavy Goods are Handled; it Runs Independently of Shelving and is the Most Suitable to Use when Shelving is Not so Arranged that Ladders Can be Conveniently Applied to it.

Each

No. 15—Width 14 inches; 4 inch Side Pieces; 5 inch Steps; Complete with Fixtures; Average Shipping Weight 60 lbs. **$24 60**

Per Foot

No. 15ST—Steel Trolley Track, for Above Ladder Including Brackets and Lag Screws; Weight per Foot 1½ lbs. . . **$0 50**

No. 15CB Ceiling Board, 7 inches Wide, for Use on Plastered Ceilings, when Above Ladders, Weighs per Foot 1½ lbs. **$0 20**

To Order Above Ladder—Give Exact Height from Floor to Ceiling and State Exact Length of Each Run of Steel Track Wanted.

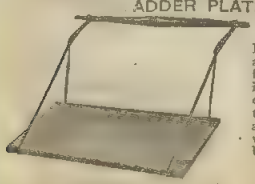
TRACK BRACKETS

Used to Hold up Steel Track which is Attached to Shelving; they are Screwed and Bolted on Top of Shelf; Used in Connection with Nos. 7 or 8 Brackets Shown Below, on Shelving where Uprights to which Brackets can be Fastened are Too Far Apart to Make Track Strong Enough.

Each

No. 9—Malleable Iron; Weight 2¼ lbs. **$0 00**

LADDER PLATFORMS



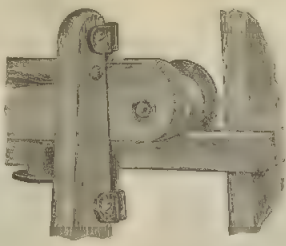
For Use where Stock is to be Put Up, Taken Down or Rearranged. It is Large Enough for User to Stand on Conveniently and Allows the Free Use of Both Hands; it can be Attached at any Height Desired and will be Found Very Handy wherever Rolling Ladders are Used, it is Absolutely Safe.

Each

No. MP—Solid Oak Platform; Nickel Plated Hangers; Weight Each 9 lbs. **$4.00**

Loose

LADDER TRACK



SPECIAL WOOD TRACK

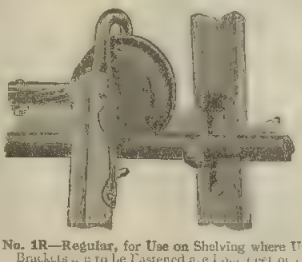
Hard Dry Maple; Finished to Match Ladder; Adapted for Ladders which Run on the Floor; Requires no Special Shelf or Arrangement.

Per Foot

No. 2WT—For Ladder **No. 2**; Weight per Foot 2 lbs. **$0 30**

STEEL TRACK

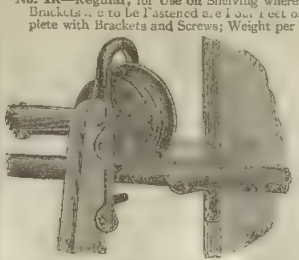
Made of Round Steel Tubing; For Ladders Nos. 1, 3, 4, Shown on Previous Pages.



Showing Face Bracket No. 7; For Uprights 2 inches or Wider.

Per Foot

No. 1R—Regular, for Use on Shelving where Uprights to which Brackets are to be Fastened are Four Feet or Less Apart, Complete with Brackets and Screws; Weight per Foot 1 lb. **$0 50**



Showing Upright Bracket No. 8; Specially for Uprights Less than 2 inches Wide.

Per Foot

No. 1H—Extra Strong; for Use on Shelving where Uprights are More than Four Feet Apart; Can be Used with Brackets 5½ feet Apart; when Uprights are More than 5½ feet Apart it is Necessary to also Use No. 9 Bracket Shown Opposite, between Uprights; Weight per Foot 1½ lbs. **$0 40**

HOW TO ORDER STEEL TRACK

The Longest Length of Steel Track Made is 18 feet; if Track is to be Longer than 18 feet, Two or More Lengths are Joined Together; Furnished in Such Lengths that All Joints will Make at Centers of Uprights or Partitions in Shelving, which will Bring the Joints Over Brackets. The Different Lengths are Screwed Together to Make a Continuous, Smooth Track for the Entire Line of Shelving.

First—Give the Entire Length of Each Line of Shelving.

Second—Measure from Outside of One End of Shelving to Center of an Upright or Partition Nearest to, but Inside of, Each End from Starting Point; Give this Measurement, then Begin from the Center of the Last Upright or Partition Measured to, and again Measure to the Center of Next Upright or Partition Nearest to, but Inside of, Last Starting Point, and so Continue to Measure for as Many Lengths as are Required.

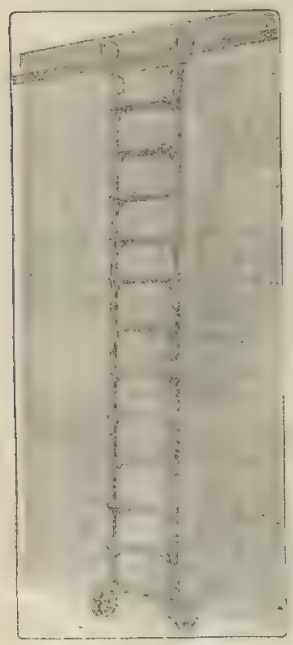
ROLLING STORE LADDERS

✠WILCOX

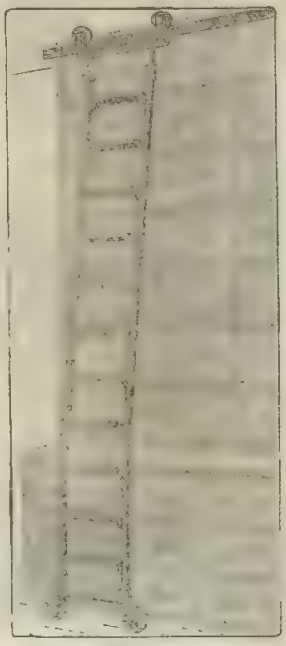
MADE TO ORDER ONLY

Steel Tubing Sides—Wood Steps

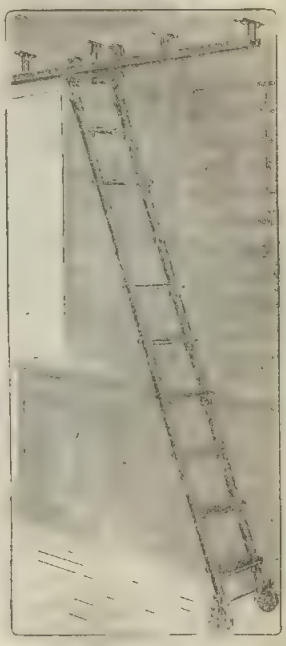
Sides are Made of Steel Tubing; Steps are Made of Oak, 14 inches Long, and are Furnished with Adjustable Fixtures Attached, which Fit into the Side Tubing. Steps are Spaced 12 inches Apart. Any Length up to 30 Feet, if Complete Stock of Any Length Wanted; Steps May Be Spaced Any Distance Apart. Set of Any Angle Desired. Fixtures, Track and Ladder are Interchangeable for Side or Ceiling Attachment. Top Fixture is Adjustable Vertically. Allow for Unevenness in Floor. Easily Operated, Absolutely Noiseless; Use Single Track for Side Ladders, Double Track for Ceiling Ladders.



STRAIGHT—SIDE



BENT—SIDE



STRAIGHT—CEILING

Each	Each	Each
✠ No. 8529 -Straight Steel, with Oak Steps, Complete with Fixtures $18 00	✠ No. 8529 -Bent Steel, with Oak Steps, Complete with Fixtures $20 00	✠ No. 529 -Steel, with Oak Steps, Complete with Fixtures $20 00

Average Shipping Weight Complete 60 lbs.

	Per Foot
✠ No. 529WT—Single Wood Track, for Side Ladders; Weight per Foot ½ lb...	$0.30
✠ No. 529CT—Double Wood Track, for Ceiling Ladders; Weight per Foot 1 lb	30

To Order Straight Ladders

Give Distance from Floor to Top of Ledge, where Track is Secured.

To Order Bent Ladders

Give Distance from Floor to Top of Ledge, Distance Ledge Projects Beyond where Track is Secured, and Distance from Top of Ledge to Point where Track is Secured.

To Order Ceiling Ladders

Give Distance from Floor to Ceiling.

Items Marked ✠ Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory, Aurora, Ill.

ROLLING STORE LADDERS

✠MILBRADT

MADE TO ORDER ONLY

Made in Various Styles to Fit All Kinds of Shelving; Shipped Complete, Ready to Install

Made of Hardwood Lumber, Highly Finished, Steps Dadoed into Solid Side Stock; Top and Bottom Hangers, Brackets and Fixtures of Malleable Iron, Nicely Finished; These Ladders Take up Very Little Space and Run Without Noise or Friction; a Slight Push Will Propel Ladder the Length of an Ordinary Store; an Extra Wide Shelf at the Top of Each Ladder is Very Convenient in Handling Stock.

BENT LADDERS

For Track Fastened to Shelving Near the Top; Short, Fork Shaped Irons, with Rubber Rollers, Run Against the Edge of Wide Base Shelf; Runs on Round Steel Track.

Each

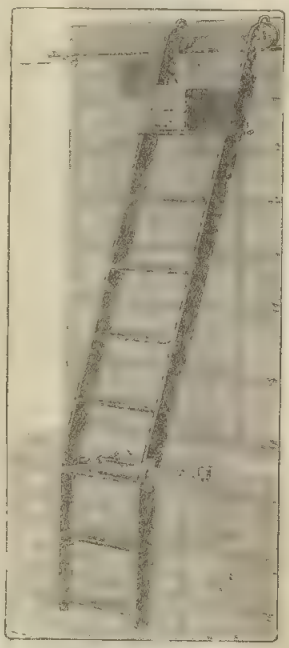
No. 1—Width 17¼ inches; 3 inch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight 50 lbs..... **$26 00**

BENT LADDERS

For Shelving Which is Not Substantial; Weight of Ladder and Operator Rests on the Floor; No Track is Used on Floor; Top Adjustment Allows for Uneven or Sloping Floor; Floor Rollers are Cushion Tired; Runs on Special Hardwood Track, Only, to Guide Ladder.

Each

No. 2—Width 17¼ inches; 3 inch Side Pieces; 3¼ inch Steps, 9 inch Top Shelf; Average Shipping Weight 50 lbs..... **$26.00**



BENT LADDERS

Runs on Track Fastened to Shelving Near the Top; Long Swinging Arms, with Rubber Rollers, Run Against the Edge of a Narrow Base Shelf; Arms are Made Any Length Necessary to Hold Ladder Out Proper Distance; Runs on Round Steel Track.

Each

No. 3—Width 17¼ inches; 3 inch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Average Shipping Weight 50 lbs..... **$26 00**

For Track, Brackets, etc., See Page 3121

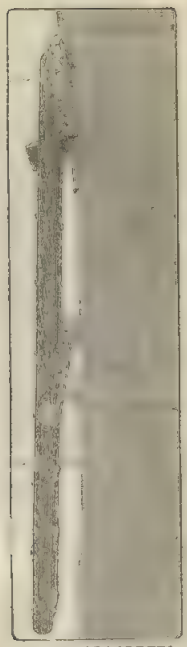
TO ORDER ABOVE LADDERS

Give Height from Floor to Top of Base Shelf, Width or Projection of Base Shelf from Front Edge of Uprights, and Height from Top of Base Shelf to Top of Shelf to Which Track is to be Fastened; the Track Should be Fastened to a Shelf Between Two to Three Feet from Top of Shelving; When Ordering Ladder No. 2, Where Floor Slopes, State How Much it Slopes and State at Which End of Shelving Measurements Were Taken; if Ladders are Ordered for Odd or Irregular Shelving, it Will Greatly Assist if a Rough Sketch or End View of Shelving is Sent Us.

Items Marked ✠ Not Carried in Stock, Made to Order Only and Shipped from St. Louis

✣MILBRADT ROLLING STORE LADDERS

MADE TO ORDER ONLY



STRAIGHT LADDERS

For Track Fastened to Shelving Near the Top; this Ladder has Long Swinging Arms Attached and is for Use on Shelving with a Very Narrow or no Base Shelf, the Arms Holding the Lower End Out the Proper Distance for Convenient Climbing; the Arms are Made from 19 to 20 inches Long, and Have Rubber Rollers at the Ends which Run Against the Ledge; If Ladder is to Hang Out Less than 10 inches, Stationary Arms are Used, Same as on the No. 1 Ladder on Previous Page; when not in Use, the Swinging Arms Fold Out of the Way; when Ladder is to be Used, the Arms Swing into Place Automatically; Runs on Round Steel Track

Each

No. 4—Width 17¾ inches; 3 inch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight 50 lbs. . **$24.00**

BENT LADDERS

For Flat Hardwood Track, which is Screwed on Top of Original Low Shelving which has Been Extended to the Ceiling; Fork Shaped Irons, with Rubber Rollers to run Against Edge of Wide Base Shelf, are Attached Near Lower End of Ladder; Irons are Made Any Length Necessary to Hold Lower End of Ladder Out the Proper Distance for Convenient Climbing; the Hardwood Track is Dry Hard Maple and the Ladder Runs Noiselessly and Easily on it; the Track will Last a Life Time.

Each

No. 10—Width 17¼ inches; 3 inch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight 50 lbs. . **$26.00**

BENT LADDERS

For Flat Hardwood Track, which is Screwed on Top of Original Low Shelving which Has Been Extended to the Ceiling; it has Cushion Tired Wheels at the Lower End which Run on the Floor; no Track is Used on the Floor; the Wheels at the Top Slide up and Down to Allow Ladder to Adjust Itself to Uneven Floors; the Lower End of Ladder May be Set in Close to Shelving, Out of the Way, when Not in Use; Can be Used on Shelving, With or Without a Base Shelf.

Each

No. 13—Width 17¼ inches; 3 inch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight 50 lbs. . **$26.00**

For Track, Brackets, etc., See Page 3121

To Order Ladder No. 4—Give Exact Height from Floor to Top of Base Shelf, the Exact Width or Projection of Base Shelf the Exact Height from Top of Base Shelf to the Top of Shelf to which Track is to be Fastened; Track Should be Fastened to a Shelf between Two to Three Feet Down from the Top

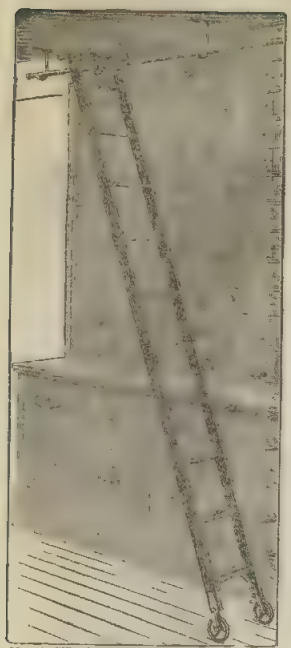
To Order Ladders Nos. 10 and 13—Give Exact Height from the Floor to Top of Base Shelf, the Exact Width or Projection of Base Shelf, and the Exact Height from Top of Base Shelf to Top of Shelving or Cornice, on Top of which Track is to be Fastened; also State how far Cornice or Shelving, on Top of which Track is to be Fastened Projects Out Over Lower Part of Shelving

Items Marked ✣Not Carried in Stock; Made to Order Only and Shipped from St. Louis

*ROLLING STORE LADDERS AND TRACK

MILBRADT

MADE TO ORDER ONLY



TROLLEY OR CEILING LADDERS

For Steel Track Fastened to the Ceiling; Fiber Filled Wheels Run Noiselessly on the Steel Track; Cushion Tired Wheels at the Bottom Run on the Floor; the Track is Made of Round Tubing and Rests in Malleable Iron Brackets, which are Screwed to the Ceiling About 4 feet Apart, or so the Lag Screws will Enter the Joists; if the Ceiling is Plastered, a Board 7 inches Wide Should First be Nailed or Screwed to Ceiling and the Brackets Screwed to the Board; in Every Instance, the Lag Screws Must Enter the Joists; Ceiling Board Not Furnished, Unless Specially Ordered.

This Ladder is Strongly Made and with Sufficient Incline to Make Easy Climbing; it is Especially Adapted for Hardware Stores, Wholesale Houses or Other Places where Heavy Goods are Handled; it Runs Independently of Shelving and is the Most Suitable to Use when Shelving is Not so Arranged that Ladders Can be Conveniently Applied to it.

Each

No. 15—Width 14 inches; 4 inch Side Pieces; 5 inch Steps; Complete with Fixtures; Average Shipping Weight 60 lbs. **$24 60**

Per Foot

No. 15ST—Steel Trolley Track, for Above Ladder Including Brackets and Lag Screws; Weight per Foot 1½ lbs. . . **$0 50**

No. 15CB Ceiling Board, 7 inches Wide, for Use on Plastered Ceilings, when Above Ladders, Weighs per Foot 1½ lbs. **$0 20**

To Order Above Ladder—Give Exact Height from Floor to Ceiling and State Exact Length of Each Run of Steel Track Wanted.

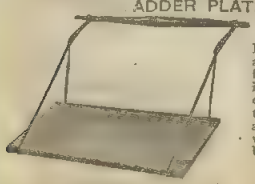
TRACK BRACKETS

Used to Hold up Steel Track which is Attached to Shelving; they are Screwed and Bolted on Top of Shelf; Used in Connection with Nos. 7 or 8 Brackets Shown Below, on Shelving where Uprights to which Brackets can be Fastened are Too Far Apart to Make Track Strong Enough.

Each

No. 9—Malleable Iron; Weight 2¼ lbs. **$0 00**

LADDER PLATFORMS



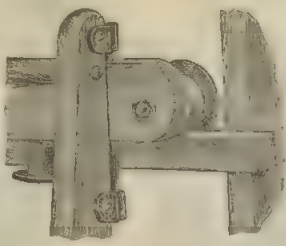
For Use where Stock is to be Put Up, Taken Down or Rearranged. It is Large Enough for User to Stand on Conveniently and Allows the Free Use of Both Hands; it can be Attached at any Height Desired and will be Found Very Handy wherever Rolling Ladders are Used, it is Absolutely Safe.

Each

No. MP—Solid Oak Platform; Nickel Plated Hangers; Weight Each 9 lbs. **$4.00**

Loose

LADDER TRACK



SPECIAL WOOD TRACK

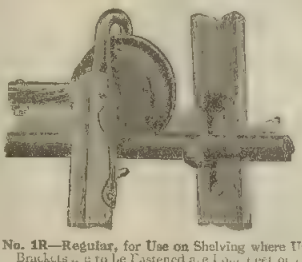
Hard Dry Maple; Finished to Match Ladder; Adapted for Ladders which Run on the Floor; Requires no Special Shelf or Arrangement.

Per Foot

No. 2WT—For Ladder **No. 2**; Weight per Foot 2 lbs. **$0 30**

STEEL TRACK

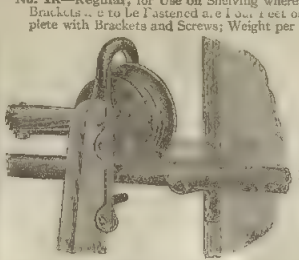
Made of Round Steel Tubing; For Ladders Nos. 1, 3, 4, Shown on Previous Pages.



Showing Face Bracket No. 7; For Uprights 2 inches or Wider.

Per Foot

No. 1R—Regular, for Use on Shelving where Uprights to which Brackets are to be Fastened are Four Feet or Less Apart, Complete with Brackets and Screws; Weight per Foot 1 lb. **$0 50**



Showing Upright Bracket No. 8; Specially for Uprights Less than 2 inches Wide.

Per Foot

No. 1H—Extra Strong; for Use on Shelving where Uprights are More than Four Feet Apart; Can be Used with Brackets 5½ feet Apart; when Uprights are More than 5½ feet Apart it is Necessary to also Use No. 9 Bracket Shown Opposite, between Uprights; Weight per Foot 1½ lbs. **$0 40**

HOW TO ORDER STEEL TRACK

The Longest Length of Steel Track Made is 18 feet; if Track is to be Longer than 18 feet, Two or More Lengths are Joined Together; Furnished in Such Lengths that All Joints will Make at Centers of Uprights or Partitions in Shelving, which will Bring the Joints Over Brackets. The Different Lengths are Screwed Together to Make a Continuous, Smooth Track for the Entire Line of Shelving.

First—Give the Entire Length of Each Line of Shelving.

Second—Measure from Outside of One End of Shelving to Center of an Upright or Partition Nearest to, but Inside of, Each End from Starting Point; Give this Measurement, then Begin from the Center of the Last Upright or Partition Measured to, and again Measure to the Center of Next Upright or Partition Nearest to, but Inside of, Last Starting Point, and so Continue to Measure for as Many Lengths as are Required.

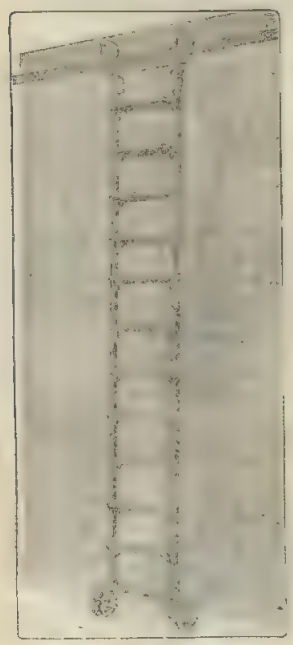
ROLLING STORE LADDERS

✠WILCOX

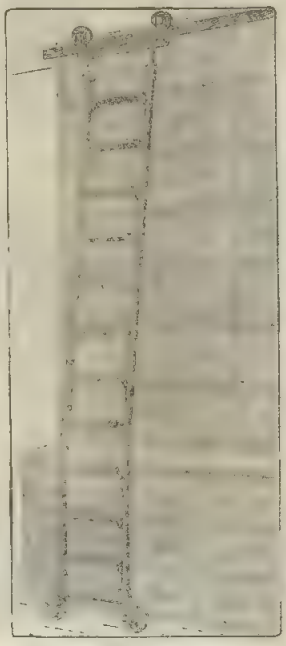
MADE TO ORDER ONLY

Steel Tubing Sides—Wood Steps

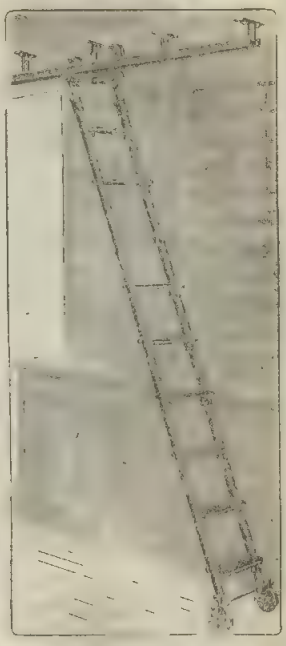
Sides are Made of Steel Tubing; Steps are Made of Oak, 14 inches Long, and are Furnished with Adjustable Fixtures Attached, which Fit into the Side Tubing. Steps are Spaced 12 inches Apart. Any Length up to 30 Feet, if Complete Stock of Any Length Wanted; Steps May Be Spaced Any Distance Apart. Set of Any Angle Desired. Fixtures, Track and Ladder are Interchangeable for Side or Ceiling Attachment. Top Fixture is Adjustable Vertically. Allow for Unevenness in Floor. Easily Operated, Absolutely Noiseless; Use Single Track for Side Ladders, Double Track for Ceiling Ladders.



STRAIGHT—SIDE



BENT—SIDE



STRAIGHT—CEILING

Each	Each	Each
✠ No. 8529 -Straight Steel, with Oak Steps, Complete with Fixtures $18 00	✠ No. 8529 -Bent Steel, with Oak Steps, Complete with Fixtures $20 00	✠ No. 529 -Steel, with Oak Steps, Complete with Fixtures $20 00

Average Shipping Weight Complete 60 lbs.

	Per Foot
✠ No. 529WT—Single Wood Track, for Side Ladders; Weight per Foot ½ lb...	$0.30
✠ No. 529CT—Double Wood Track, for Ceiling Ladders; Weight per Foot 1 lb	30

To Order Straight Ladders

Give Distance from Floor to Top of Ledge, where Track is Secured.

To Order Bent Ladders

Give Distance from Floor to Top of Ledge, Distance Ledge Projects Beyond where Track is Secured, and Distance from Top of Ledge to Point where Track is Secured.

To Order Ceiling Ladders

Give Distance from Floor to Ceiling.

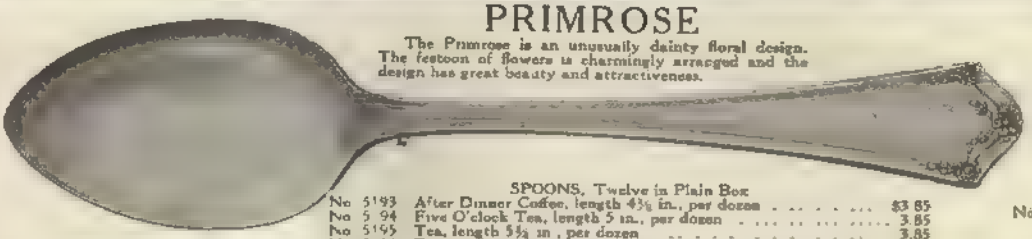
Items Marked ✠ Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory, Aurora, Ill.

ONEIDA COMMUNITY
PAR PLATE

PRIMROSE

The Primrose is an unusually dainty floral design. The festoon of flowers is charmingly arranged and the design has great beauty and attractiveness.

This Tableware is scientifically designed to give the greatest possible service for the money and while the price is moderate, the quality is excellent.



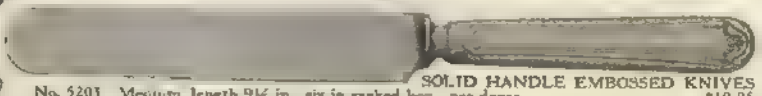
SPOONS, Twelve in Plain Box

No. 5193	After Dinner Coffee, length 4⅜ in., per dozen	$3.85
No. 5 94	Five O'clock Tea, length 5 in., per dozen	3.85
No. 5195	Tea, length 5⅓ in., per dozen	3.85
No. 5 96	Dessert, length 7 in., per dozen	6.95
No. 5197	Table, length 7⅞ in., per dozen	7.70

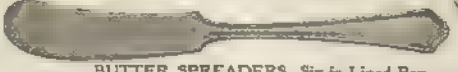
BABY FORK
One in Lined Box
No. 5200 Lgth. 5 in., each, $0.70

BABY SPOON
One in Lined Box
No. 5201 Lgth. 3½ in., each $0.70

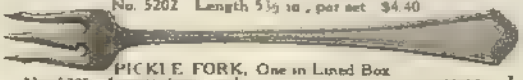
ORANGE SPOON, Six in Lined Box
No. 5198 Lgth. 5½ in., per set $3.30



SOLID HANDLE EMBOSSED KNIVES
No. 5203 Medium, length 9⅛ in., six in racked box., per dozen . $10.05
No. 5204 Dessert, length 8⅛ in., six in racked box, per dozen . 9.80

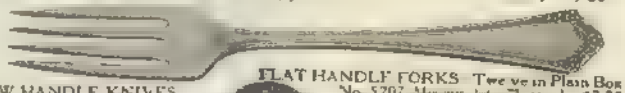


BUTTER SPREADERS, Six in Lined Box
No. 5202 Length 5⅛ in., per set $4.40

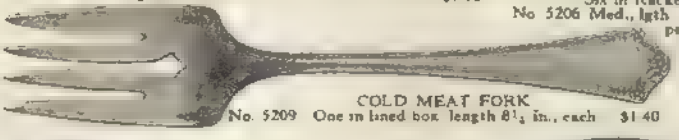


PICKLE FORK, One in Lined Box
No. 5205 Length 6 in., each . . $1.10

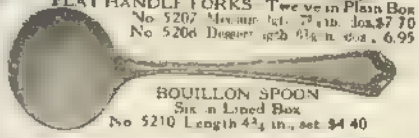
HOLLOW HANDLE KNIVES
Six in Racked Box
No. 5206 Med., lgth. 9¼ in., per dozen..$23.40



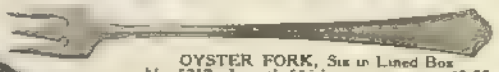
FLAT HANDLE FORKS, Twelve in Plain Box
No. 5207 Medium lgt. 7⅞ in. doz.$7.70
No. 5208 Dessert lgth. 6⅞ in. doz., 6.95



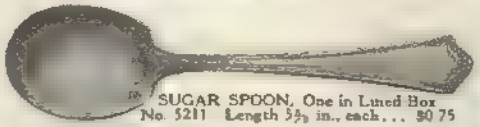
COLD MEAT FORK
No. 5209 One in lined box length 8¼ in., each $1.40



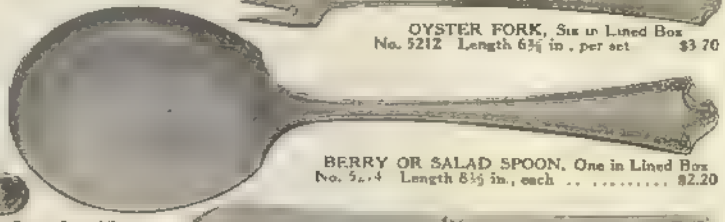
BOUILLON SPOON
Six in Lined Box
No. 5210 Length 4¾ in., set $4.40



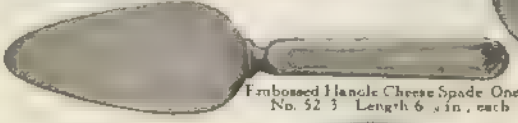
OYSTER FORK, Six in Lined Box
No. 5212 Length 6¾ in., per set $3.70



SUGAR SPOON, One in Lined Box
No. 5211 Length 5⅛ in., each... $0.75



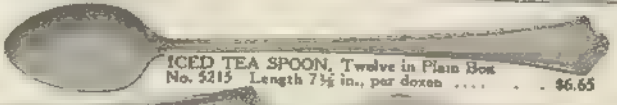
BERRY OR SALAD SPOON, One in Lined Box
No. 5214 Length 8⅛ in., each $2.20



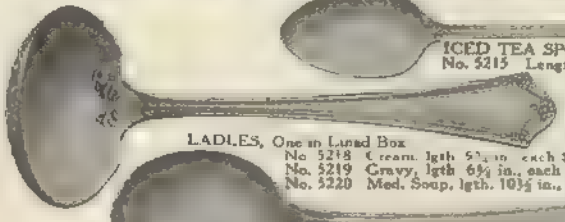
Embossed Handle Cheese Spade One in Lined Box
No. 52 3 Length 6 in., each $1.05

SOLID H. EMB. FRUIT KNIFE
Six in Racked Box
No. 5216 Lgth. 6½ in., per doz $8.40

SUGAR TONGS, One in Lined Box
Not illustrated)
No. 5217 Length 4 in., each....$1.65

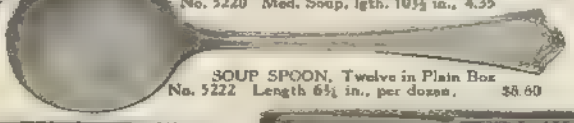


ICED TEA SPOON, Twelve in Plain Box
No. 5215 Length 7⅛ in., per dozen $6.65

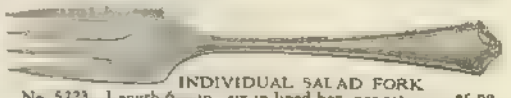


LADLES, One in Lined Box
No. 5218 Cream, lgth. 5¾ in., each $1.25
No. 5219 Gravy, lgth. 6½ in., each 1.65
No. 5220 Med. Soup, lgth. 10½ in., 4.35

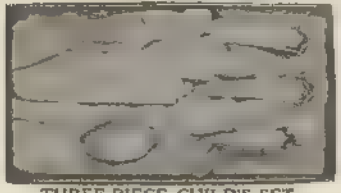
BUTTER KNIFE, One in Lined Box
No. 5221 Length 7⅛ in., each.. ... $0.85



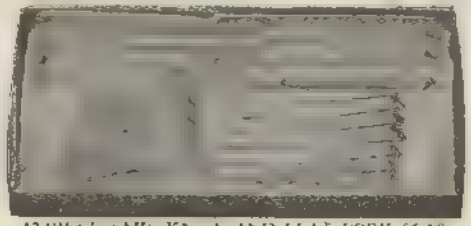
SOUP SPOON, Twelve in Plain Box
No. 5222 Length 6¾ in., per dozen. $8.60



INDIVIDUAL SALAD FORK
No. 5223 Length 6 in., six in lined box per set $5.00



THREE-PIECE CHILD'S SET
Flat Handle Knife, One Set in Lined Box
No. 5224 Length of Knife 7 in., per set. $2.20



12-PIECE EMB. KNIFE AND FLAT FORK SETS
No. 5225 Medium per set $9.20
No. 5226 Dessert, per set 8.80

BUTTER KNIFE AND SUGAR SPOON
One Set in Lined Box
No. 5227 Length of Knife 7⅛ in., set $1.60

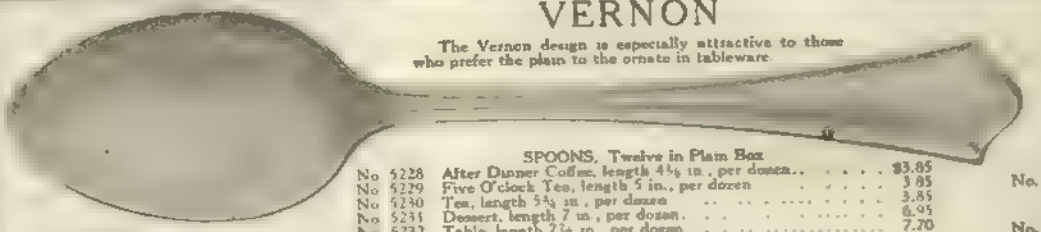
PRIMROSE DESIGN

ONEIDA COMMUNITY
PAR PLATE

VERNON

The Vernon design is especially attractive to those who prefer the plain to the ornate in tableware.

This Tableware is scientifically designed to give the greatest possible service for the money and while the price is moderate, the quality is excellent.

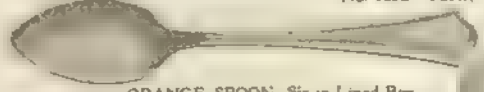


SPOONS, Twelve in Plain Box

No. 5228	After Dinner Coffee, length 4⅛ in., per dozen	$3.85
No. 5229	Five O'clock Tea, length 5 in., per dozen	3.85
No. 5230	Tea, length 5⅛ in., per dozen	3.85
No. 5231	Dessert, length 7 in., per dozen	6.95
No. 5232	Table, length 7⅞ in., per dozen	7.70

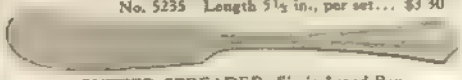
BABY FORK
One in Lined Box
No. 5233 Lgth. 3⅛ in., ea $0.70

BABY SPOON
One in Lined Box
No. 5234 Lgth. 3½ in., ea $0.70

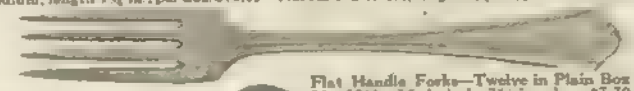


ORANGE SPOON, Six in Lined Box
No. 5235 Length 5½ in., per set... $3.30

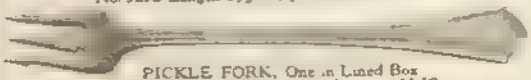
SOLID HANDLE EMBOSSED KNIVES—Six in Racked Box
No. 5237 Medium, length 9¼ in., per doz. $10.05 No. 5238 Dessert, length 8⅛ in., per doz. $9.80



BUTTER SPREADER Six in Lined Box
No. 5236 Length 5⅛ in., per set $4.40

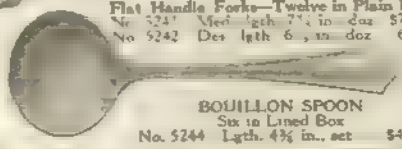


Flat Handle Forks—Twelve in Plain Box
No. 5241 Medium length 7¼ in., doz. $7.70
No. 5242 Dessert length 6⅞ in., doz. 6.95



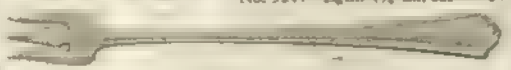
PICKLE FORK, One in Lined Box
No. 5239 Length 6 in., each... $1.10

HOLLOW HANDLE KNIVES
Six in Racked Box
No. 5240 Medium length 9¼ in., doz. $23.40



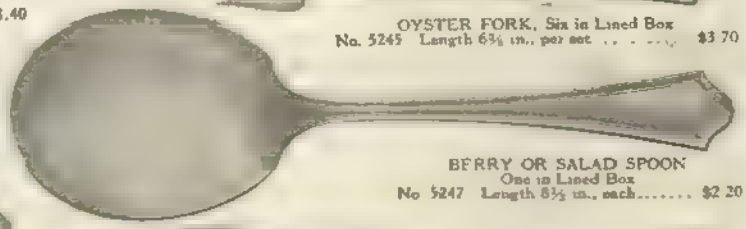
BOUILLON SPOON
Six in Lined Box
No. 5244 Lgth. 4⅜ in., set $4.40

COLD MEAT FORK
One in Lined Box
No. 5243 Length 8⅛ in., each. $1.40

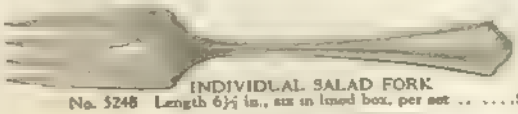


OYSTER FORK, Six in Lined Box
No. 5245 Length 6⅜ in., per set... $3.70

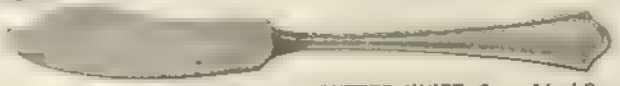
SUGAR SPOON
One in Lined Box
No. 5246 Length 5⅛ in. each $0.75



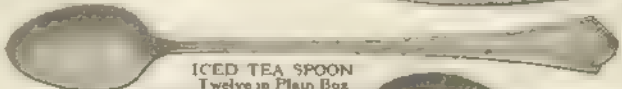
BERRY OR SALAD SPOON
One in Lined Box
No. 5247 Length 8½ in., each..... $2.20



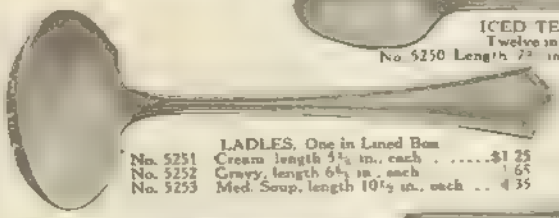
INDIVIDUAL SALAD FORK
No. 5248 Length 6½ in., six in lined box, per set.....$5.00



BUTTER KNIFE, One in Lined Box
No. 5249 Length 7⅛ in., each....$0.85

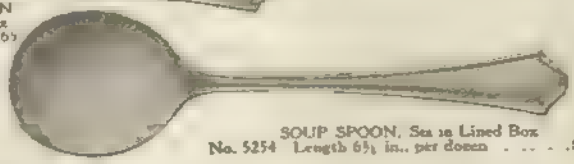


ICED TEA SPOON
Twelve in Plain Box
No. 5250 Length 7⅜ in. doz. $6.60



LADLES, One in Lined Box

No. 5251	Cream, length 5¼ in., each	$1.25
No. 5252	Gravy, length 6¼ in., each	1.65
No. 5253	Med. Soup, length 10⅛ in., each	4.35



SOUP SPOON, Six in Lined Box
No. 5254 Length 6⅝ in., per dozen... $9.55

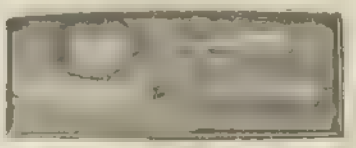
THREE-PIECE CHILD'S SET
Fast Handle Knife One Set in Lined Box
No. 5255 Lgth. of Knife 7 in., set $2.20

12-PIECE EMB. KNIFE AND FLAT FORK SETS

No. 5256	Medium, per set	$9.20
No. 5257	Dessert, per set	8.80

12-PIECE H. H. KNIFE AND FLAT FORK SETS

No. 5258	Medium, per set	$16.15



BUTTER KNIFE AND SUGAR SPOON
One Set in Lined Box
No. 5259 Lgth. of Knife 7⅛ in., set $1.60

SOLID H. EMB. FRUIT KNIFE
Six in Racked Box
No. 5260 Length 6⅞ in., per dozen $8.40

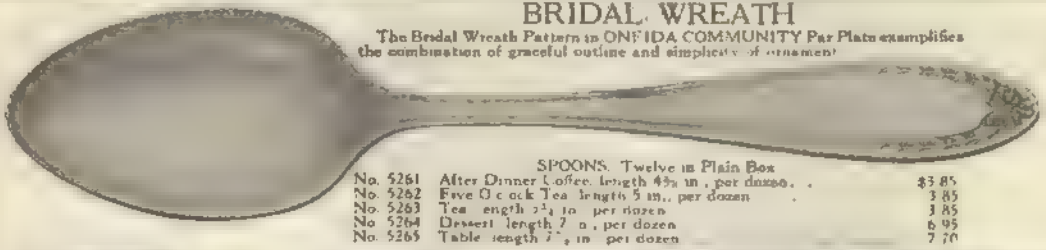
VERNON DESIGN

ONEIDA COMMUNITY
PAR PLATE

BRIDAL WREATH

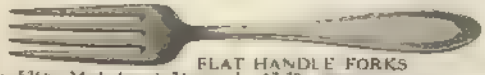
The Bridal Wreath Pattern in ONEIDA COMMUNITY Par Plate exemplifies the combination of graceful outline and simplicity of ornament

This Tableware is scientifically designed to give the greatest possible service for the money, and while the price is moderate, the quality is excellent.



SPOONS, Twelve in Plain Box

No. 5261	After Dinner Coffee, length 4⅝ in., per dozen	$3.85
No. 5262	Five O'clock Tea, length 5 in., per dozen	3.85
No. 5263	Tea, length 5¼ in., per dozen	3.85
No. 5264	Dessert, length 7 in., per dozen	6.95
No. 5265	Table, length 7⅞ in., per dozen	7.70

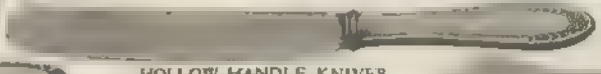


FLAT HANDLE FORKS

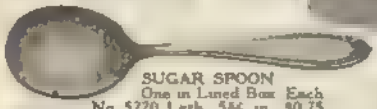
No. 5266 Med., length 7⅛ in., doz. $7.70
No. 5267 Des., length 6⅞ in., doz. 6.95

SOLID HANDLE EMB. KNIVES
Six in Racked Box

No. 5268 Med., lgth 9⅛ in., doz., $10.05
No. 5269 Des., lgth 8⅛ in., doz. 9.80



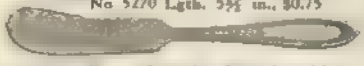
HOLLOW HANDLE KNIVES
Six in Racked Box
No. 5271 Med., lgth 9⅝ in., doz. $23.40



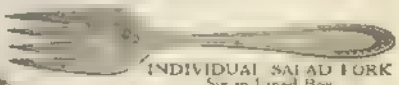
SUGAR SPOON
One in Lined Box Each
No. 5270 Lgth. 5⅝ in., $0.75

BUTTER KNIFE, One in Lined Box
No. 5272 Length 7⅜ in., each..... $0.85

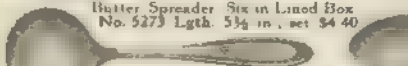
PICKLE FORK, One in Lined Box
No. 5274 Length 6 in., each..... $1.10



Butter Spreader, Six in Lined Box
No. 5273 Lgth. 5⅛ in., set $4.40

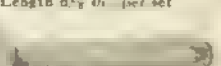


INDIVIDUAL SALAD FORK
Six in Lined Box
No. 5275 Length 6⅛ in., per set $5.00

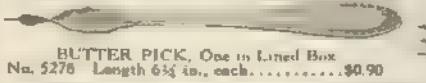


BOUILLON SPOON, Six in Lined Box
No. 5276 Lgth. 4¼ in., per set $4.40

ICED TEA SPOON, Twelve in Plain Box
No. 5277 Length 7⅛ in., per dozen $6.65

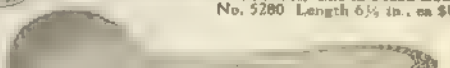


EMB. HANDLE CHEESE SPADE, One in Lined Box
No. 5280 Length 6⅛ in., ea. $1.05

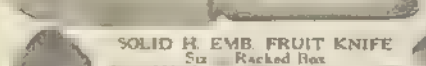


BUTTER PICK, One in Lined Box
No. 5278 Length 6¼ in., each..... $0.90

OYSTER FORK, Six in Lined Box
No. 5279 Lgth 6⅛ in., per set..... $3.70

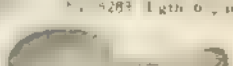


CAKE SPOON, Six in Lined Box
No. 5283 Lgth 6 in., doz. $9.35

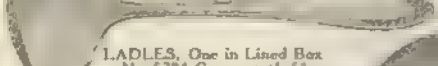


SOLID H. EMB. FRUIT KNIFE
Six in Racked Box
No. 5281 Lgth 6⅝ in., doz. $8.40

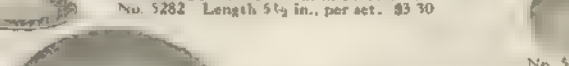
ORANGE SPOON, Six in Lined Box
No. 5282 Length 5½ in., per set. $3.30



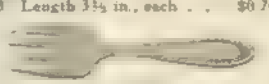
Baby Spoon, One in Lined Box
No. 5288 Length 3½ in., each.. $0.70



LADLES, One in Lined Box
No. 5284 Cream, lgth 5⅛ in., each $ .25
No. 5285 Gravy, lgth 6⅛ in., each 1.65
No. 5286 Med. Soup, lgth 10½ in., each 4.35

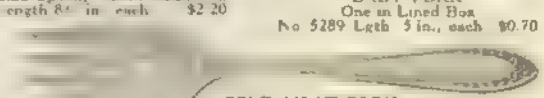


Berry or Salad Spoon, One in Lined Box
No. 5287 Length 8⅜ in., each $2.20



BABY FORK
One in Lined Box
No. 5289 Lgth 5 in., each $0.70

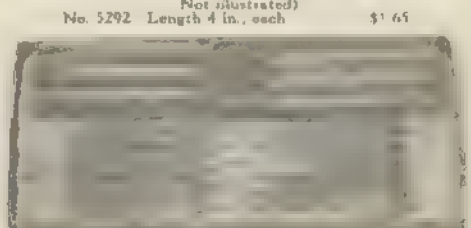
FLAT PIE SERVER
One in Lined Box
No. 5290 Length 10 in., each..... $2.20



COLD MEAT FORK
One in Lined Box
No. 5291 Length 8⅛ in., each.. $1.40

SUGAR TONGS, One in Lined Box
(Not illustrated)
No. 5292 Length 4 in., each $1.65

BUTTER KNIFE AND SUGAR SPOON
One Set in Lined Box
No. 5293 Lgth of Knife 7⅛ in., set. $1.60



12-PIECE H. H. KNIFE AND FLAT FORK SETS
No. 5294 Medium, per set $9.20
No. 5295 Dessert, per set 8.80

12-PIECE H. H. KNIFE AND FLAT FORK SETS
No. 5296 Medium, per set..... $16.15

THREE-PIECE CHILD'S SET
Flat Handle Knife, One Set in Lined Box
No. 5297 Length of Knife 7 in., set. $2.20

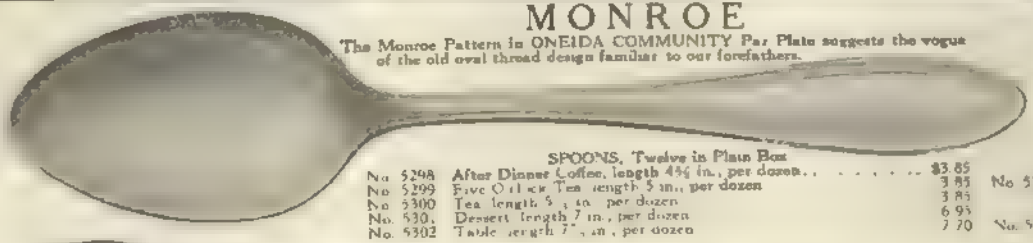
BRIDAL WREATH DESIGN

ONEIDA COMMUNITY
PAR PLATE

MONROE

The Monroe Pattern in ONEIDA COMMUNITY Par Plate suggests the vogue of the old oval thread design familiar to our forefathers.

This Tableware is scientifically designed to give the greatest possible service for the money, and while the price is moderate, the quality is excellent.

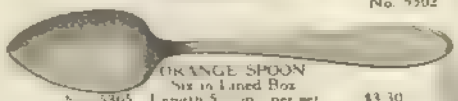


SPOONS, Twelve in Plain Box

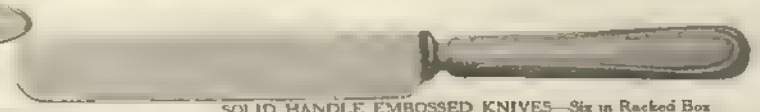
No. 5298	After Dinner Coffee, length 4½ in., per dozen	$3.85
No. 5299	Five O'clock Tea length 5 in., per dozen	3.85
No. 5300	Tea length 5 in. per dozen	3.85
No. 5301	Dessert length 7 in., per dozen	6.95
No. 5302	Table length 7 in., per dozen	7.70

BABY FORK
One in Lined Box
No. 5303 Lgth. 5 in. ea. $0.70

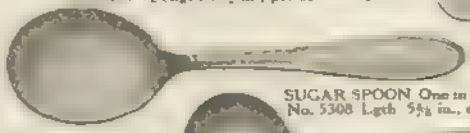
BABY SPOON
One in Lined Box
No. 5304 Lgth. 5 in. ea. $0.70



ORANGE SPOON
Six in Lined Box
No. 5305 Length 5 in., per set $3.30

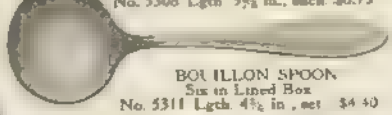


SOLID HANDLE EMBOSSED KNIVES—Six in Racked Box
No. 5306 Med., lgth. 9¼ in., per doz. $10.05 No. 5307 Dessert, lgth. 8⅛ in., per doz. $9.80



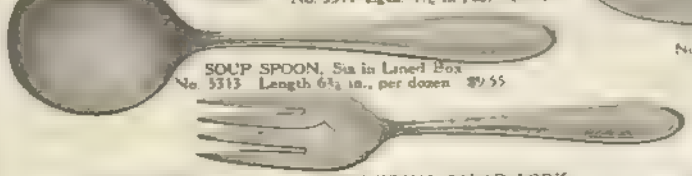
SUGAR SPOON One in Lined Box
No. 5308 Lgth. 5⅝ in., each $0.75

FLAT HANDLE FORKS, Twelve in Plain Box
No. 5309 Medium, length 7⅛ in., per dozen $7.70
No. 5310 Dessert, length 6⅞ in., per dozen 6.95

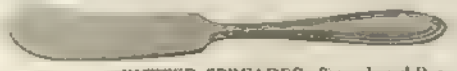


BOUILLON SPOON
Six in Lined Box
No. 5311 Lgth. 4⅛ in., set $4.40

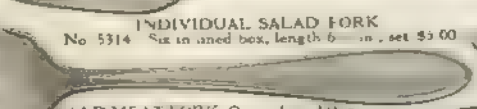
BUTTER KNIFE, One in Lined Box
No. 5312 Length 7 in., each $0.85



SOUP SPOON, Six in Lined Box
No. 5313 Length 6⅛ in., per dozen $9.55

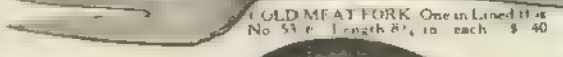


BUTTER SPREADER Six in Lined Box
No. 5315 Length 5⅛ in., per set $4.40

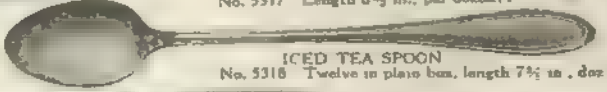


INDIVIDUAL SALAD FORK
No. 5314 Six in lined box, length 6 in., set $5.00

SOLID HANDLE EMB. FRUIT KNIFE
Six in Racked Box
No. 5317 Length 6½ in., per dozen $8.40



COLD MEAT FORK One in Lined Box
No. 5316 Length 8¼ in. each $0.40

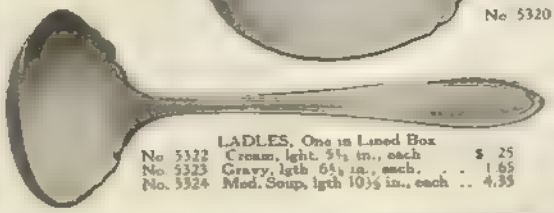


ICED TEA SPOON
No. 5318 Twelve in plain box, length 7½ in., doz. $6.65

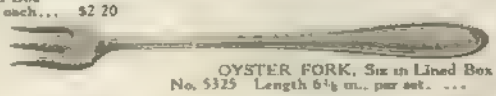
SUGAR TONGS
One in Lined Box
(Not illustrated)
No. 5319 Lgth. 4 in.
each $1.65

BERRY OR SALAD SPOON
One in Lined Box
No. 5320 Length 8½ in., each... $2.20

HOLLOW HANDLE KNIVES
Six in Racked Box
No. 5321 Med. length 9 in., doz. $23.40



LADLES, One in Lined Box
No. 5322 Cream, lgth. 5½ in., each $0.25
No. 5323 Gravy, lgth. 6½ in., each. . . 1.65
No. 5324 Med. Soup, lgth 10½ in., each .. 4.35



OYSTER FORK, Six in Lined Box
No. 5325 Length 6⅛ in., per set. ... $3.70

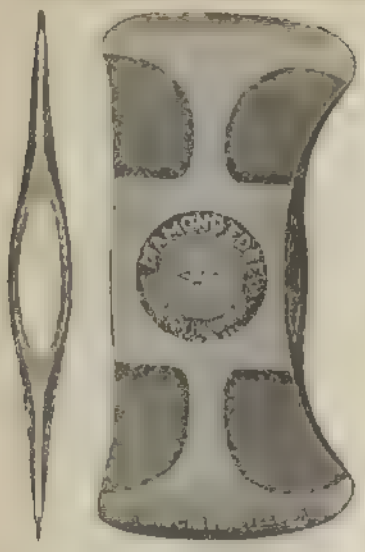
PICKLE FORK
One in Lined Box
No. 5326 Length 6 in., each . . $1.10

Three-PIECE CARVERS SET
Flat Handle Knife, One Set in Lined Box
No. 5327 Length of Knife 7 in., set...$2.20

2 PIECE EMB. KNIFE AND FLAT FORK SETS
No. 5328 Medium, per set... $9.20
No. 5329 Dessert, per set 8.80
12 PIECE H. H. KNIFE AND FLAT FORK SETS
No. 5330 Medium, per set ... $16.15

BUTTER KNIFE AND SUGAR SPOON
One Set in Lined Box
No. 5331 Length of Knife 7 in., set $1.60

MONROE DESIGN



DOUBLE BIT AXES
PHANTOM BEVELED
*DIAMOND EDGE

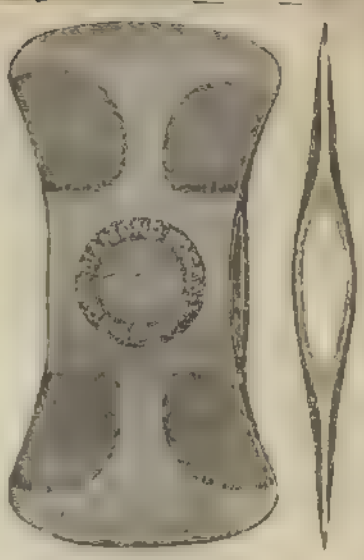
Polished and Labeled; Carmine Painted Bevels

DIAMOND EDGE Axes are Recognized as Being the Best Made. They are **Hand Tempered** by an Improved Process; Every Axe **Carefully Tested** before leaving the Factory. This Practically Prevents Axes with Flaws or Soft Cutting Edges Reaching the User. It also insures Uniformity of Temper, without which an Axe will Not Hold a Fine, Sharp Cutting Edge.

Highest Grade **Crucible Steel** Bit, Carefully Tempered and Ground, Soft Steel Body. The Eyes are Punched from Solid Steel and will not Scratch nor Break, as Occurs with Axes Having a Rolled or Welded Eye. The Eye is Tapered from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting

In Ordering Axes on this Page Give Numbers and Weights Only

DIAMOND EDGE Axe Wedge Used in All Our Handled Axes. Full Description on Page 3.



UNHANDLED

No. DE865—MICHIGAN PATTERN

Weights, Assorted	3/4	3½/4½	4/5	4½/5½
Per Doz.	$28 00	28 50	29 00	29 50

No. DE965—CALIFORNIA REVERSIBLE PATTERN

Weights, Assorted	3/4	3½/4½	4/5	4½/5½
Per Doz.	$28 00	28 50	29 00	29 50

One Dozen of each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

HANDLED

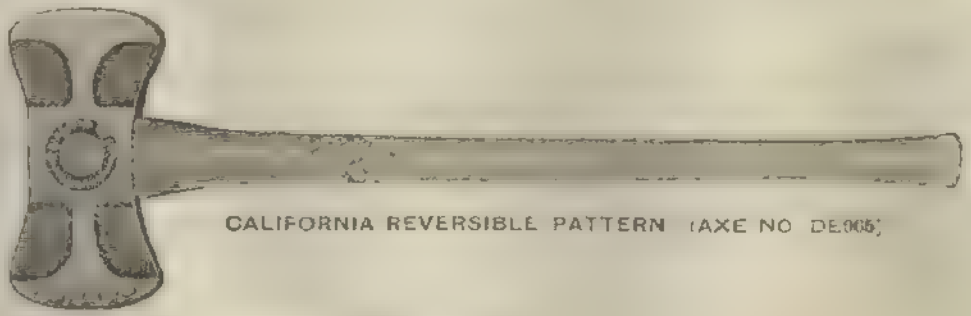
The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

THE DIAMOND EDGE AXE WEDGE IS USED IN HANDLING THIS AXE

MICHIGAN PATTERN—(AXE NO. DE865)

Kind of Handle	Weights, Assorted	3/4	3½/4½	4/5	4½/5½
No. DE865AA With No. AA Norleigh Diamond Octagon, Per Dozen		$35 50	$36 00	$36 50	$37 00
No. DE865AAA With No. AAA Norleigh Diamond Octagon	"	36 00	36 50	37 00	37 50
No. DE865BB With No. BB Norleigh Diamond Oval	"	35 50	36 00	36 50	37 00
No. DE865CC —With No. CC Favorite Octagon	"	34 50	35 00	35 50	36 00
No. DE865DD With No. DD Favorite Oval	"	34 50	35 00	35 50	36 00
No. DE865LL With No. LL Tip Top Octagon	"	33 00	33 50	34 00	34 50
No. DE865FF With No. FF Tip Top Oval	"	33 00	33 50	34 00	34 50
No. DE865LL With No. LL Mound City Oval	"	32 00	32 50	33 00	33 50
No. DE865LLO With No. LLO Mound City Octagon	"	32 00	32 50	33 00	33 50
No. DE865LOD With No. LOD Live Oak Oval, Oak	"	33 00	33.50	34.00	34 50

THE DIAMOND EDGE AXE WEDGE IS USED IN HANDLING THIS AXE



CALIFORNIA REVERSIBLE PATTERN (AXE NO. DE965)

Kind of Handle	Weights, Assorted	3/4	3½/4½	4/5	4½/5½
No. DE965AA With No. AA Norleigh Diamond Octagon, Per Dozen		$35 50	$36 00	$36 50	$37 00
No. DE965AAA With No. AAA Norleigh Diamond Octagon	"	36 00	36 50	37 00	37 50
No. DE965BB With No. BB Norleigh Diamond Oval	"	35 50	36 00	36 50	37 00
No. DE965CC With No. CC Favorite Octagon	"	34 50	35 00	35 50	36 00
No. DE965DD With No. DD Favorite Oval	"	34 50	35 00	35 50	36 00
No. DE965LL With No. LL Tip Top Octagon	"	33 00	33 50	34 00	34 50
No. DE965FF With No. FF Tip Top Oval	"	33 00	33 50	34 00	34 50
No. DE965LL With No. LL Mound City Oval	"	32 00	32 50	33 00	33 50
No. DE965LLO With No. LLO Mound City Octagon	"	32 00	32 50	33 00	33 50
No. DE965LOD—With No. LOD Live Oak Oval, Oak	"	33 00	33 50	34 00	34 50

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

DOUBLE BIT AXES

*DIAMOND EDGE

DIAMOND EDGE Axes are Recognized as Being the Best Made. They are **Hand Tempered** by an Improved Process. Every Axe **Carefully Tested** before Leaving the Factory. This Practically Prevents Axes with Flaws or Soft Cutting Edges Reaching the User. It also Insures Uniformity of Temper, without which an Axe will Not Hold a Fine, Sharp Cutting Edge.

Highest Grade Crucible Steel Bit, Carefully Tempered and Ground, Soft Steel Body. **The Eyes are Punched** from Solid Bars and Have No Stretch nor Break, as Occurs with Axes Having a Welded Eye. **The Eye is Tapered** from the Outer to the Inner Opening, thus Holds the Handle Firmly and Prevents its Splitting.

In Ordering Axes on this Page

Give Numbers and Weights Only

DIAMOND EDGE Axe Wedges Used in All Our Handled Axes. Full Description on Page 3.

UNHANDLED

Black Gun Metal Finish; Labeled

No. DEB850—WESTERN PATTERN | **DEB875—MICHIGAN PATTERN**

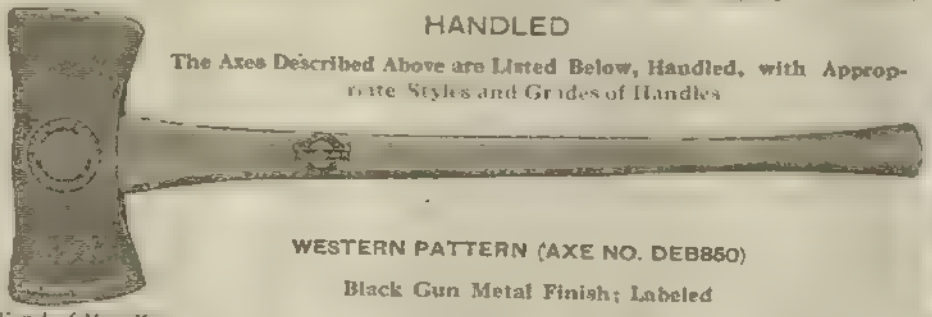
Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½	Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
Per Dozen	$26 00	26 50	27 00	27 50	Per Dozen	$26 00	26 50	27 00	27 50

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below, Handled, with Appropriate Styles and Grades of Handles

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



Cut shows Handle Broken Open to show the Two Round Slivers Cut by Wedge.

WESTERN PATTERN (AXE NO. DEB850)

Black Gun Metal Finish; Labeled

Kind of Handle	Weights, Assorted	3 4	3½ 4½	4/5	4½/5½
No. DEB850AA	With No. AA Norleigh Diamond Octagon	$33 50	$34 00	$34 50	$35 00
No. DEB850XAA	With No. XAA Norleigh Diamond Octagon	34 00	34 50	35 00	35 50
No. DEB850BB	With No. BB Norleigh Diamond Oval	33 50	34 00	34 50	35 00
No. DEB850CC	With No. CC Norleigh Diamond Oval	32 50	33 00	33 50	34 00
No. DEB850DD	With No. DD Favorite Oval	32 50	33 00	33 50	34 00
No. DEB850EE	With No. EE Norleigh Top Octagon	31 00	31 50	32 00	32 50
No. DEB850EL	With No. EE Norleigh Top Oval	31 00	31 50	32 00	32 50
No. DEB850LO	With No. LO Norleigh Diamond City Octagon	30 00	30.50	31 00	31 50
No. DEB850LOD	With No. LOD Live Oak Oval, Oak	31 00	31.50	32 00	32.50

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

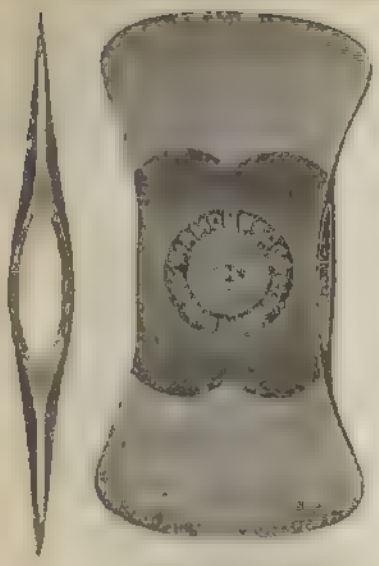
Cut shows Wedge driven in Handle and Handle pulled apart to show Binding effect produced by action of the Wedge.

MICHIGAN PATTERN (NO. DEB875)

Black Gun Metal Finish; Labeled

Kind of Handle	Weights, Assorted	3/4	3½/4½	4/5	4½/5½
No. DEB875AA	With No. AA Norleigh Diamond Octagon Per Dozen	$33 50	$34 00	$34 50	$35 00
No. DEB875XAA	With No. XAA Norleigh Diamond Octagon	34 00	34 50	35 00	35 50
No. DEB875BB	With No. BB Norleigh Diamond Oval	33 50	34 00	34 50	35 00
No. DEB875CC	With No. CC Norleigh Diamond Oval	32 50	33 00	33 50	34 00
No. DEB875DD	With No. DD Favorite Oval	32 50	33 00	33 50	34 00
No. DEB875EE	With No. EE Norleigh Top Octagon	31 00	31 50	32 00	32 50
No. DEB875EF	With No. EE Norleigh Top Oval	31 00	31 50	32 00	32 50
No. DEB875EL	With No. EE Norleigh Top Oval	30 00	30 50	31 00	31 50
No. DEB875LO	With No. LO Norleigh Diamond City Octagon	30 00	30 50	31 00	31 50
No. DEB875LOD	With No. LOD Live Oak Oval, Oak	31 10	31 60	32 10	32.60

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.



DOUBLE BIT AXES

*DIAMOND EDGE

DIAMOND EDGE Axes are Recognized as B[illegible] the Best Made. They are **Hand Tempered** by an Improved Process. [illegible] Are **Carefully Tested** Before Leaving the Factory. This Practically Prevents Axes with Flaws or Soft Cutting Edges Reaching the User. It [illegible] Uniformity of [illegible] per, without which an Axe would [illegible] Hold a Fine Sharp Cutting Edge.

Highest grade **Crucible Steel Bit,** Carefully Tempered and Ground, Soft Steel Body. The **Eyes are Punched** from Solid Steel and will not Stretch nor Break, as Occurs with Axes Having a Rolled or Welded Eye. The **Eye is Tapered** from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting

In Ordering Axes on this Page, Give Numbers and Weights Only

DIAMOND EDGE Axe Wedge Used in all Our Handled Axes. Full Description on Page 3.

UNHANDLED

No. DE950—CALIFORNIA REVERSIBLE PATTERN
Gold Bronzed Body; Labeled; Polished Bits
Wide Bits

Weights, Assorted	3¼	3½/4½	4/5
Per Dozen.....	$28.00	26.50	27.00

No. DEH850—WESTERN PATTERN
Hand Made; Black Forge Finish; Etched
Wide Bits

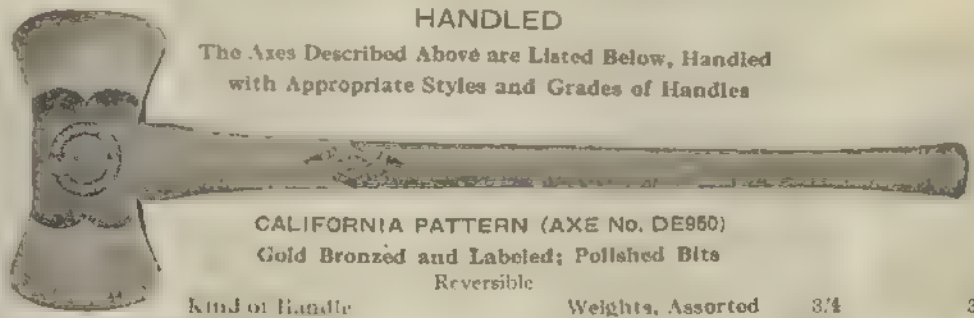
Weights, Assorted	3¼	3½/4½	4/5	4½/5½
Per Dozen..	$30.00	30 50	31.00	31 50

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

HANDLED

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

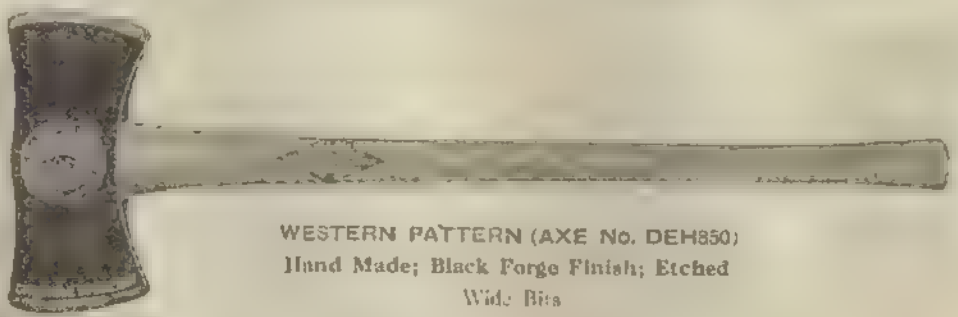


CALIFORNIA PATTERN (AXE No. DE950)
Gold Bronzed and Labeled; Polished Bits
Reversible

	Kind of Handle	Weights, Assorted	3¼	3½-4½	4-5
No. DE950AA	With No. AA [illegible]	Per Dozen	$33 50	$34.00	$34 50
No. DE950XAA	With No. XAA [illegible]	"	34 00	34 50	35 00
No. DE950BB	With No. 3 [illegible]	"	33.50	34 00	34 50
No. DE950CC	With No. [illegible]	"	32.50	33 00	33 50
No. DE950DD	With No. [illegible]	"	32 50	33 00	33 50
No. DE950FF	With No. [illegible] Top Oval	"	31 00	31 50	32 00
No. DE950FT	With No. [illegible]	"	31 00	31 50	32 00
No. DE950LL	With No. LL Mound City Oval	"	30 00	30 50	31 00
No. DE950LLO	With No. LLO Mound City Octagon	"	30 00	30 50	31 00
No. DE950LOD	With No. LOD Live Oak Oval, Oak	"	31 00	31 50	32.00

One Dozen of Each Assortment of Weights in a Crate. Average Weight per Crate 75 lbs.

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



WESTERN PATTERN (AXE No. DEH850)
Hand Made; Black Forge Finish; Etched
Wide Bits

	Kind of Handle	Weights, Assorted	3¼	3½-4½	4-5	4½-5½
No. DEH850AA	With No. AA [illegible]	Per Dozen	$37.00	$37 50	$38 00	$38 50
No. DEH850XAA	With No. XAA [illegible]	"	37.50	38 00	38.50	39.00
No. DEH850BB	With No. 3 [illegible]	"	37.00	37.50	38.00	38.50
No. DEH850CC	With No. [illegible] Octagon	"	36 00	36.50	37.00	37.50
No. DEH850DD	With No. [illegible] Oval	"	36.00	36.50	37.00	37.50
No. DEH850FF	—With No. [illegible] Top Oval	"	35 00	35 50	36 00	36.50
No. DEH850FT	—With No. [illegible]	"	35 00	35 50	36 00	36.50
No. DEH850LL	—With No. LL Mound City Oval	"	34.00	34.50	35.00	35.50
No. DEH850LLO	With No. LLO Mound City Octagon	"	34.00	34.50	35.00	35.50
No. DEH850LOD	With No. LOD Live Oak Oval, Oak	"	35.00	35.50	36.00	36.50

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

DOUBLE BIT AXES

*DIAMOND EDGE

Gold Bronzed Body; Polished Bit and Head

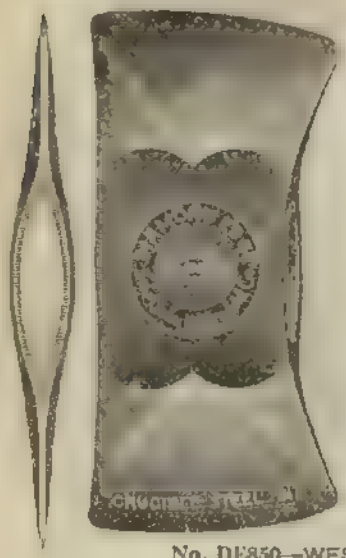
DIAMOND EDGE Axes are Recognized as Being the Best Made. They are Hand Tempered by an Improved Process. Every Axe Carefully Tested Before Leaving the Factory. This Practically Prevents Axes with Flaws or Soft Cutting Edges Reaching the User. It also Insures Uniformity of Temper, without which an Axe will Not Hold a Fine, Sharp Cutting Edge. Highest Grade Crucible Steel Bit, Carefully Tempered and Ground. Soft Steel Body. The Eyes are Punched from Solid Steel and will not Stretch [illegible] as Occurs with Axes Having a Rolled or Welded Eye. The Eye Is Tapered from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting

In Ordering Axes on this Page, Give Numbers and Weights Only

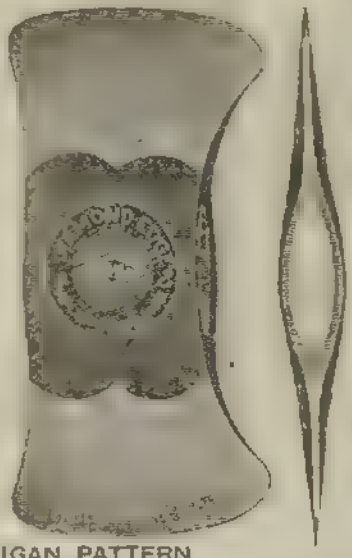
DIAMOND EDGE Axe Wedge Used in All Our Handled Axes. Full Description on Page 3.

UNHANDLED

Gold Bronzed and Labeled; Polished Bit



No. DE850—WESTERN PATTERN



No. DE875—MICHIGAN PATTERN

Weights, Assorted....	3/4	3½/4½	4/5	4½/5½
Per Dozen.....	$26.00	26.50	27.00	27.50

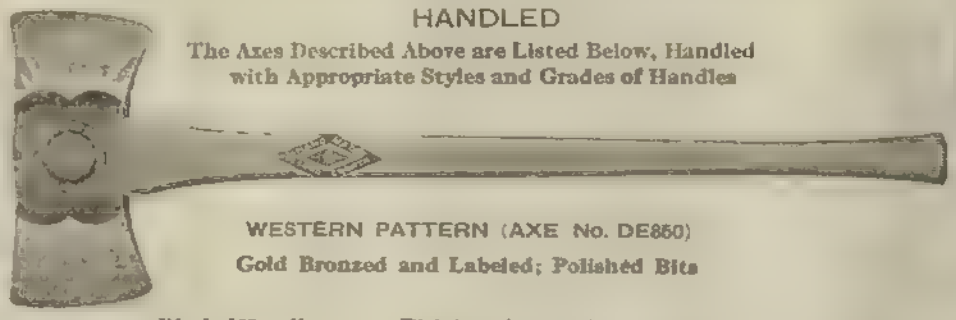
Weights, Assorted.....	3/4	3½ 4½	4 5
Per Dozen.....	$26.00	26.50	27.00

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



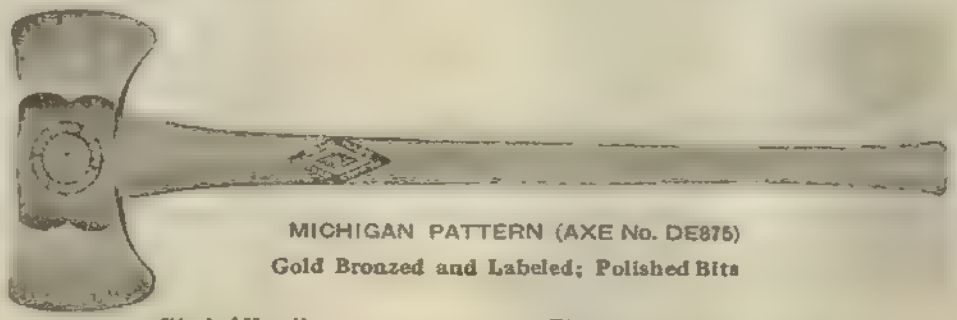
WESTERN PATTERN (AXE No. DE850)

Gold Bronzed and Labeled; Polished Bits

Cut shows Wedge driven in Handle and Handle split [illegible] to show Burning effect produced by [illegible] of the Wedge

Kind of Handle	Weights, Assorted	3/4	3½/4½	4 5	4½ 5½
No. DE850AA —With No. AA Norleigh Diamond Octagon	Per Dozen	$33.50	$34.00	$34 50	$35.00
No. DE850XAA —With No. XAA Norleigh Diamond Octagon	"	34 00	34 50	35 00	35 50
No. DE850BB —With No. BB Norleigh Diamond Oval	"	33 50	34 00	34 50	35.00
No. DE850CC —With No. CC Favorite Octagon	"	32 50	33 00	33 50	34.00
No. DE850DD —With No. DD Favorite Oval	"	32 50	33 00	33 50	34 00
No. DE850EE —With No. EE Tip Top Octagon	"	31 00	31 50	32 00	32.50
No. DE850FF —With No. FF Tip Top Oval	"	31 00	31 50	32 00	32.50
No. DE850LL —With No. LL Mound City Oval	"	30 00	30 50	31.00	31.50
No. DE850LLO —With No. LLO Mound City Octagon	"	30 00	30 50	31 00	31.50
No. DE850LOD —With No. LOD Live Oak Oval, Oak	"	31.00	31.50	32 00	32.50

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



MICHIGAN PATTERN (AXE No. DE875)

Gold Bronzed and Labeled; Polished Bits

Cut shows Handle Broken Open to show the Two Round Slivers Cut by Wedge.

Kind of Handle	Weights, Assorted	3/4	3½ 4½	4 5
No. DE875AA —With No. AA Norleigh Diamond Octagon	Per Dozen	$33 50	$34 00	$34 50
No. DE875XAA —With No. XAA Norleigh Diamond Octagon	"	34 00	34 50	35 00
No. DE875BB —With No. BB Norleigh Diamond Oval	"	33.50	34 00	34 50
No. DE875CC —With No. CC Favorite Octagon	"	32 50	33 00	33 50
No. DE875DD —With No. DD Favorite Oval	"	32 50	33 00	33 50
No. DE875EE —With No. EE Tip Top Octagon	"	31 00	31 50	32.00
No. DE875FF —With No. FF Tip Top Oval	"	31 00	31 50	32.00
No. DE875LL —With No. LL Mound City Oval	"	30 00	30 50	31 00
No. DE875LLO —With No. LLO Mound City Octagon	"	30 00	30 50	31 00
No. DE875LOD—With No. LOD Live Oak Oval, Oak	"	31 00	31 50	32 00

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

Vises

Prentiss' Patent Vises

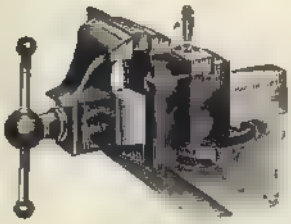


Fig. 733

Machinists' Self-Adjusting Jaw Vise
Stationary Bottom

No. 1	2½-inch jaws,	opens 3½ inches;	weight, 13 ½ pounds	each	$ 5 50
No. 2	3 -inch jaws,	opens 4½ inches;	weight, 28 pounds	each	7 00
No. 2½	4 -inch jaws;	opens 5½ inches;	weight, 41 pounds	each	9 00
No. 3	4½-inch jaws;	opens 6 inches	weight, 54 pounds	each	10 50
No. 4	5½-inch jaws;	opens 8 inches	weight, 96 pounds	each	17 00
No. 5	6 -inch jaws,	opens 9 inches	weight, 146 pounds	each	24 00
No. 6	7 -inch jaws,	opens 11 inches,	weight, 184 pounds	each	30 00

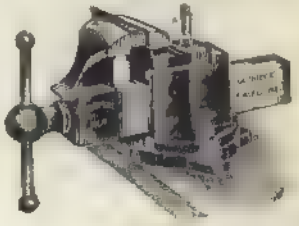


Fig. [illegible]

Machinists' Self-Adjusting Jaw Vise
Patent Swivel Bottom

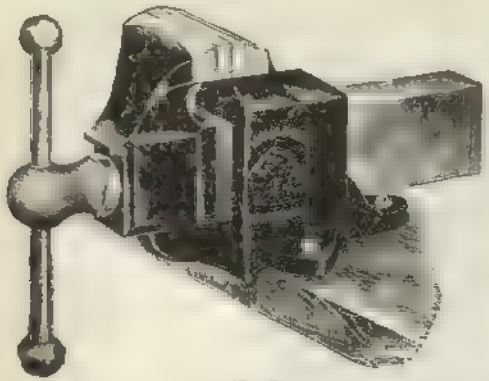
No. 18	2½-inch jaws	opens 3½ inches;	weight, 17 pounds	each	$ 6 75
No. 19	3½-inch jaws	opens 4½ inches;	weight, 32 pounds	each	9 50
No. 19½	4 -inch jaws,	opens 5½ inches;	weight, 46 pounds	each	11 50
No. 20	4½-inch jaws,	opens 6 inches	weight, 65 pounds	each	13 50
No. 21	5½-inch jaws;	opens 8 inches	weight, 109 pounds	each	19 00
No. 22	6 -inch jaws;	opens 9 inches	weight, 168 pounds	each	27 00
No. 23	7 -inch jaws,	opens 11 inches	weight, 307 pounds	each	45 00

Fig. 735

Machinists' New Rapid Transit
Vise Stationary Bottom

No. 70	3 -inch jaws,	opens 3½ inches;	weight, 22 pounds	each	$ 6 50
No. 71	3½-inch jaws	opens 4½ inches;	weight, 23 pounds	each	8 00
No. 72	4 -inch jaws,	opens 5½ inches;	weight, 54 pounds	each	11 00
No. 73	4½-inch jaws,	opens 6½ inches,	weight, 65 pounds	each	13 50
No. 74	5½-inch jaws,	opens 8 inches	weight, 98 pounds	each	21 00
No. 75.	6 -inch jaws	opens 9½ inches	weight, 150 pounds	each	28 00

Vises



Prentiss Patent Vises
Monarch Machinists' Vises
Stationary Bottom
Machinists' Solid Jaw
Parallel Vise

Fig. 736

No. 213	Stationary bottom 3 guard jaw open [illegible] inches, weight [illegible] pounds	each	$	6 00
No. 214	Swivel bottom, weight 28 pounds	each		7 50
No. 215	Stationary bottom [illegible] inches weight 28 pounds	each		7 00
No. 21[illegible]	Swivel bottom, weight, 36 pounds	each		8 75
No. 21[illegible]	Stationary bottom [illegible] jaw open [illegible] inches weight 45 pounds	each		9 50
No. 21[illegible]	Swivel bottom; weight 52 pounds	each		10 50
No. 21[illegible]	Stationary bottom 5 inch jaws open [illegible] inches weight, 55 pounds	each		10 00
No. 220	Swivel bottom, weight, 64 pounds	each		12 50
No. 22[illegible]	Stationary bottom [illegible] jaw open [illegible] inches weight 82 pounds	each		13 00
No. 222	Swivel bottom; weight, 85 pounds	each		16 00
No. 223	Stationary bottom 6 inch jaws open 9 inches weigh 100 pounds	each		18 50
No. 224	Swivel bottom, weight, 115 pounds	each		22 00
No. 225	Stationary bottom [illegible] jaw open [illegible] inches weight 145 pounds	each		25 00
No. 226	Swivel bottom weight, 158 pounds	each		30 00

Discount

Prentiss' Heavy Clipping Vise

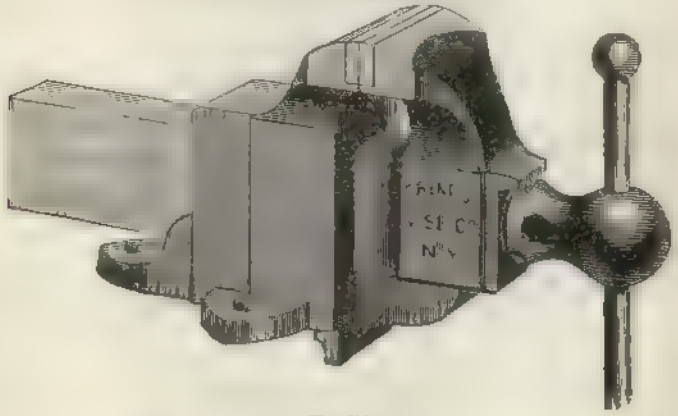


Fig. 737

Made especially to supply the demand for a vise of [illegible] class for use in railroad and machine shops [illegible] large manufacturing [illegible]. This is the largest solid base vise in the market.

No. 58.	Solid jaw open [illegible] inches weight 275 pounds	each	$	50 00
No. 58	With swivel bottom, extra			5 00

Discount.

Vises

Fig. 738

Prentiss' Blake Pipe Vise

Strongest combination pipe vise made. Swivel base guaranteed not to slip. Pipe jaws are reversible. Best material, proper finish.

No. 181. Jaws, 3½ inches, holds ⅛ to 2½-inch pipe; weight, 55 pounds ..... each $16 00

No. 182. Jaws, 4½ inches; holds ⅛ to 3-inch pipe, weight, 80 pounds ..... each 20 00

No. 182½. Jaws, 5 inches; holds ⅛ to 4-inch pipe; weight, 120 pounds ..... each 28 00

Prentiss' Patent Vises

Bull Dog Vises, Stationary Bottom
Machinists' Solid Jaw Parallel Vise

No. 50.	3	in.	jaws; opens	5	in.	wt.	22	lbs.	$ 4 80
No. 51.	3½	in.	jaws; opens	6	in.	wt.	28	lbs.	6 00
No. 53.	4	in.	jaws; opens	7	in.	wt.	40	lbs.	8 00
No. 53½.	4½	in.	jaws; opens	8	in.	wt.	54	lbs.	10 00
No. 54.	5	in.	jaws; opens	8	in.	wt.	72	lbs.	12 00
No. 55.	5½	in.	jaws; opens	9	in.	wt.	100	lbs.	18 50
No. 56.	6	in.	jaws; opens	10	in.	wt.	150	lbs.	25 00
No. 57.	7	in.	jaws opens 12		in.,	wt., 310	pounds		35 50

Discount

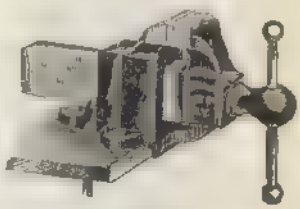


Fig. 739

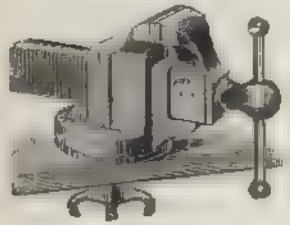


Fig. 740

Bull Dog Vises, Swivel Bottom
Machinists' Solid Jaw Parallel Vise

No. 90	4	in.	jaws; opens	4	in.	weight,	28	pounds	$ 6 00
No. 91	4½	in.	jaws; opens	5½	in.	weight,	36	pounds	8 00
No. 92	4	in.	jaws; opens	6	in.	weight,	52	pounds	10 00
No. 93	4½	in.	jaws; opens	7	in.	weight,	64	pounds	12 50
No. 94	5	in.	jaws; opens	8	in.	weight,	85	pounds	16 00
No. 95	5	in.	jaws, opens	9	in.	weight,	115	pounds	22 00
No. 96	6	in.	jaws; opens	10	in.	weight,	155	pounds	30 00
No. 97	7	in.	jaws, opens	12	in.	weight,	235	pounds	42 50

Discount

Bull Dog Wood-Workers' Vise
Stationary Bottom
Coachmakers' Solid Jaw
Parallel Vise

No. 59. 4½ inch jaws; opens 9 inches, weight, 48 pounds ..... $ 9 50

No. 99. Swivel bottom, 4½ inch jaws, opens 9 inches, weight, 58 pounds 11 50

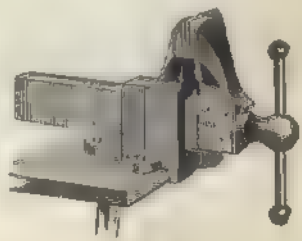


Fig. 74.

Vises

Parker's Combination Pipe Vises

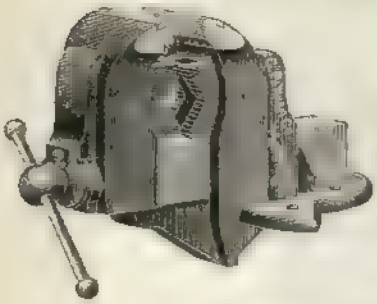


Fig. 744

Stationary

Series No. 88½

The steel faces of Series No. 88½ are milled and fitted to the jaws, and are renewable

No.	Weight, Pounds	Jaw, Inches	Vise Opens, Inches	Holds Pipe, Inches	List
88½	84	4⅜	6¾	4	$28 00
89½	141	5⅝	9½	6	35 00

Parker's Combination Pipe Vises

Swivel Bottom

Series No. 87 to 89½

The steel faces of Series Nos. 87 to 89½ are milled and fitted to the jaws, and are renewable

No.	Weight, Pounds	Jaw, Inches	Vise Opens, Inches	Holds Pipe, Inches	List
87	41	3⅛	4¾	3	$16 00
88	59	4⅛	6	3	20 00
2-88½	103	4⅝	6½	4	30 00
2-89½	155	5⅝	9½	6	35 00

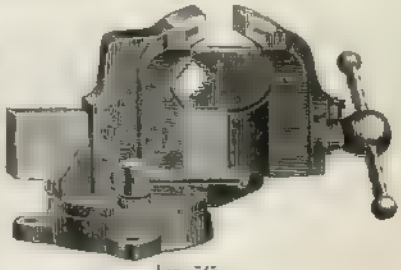


Fig. 745

Parker's Swivel Heavy Chipping or Filing Vises

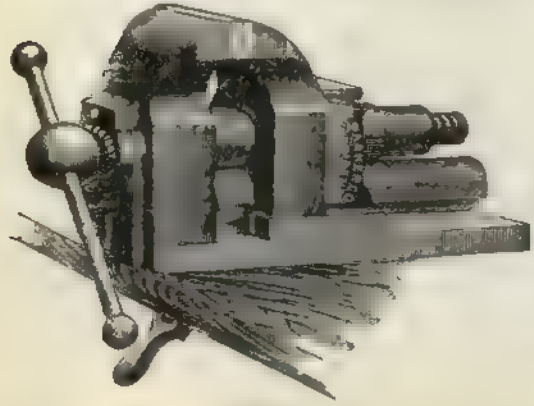


Fig. 746

Swivels on the Bench

Series No. 65

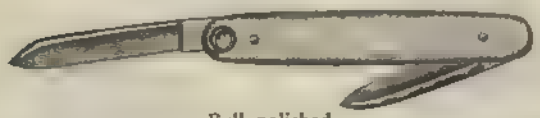
The steel faces of Series No. 65 are milled and fitted to the jaws, and are renewable

No.	Weight, Pounds	Jaw, In.	Vise Opens, In	List
65	80	5	6	$18 00
66	100	6	7	24 00

POCKET KNIVES

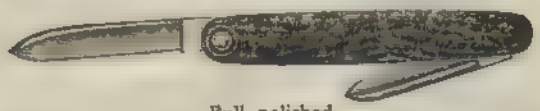
Highest Grade English Crucible Steel Blades, Highly Tempered, Sharpened Ready for Use

PRESS BUTTON KNIVES



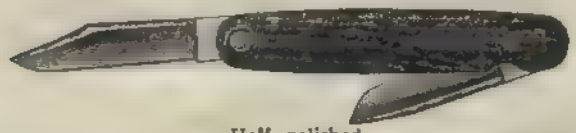
Full polished

Per Dozen
No. 2376—2 blades, **Pearl** handle, brass lined, 2⅞ in.... $30 00



Full polished

Per Dozen
No. 2378—2 blades, **Stag** handle, brass lined, 3⅜ in. $15 00
No. 2380—2 blades, **Pearl** handle, brass lined 3⅜ in.. .. .. . 10 00



Half polished

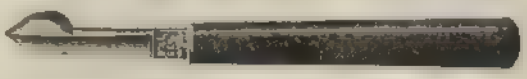
Per Dozen
No. 2399—2 blades, **Stag** handle, brass lined, 3⅜ in $17 00

Half polished, German silver bolster

Per Dozen
No. 1127—1 blade, **Stag** handle steel lined, 5 in $16 00
No. 1126—1 blade, **Stag** handle, steel lined, 4 in 15 00
Press Button Knives, Half Dozen in a Box

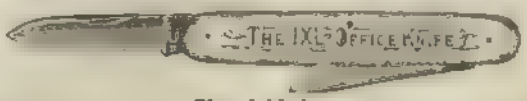
Steel Eraser or Office Knife

Per Dozen
No. 56110—Cocoa handle, 5¼ in.....$7 00
No. 8410—Cocoa handle, 6¼ in.... .... 6 00
Half Dozen in a Box



Steel Eraser or Office Knife
Full polished blade

Per Dozen
No. 14300—**Ebony** handle, 6¼ in.....$12 00
Half Dozen in a Box



Glazed blades

Per Dozen
No. 16584—2 blades, **White Celluloid** handle, brass lined, 3¾ in. $14 00
Half Dozen in a Box

POCKET KNIFE PURSES

Nos.	0B	1B	2B	2½B	3B	4B
Sizes	3x⅞	3¼x1	3½x1⅛	3¾x1⅛	4x1¼	4¼x1¼
Per dozen	$1.20	1.20	1.20	1.20	1.20	1.20

Four Dozen in a Box

POCKET KNIFE ASSORTMENTS

No. G9 Assortment—Consists of 12 **Pearl** handle pocket knives, assorted three and four blades, ranging in price from $1 00 to $1 50 each; packed in a racked case, 10½x3½x⅞ in., purple velvet lined.....**Per assortment $15 00**

No. G5 Assortment—Consists of 12 **Pearl** handle ladies' pocket knives, two blades, ranging in price from 50 to 75 cents; packed in a racked case, 10½x3½x⅞ in., purple velvet lined . . . .Per assortment $8 00

No. B9 Assortment—Consists of 12 **Assorted Pearl** handle, **BBB** pocket knives, two blades, ranging in price from $1 00 to $1 50 each; packed in a racked case, 10½x3½x⅞ in., **green** velvet lined, as shown over No. B12 Assortment.
Per assortment 13.00

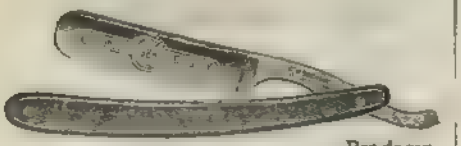
No. G4 Assortment—Consists of 12 **Assorted Stag and Celluloid** handle, pocket knives, two, three and four blades, ranging in price from 50 to 75 cents; packed in a racked case, 10⅛ x 3½x⅞ in., purple velvet lined.....Per assortment $8.00

No. B12 Assortment—Consists of 12 **Assorted Pearl** handle, **BBB** pocket knives, two, three and four blades, ranging in price from $1 50 to $2 00 each; packed in a racked case, 10½x3½ x ⅞ in., green velvet lined.....Per assortment $24 00

BBB RAZORS

Highest Grade Razor Steel Blades, Hand Forged, Uniformly Tempered, Carefully Ground and Tested, Honed Ready for Use

No. B2051—Black oval rubber handle, ⅝ inch blade, etched Roycroft, full hollow ground, full crocus polished, pearl tang.....Per dozen $45 00



Per dozen

No. B1586RP Black flat rubber handle, ⅝ inch blade, etched in gold, full hollow ground, full crocus polished..$36 00
No. B1586SP—Square point..... 36 00

Centurion

No. 1941—Fancy black rubber handle, ⅝ inch blade, full hollow ground, polished blade.....Per dozen $30 00

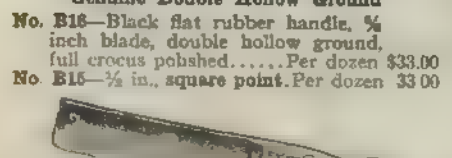
Pearl Prince

No. B1906—Iris celluloid handle, ⅝ inch blade, etched in gold, full hollow ground, full crocus polished. Per dozen $33 00

No. B14—Ribbed black rubber handle, ⅝ inch blade, extra full hollow ground, polished blade..Per dozen $30 00

Genuine Double Hollow Ground

No. B16—Black flat rubber handle, ⅝ inch blade, double hollow ground, full crocus polished.....Per dozen $33.00
No. B15—½ in., square point. Per dozen 33 00



American Beauty Per dozen

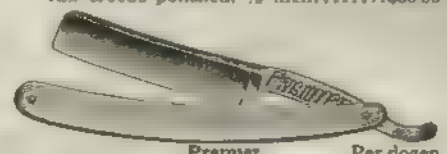
No. B074—Laminated white and black celluloid handle, seven-eighths concave, polished blade ⅝ inch..... $27 00
No. B073—⅝ inch, round point..... 27 00
All Above Half Dozen in a Box

Per dozen

No. B6—Laminated black and white celluloid handle, ⅝ inch blade, full hollow ground, polished blade $30 00
No. B8—⅝ inch, round point... ..... 30.00

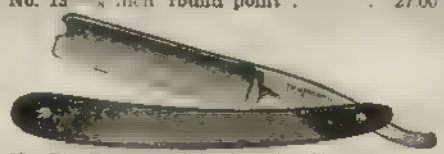
Premier Per dozen

No. 1346—Fancy metal, inlaid white celluloid handle, full hollow ground, full crocus polished, ⅝ inch.....$30 00

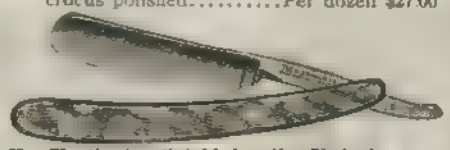


Premier Per dozen

No. 12—White celluloid handle, ⅝ inch blade, full hollow ground, polished [illegible] $27 00
No. 13—⅝ inch round point . . . 27 00



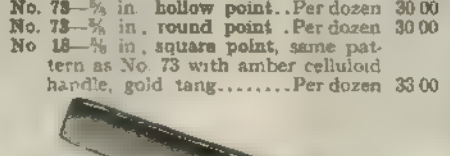
No. 71—Red celluloid handle, ⅝ inch blade, three-quarter concave, full crocus polished.....Per dozen $27 00



No. 72—Gold celluloid handle, ⅝ inch blade, three-quarter concave, full crocus polished.....Per dozen $27 00

Barbers' Special

No. 78—Black oval rubber handle, ⅝ in. blade, full hollow ground, polished blade . ...Per dozen $30.00
No. 73—½ in., square point..Per dozen 30 00
No. 78—⅝ in. hollow point..Per dozen 30 00
No. 73—⅝ in., round point .Per dozen 30 00
No 18—⅝ in., square point, same pattern as No. 73 with amber celluloid handle, gold tang.....Per dozen 33 00

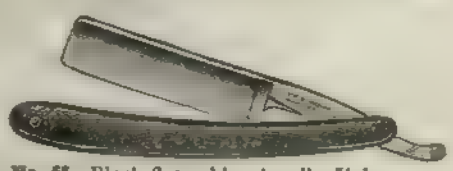


No. B2—Black flat rubber handle, ⅝ inch blade, three-quarter concave, polished blade .....Per dozen $21 00
No. B1—½ in., square point..Per dozen 21 00
No. B4—⅝ in., round point..Per dozen 21.00
All Above Half Dozen in a Box

No. B555—White oval celluloid handle, ⅝ in. blade, three-quarter concave, full crocus polished.....Per dozen $24 00

Per dozen

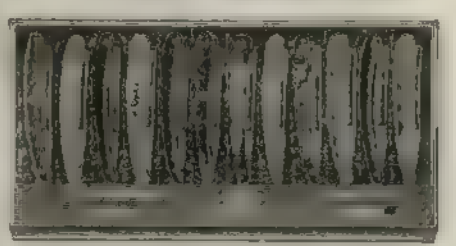
No. 38—White celluloid German silver tipped handle, ⅝ inch blade, three-quarter concave, polished blade....$27 00



No. 55—Black flat rubber handle, ⅝ in. blade, three-quarter concave, polished blade .....Per dozen $24 00
No. 55—⅝ in., round point..Per dozen 24 00

No. 1574—Black flat rubber handle, ⅝ inch blade, five-eighths concave, full crocus blade.....Per dozen $21 00
All Above Half Dozen in a Box

RAZOR ASSORTMENTS



No. 1200—Assortment, consists of twelve assorted razors, six black rubber and six fancy celluloid handles, assorted square, round and hollow points, ⅝ inch blades. Packed in a racked display case, green velvet lined, ranging in price from $2 00 to $2.50 each.....Per assortment $26.00

No. 900—Assortment, consists of twelve assorted razors, assorted handles and points, ranging in price from $1.50 to $2 00.....Per assortment 21 00

No. 750—Assortment, consists of twelve assorted razors, assorted handles and points, ranging in price from $1 25 to $1 50.....Per assortment 18 00
Each Assortment Packed in a Display Case

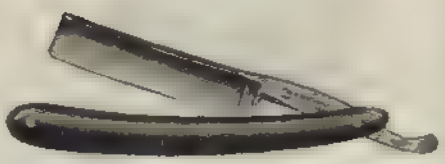
RAZORS AND RAZOR BLADES

Highest Grade Razor Steel Blade, Uniformly Tempered, Honed Ready for Use.

RAZORS

No. 102—Fancy black rubber handle, ⅝ in. blade, five-eighths concave, polished blade..... ....Per dozen $18.00

No. 0100—Fancy white celluloid handle, ⅝ inch blade, five-eighths concave, polished blade. . Per dozen $18.00



No. 867—Black oval rubber handle, ⅝ in. blade, five-eighths concave polished blade ..... Per dozen $15.00

No. 867—⅝ in., **round point** Per dozen 15.00

Per dozen

No. 87—White celluloid handle, ⅝ inch blade, half concave, glazed blade....$8.00

No. 4720—Black oval rubber handle, ⅝ ... blade, half concave, glazed blade .....Per dozen $8.00

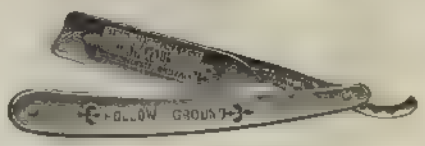
No. 4720—⅝ in., **round point**..Per dozen 8.00

No. 421—Black oval rubber handle, ⅝ inch blade, half concave, glazed blade .....Per dozen $8.00

No. 421—⅝ in., **round point**..Per dozen 8.00

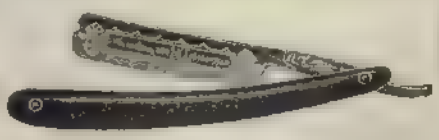
All Half Dozen in a Box

RAZORS



Wostenholm

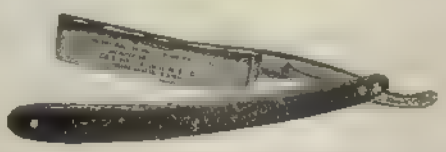
No. 01323—White celluloid handle, ⅝ in. blade etched, three-quarter concave, full crocus polished.....Per dozen $27.00



Per dozen

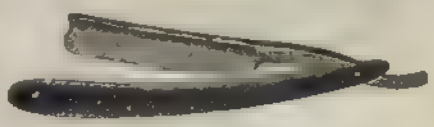
No. 01974—Black oval rubber handle, ⅝ inch blade, half concave, full crocus polish, etched in gold.....$18.00

No. 03492—Black oval rubber handle, ⅝ in. blade half concave, polished blade, etched in gold....Per dozen $18.00



No. 02363—Black oval rubber handle, ⅝ in. blade, half concave, polished blade .....Per dozen $17.00

No. 01724—Black oval rubber handle, ⅝ in. blade .....Per dozen $15.00



No. 01909—Black oval rubber handle, ⅝ in. blade.....Per dozen $14.00

Boker's Red Injun

No. 101—Black oval rubber handle, ⅝ in. blade, full hollow ground, polished blade .....Per dozen $36.00

No. 101—⅝ in., **round point**..Per dozen 36.00

All Half Dozen in a Box

CORN RAZORS

No. 1416B—Black rubber handle, crocus polished blade.....Per dozen $8.00

Half Dozen in a Box

No. 1416P—Pearl handle, crocus polished blade.....Per dozen $18.00

Half Dozen in a Box

RAZOR HANDLES

No. 1—Plain black rubber for ⅛ and ⅜ in. razors.....Per dozen $2.00

No. 2—Plain black rubber for ⅝ in. razors.....Per dozen 2.00

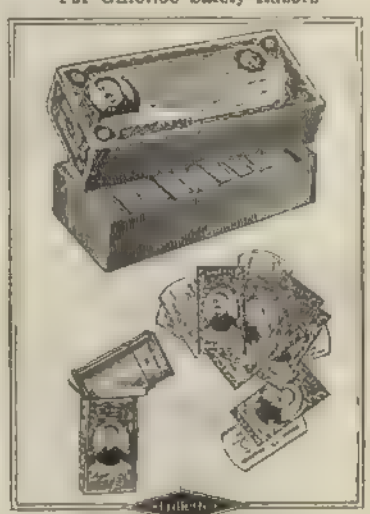
EXTRA BLADES FOR DURHAM DUPLEX RAZORS

Durham Duplex Blades—In packages of six blades.....Per set $0.50

Twelve Sets in a Box

EXTRA BLADES

For Gillettee Safety Razors



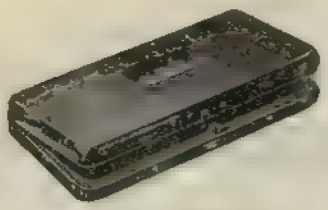
Gillette (new process) Blades

Sets of 12—Twelve blades with twenty-four cutting edges in a nickel plated case .....Per set $1.00

Sets of 6—Six blades with twelve cutting edges in a package....Per set .50

Ten Dozen in a Box

GILLETTE SAFETY RAZORS AND COMBINATION SETS



Pocket Edition

Basket pattern, metal case, velvet lined.

No. 501—Triple silver plated case and razor .....Each $5.00

No. 501B—Gold plated case and gold plated razor .....Each 6.00

Standard Razor

Leather case, velvet lined.

No. 460—Morocco case, triple plated razor .....Each $5.00

Standard Razor

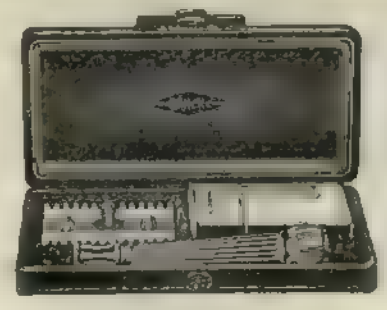
Metal case, velvet lined.

No. 460B—Nickel plated case, triple silver plated razor... .....Each $5.00

Bulldog Set

Oval case of gray antique leather, velvet lined. Blade boxes to match, containing 12 double edge blades. Triple silver plated razor. Stocky "Bulldog" handle. Heavier than the Gillette Standard—Extra generous in the grip and beautifully balanced

Bulldog set .....Each $5.00



Pocket Edition

Plain metal case, velvet lined

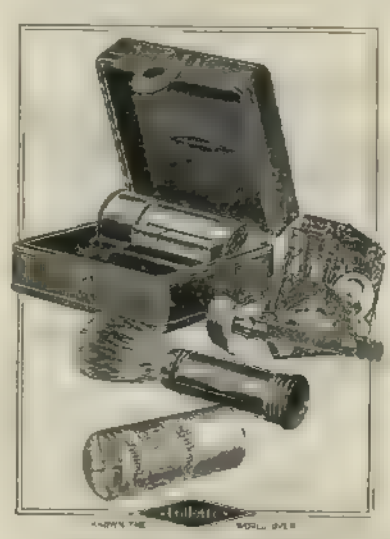
No. 500—Triple silver plated case and razor .....Each $5.00

No. 500B—Gold plated case and gold plated razor .....Each 6.00

Aristocrat Set

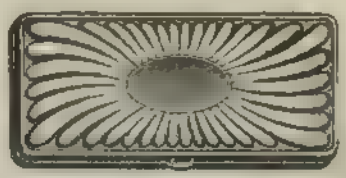
French ivory case, velvet lined, blade boxes to match, containing 12 double edge blades Triple silver razor.

Aristocrat .....Each $5.00



Combination Set

No. 461—Triple silver plated razor, metal box containing twelve double-edged blades, telescope pattern badger hair shaving brush, stick shaving soap in triple silver plated holder, velvet lined morocco leather covered case .....Each $6.00



Pocket Edition

Shell pattern, metal case, velvet lined.

No. 502—Triple silver plated case and razor .....Each $5.00

No. 502B—Gold plated case and gold plated razor .....Each

Standard Combination

No. 00—Triple silver plated razor, badger hair shaving brush and stick of shaving soap in triple silver plated holders, two metal blade boxes with twelve double-edged blades; all contained in seal leather case....Each $6.50

Combination

No. 422—Triple silver plated razor, fine quality badger hair shaving brush and stick of shaving soap in triple silver plated holders, two metal blade boxes with twelve double-edged blades, plate glass mirror, all contained in pigskin case. Each..... $9.00

Drills

Flat Beaded High Speed Bits

For Handlan and Paulus Track Drills

Fig. 124

Flat Track Drill with bead on both sides, made 9½ inches long over all

¾-inch	each	$
⅞-inch	each	
1-inch	each	
1⅛-inch	each	
1¼-inch	each	
1⅜-inch	each	
1½-inch	each	
1⅝-inch	each	
1¾-inch	each	
1⅞-inch	each	
2-inch	each	
2⅛-inch	each	
2¼-inch	each	
2⅜-inch	each	
2½-inch	each	
2⅝-inch	each	
2¾-inch	each	
2⅞-inch	each	
3-inch	each	

Flat Track Drill with bead on both sides for [illegible] Track Drill, 7 inches long over all

⅝-inch	each	$
¾-inch	each	
⅞-inch	each	
1-inch	each	
1⅛-inch	each	
1¼-inch	each	
1⅜-inch	each	
1½-inch	each	
1⅝-inch	each	
1¾-inch	each	
1⅞-inch	each	
2-inch	each	
2⅛-inch	each	
2¼-inch	each	
2⅜-inch	each	
2½-inch	each	
2⅝-inch	each	
2¾-inch	each	
2⅞-inch	each	
3-inch	each	

High Speed and Carbon Steel Bits

Fig. 12

For Handlan and Paulus Track Drill with Regular Spindle

Regular Mule Type Flat Drill of High Speed Steel, 6 inches long over all

[illegible]	each	$2 30
[illegible]	each	2 50
¾-inch	each	2 75
⅞-inch	each	3 00
1-inch	each	3 30
1⅛-inch	each	3 70
1¼-inch	each	4 10
1⅜-inch	each	4 50
1½-inch	each	5 00
1⅝-inch	each	5 50
1¾-inch	each	6 10
1⅞-inch	each	6 70
2-inch	each	7 40
2⅛-inch	each	8 00
2¼-inch	each	9 00

Regular Mule Type Flat Drill of Carbon Steel 6 inches long over all

¾-inch	each	$1 30
⅞-inch	each	1 50
1-inch	each	1 70
1⅛-inch	each	1 90
1¼-inch	each	2 10
1⅜-inch	each	2 30
1½-inch	each	2 50
1⅝-inch	each	2 70
1¾-inch	each	2 90
1⅞-inch	each	3 10
2-inch	each	3 30
2⅛-inch	each	3 50
2¼-inch	each	3 90
2⅜-inch	each	4 20
2½-inch	each	4 50

Steel Bits

For Beland, Champion, Underwood, Noble, Union Pacific

Fig. 128

Sizes	½"	⅝"	¾"	⅞"	1"	1⅛"	1¼"	1⅜"	1½"
Per dozen	$6 00	$6 00	$6 00	$6 00	$7 00	$7 00	$7 50	$7 50	$8 50	$9 00

Track Gauges

Circular Track Gauge

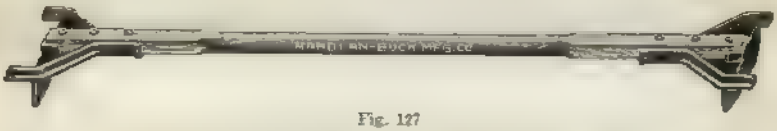


Fig. 127

Wood Bar, Non-Conducting, for Interlocking Systems

No. 7. Price.....each $2 50
Refined malleable iron heads, thoroughly bolted to wood bar Heavy, well seasoned hardwood bar

Huntington Track Gauge

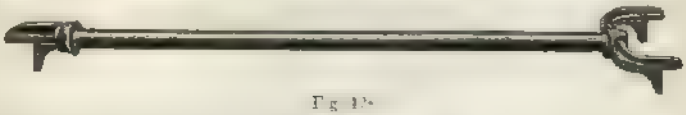


Fig. 12[illegible]

No 3 Huntington Standard Track Gauge each $2 00
No 3 Huntington Standard Track Gauge insulated each 3 50
Refined malleable iron heads Extra heavy tube fitted to heads and riveted

Circular Track Gauge
With Steel Tubular Bar

Fig. 129

No. 1 Price per dozen $30 00

Fig. 130

No. 2. Price.....per dozen $30 00
Refined malleable iron heads Extra heavy tube clinched and riveted to heads.

Track Gauges

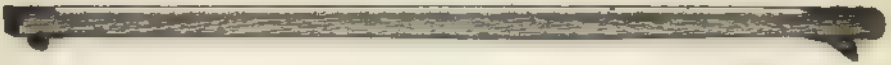


Fig. 131

No. 12. Track Gauge..... each $4.00

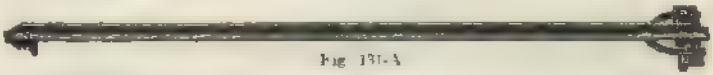


Fig. 131-A

No. 15. Master Track Gauge each $9.00

Fig. 132

No. 16 Track Gauge with Guard Railing, insulated each $4.00
No. 16 Track Gauge with Guard Railing, not insulated each 3.50

Track Levels

Fig. 133

No. 11 Track Level each $4.50

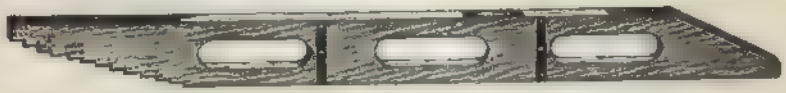


Fig. 134

No. 13. Level . . . . . each $7.50

Fig. 135

No. 14. Level..... each $7.50

Fig. 136

Traction Rail Level . . . . . each $7.50

Track Levels

Insulated Track Gauge and Level

Fig 137

No 4. Price, with level glass ..... each $3 50
No 5. Price, without level glass ..... each 3 00
Refined malleable iron ends, hard, well seasoned wood bar

Track Gauge and Level
Graduated

Fig 138

No 6. Price ..... each $6 00
Level glass protected by wrought handle heavy, well seasoned bar, with three coats of paint

Track Levels

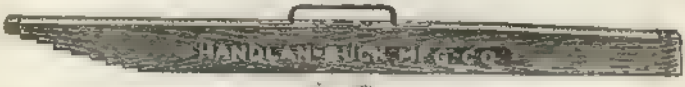


Fig 139

Made of best seasoned timber, well bound with hoop iron level glasses accurate and well set
No 8. Price ..... each $2 50

Fig. 140
Level Glass Adjustable
No. 9 Price ..... each $7 50

Fig 141
Level Glass Adjustable
No. 10. Price ..... each $10 00

Automatic Ground Throw Stand

Design No. 4

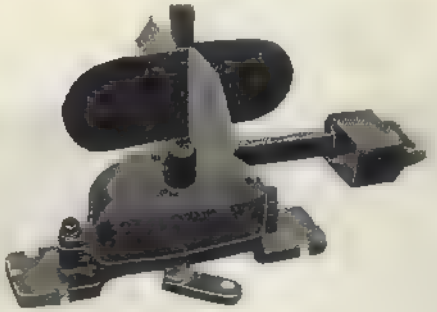


Fig 67

For yard purposes where target stand is desired, we recommend this pattern

Lever throws parallel to the track working parts are enclosed, therefore not affected by snow or dirt

When not locked is automatic

Fig 68

Plantation Switch Stands

Design No 2

Where a design of stand is desired for this light work, showing a medium high target same is shown by illustration.

Switch Stands

We illustrate various designs of switch stands covering needs of industrial tracks or standard lines.

Bearings are all bored, and shafts turned.

Connecting rods for all designs are forged from solid bar without welds

Our standard throw is 5-inches. Will furnish such throw as may be desired

Ground Throw Switch Stand with Target

Design No. 9

Fig. 69

Where a lower price target stand is desired, we offer this design. The target is set low for yard purposes

Fig. 70

Steel Forged Rail Brace

Design No. 3

Rail Braces

Forged from new steel plate and fitted for the section wanted

Design No. 3 shown is intended for rails from 30-pound to 70-pound rail

Design No. 4, with all spike holes enclosed, for rails from 75-pound upwards

The section of rail for which these braces may be wanted should always be given

Fig. 71

Main Line Switch Stand

Design No. 6

This design is to be used on two ties, and the shape makes it unusually strong

Ground Throw Switch Stand

Design No. 1

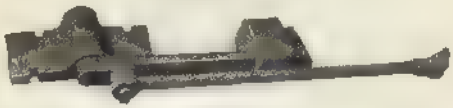


Fig. 72

All bearings are reamed shafts turned, making perfect fit of parts Lever is well weighted

Mine Switch Stand

Upright Lever, Parallel Throw (Automatic)

Design No. 21

Fig. 73

Where a stand is desired for operator to throw while car is in motion, this design is offered Car trailing through the switch set in wrong direction will throw switch over automatically Lever throws parallel, requiring but minimum space

Ground Throw Switch Stand

Design No. 3

Fig. 74

This design is intended for rails for 45-pound switches and upward Heavily weighted lever with handle grip

Solid Crossing 90°

Design No 2

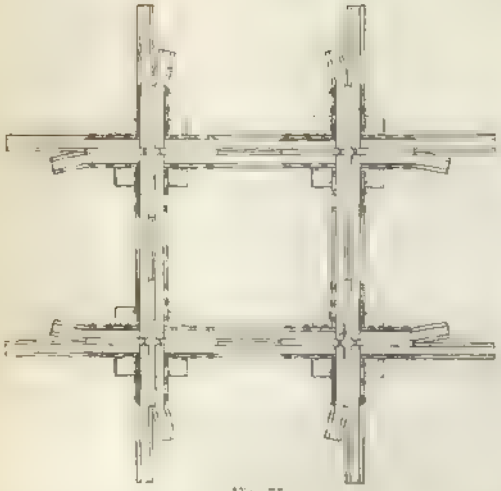


Fig. 75

Railroad Crossings

Design No 2

For all angles above 30 degrees, and for a crossing of medium price we offer the above design. Main and guard rails where heaviest traffic crosses are made continuous

Rolled steel filling, fitting accurately the stock and guard rails, heavily bolted, and fitted with nut lock and cotters; heavy corner straps at all intersections

Steel base plates furnished, when desired

No joint at centers, ends taken off to facilitate shipment

Switch Fixtures

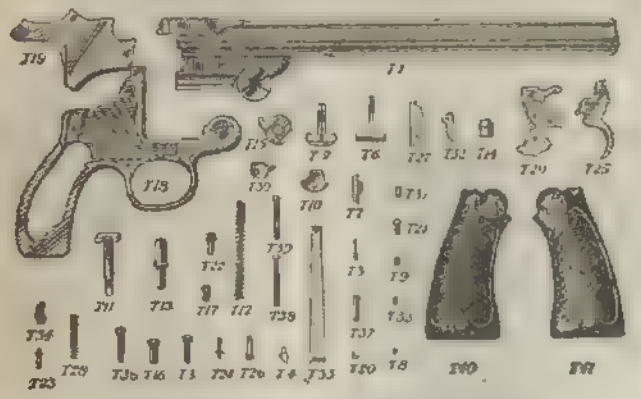
Fig. 76

When a stub switch is to be used, we show by illustration our standard riveted tie bars and head chairs.

With these, to form a complete set either the Ground Throw Designs 3 or 9, and the Main Line Stand, Design No 6, can be used

COMPONENT PARTS OF REVOLVERS

SMITH & WESSON SINGLE SHOT PISTOLS



22 PERFECTED SINGLE SHOT

Nos.	Each
T 1 Barrel, 10"	$17.20
T 2 Barrel Catch	2.80
T 3 Barrel Catch Screw	.12
T 4 Barrel Catch Cam	.48
T 5 Barrel Catch Cam Spring	.24
T 6 Barrel Catch Center Piece	1.50
T 7 Rear Sight Slide	.72
T 8 Elevating Screw	.12
T 9 Windage Screw	.12
T10 Front Sight	1.70
T11 Extractor	.72
T12 Extractor Spring	.24
T13 Extractor Post	.72
T14 Extractor Bushing	.36
T15 Extractor Cam	.48
T16 Joint Pivot	.24
T17 Joint Pivot Screw	.12
T18 Frame	10.20
T19 Side Plate	.84
T20 Large Head Plate Screw	.12
T21 Small Head Plate Screw	.12
T22 Hammer Stud	.36
T23 Trigger Stud	.36
T24 Rebound Slide Stud	.36
T25 Trigger	1.50
T26 Trigger Lever	.48
T27 Rebound Slide	1.50
T28 Trigger Spring	.48
— Rebound Slide Spring	.48
	Complete
T29 Hammer	$2.10
T30 Hammer Nose	.36
T31 Hammer Nose Rivet	2.40
	Each
T32 Sear	$0.72
T33 Sear Spring	.12
T34 Stirrup	.72
T35 Main Spring	.72
T36 Strain Screw	.12
T37 Stock Pin	.12
T38 Long Stock Screw	.12
T39 Short Stock Screw	.12
T40 Right Hand Stock (Wood only)	1.50
T41 Left Hand Stock	1.50

COLT REVOLVERS

NOTE.—When Ordering, Always Give Name of Model, Caliber and Number, Which Will be Found on the Butt or on that Part of the Frame Which is Shown When the Cylinder is Swung Out. Also Give Number and Name of Part Desired as Illustrated in the Following:

POCKET POSITIVE AND POLICE POSITIVE
32 CALIBER

Nos.	Each
1 Hammer, Complete	$3.50
2 Hammer Pin	.10
3 Hammer Stirrup	.40
4 Hammer Stirrup Pin	.10
5 Safety	.50
6 Safety Lever	.22
7 Strut	.50
8 Strut Spring	.10
9 Strut Pin	.10
10 Firing Pin	.40
11 Firing Pin Rivet	.10
12 Hand	.80
13 Main Spring	1.00
14 Crane	4.50
15 Crane Bushing	.22
16 Crane Lock	.50
17 Crane Lock Screw	.20
18 Latch	1.50
19 Latch Spring	.10
20 Latch Pin	.40
21 Trigger	1.20
22 Trigger Pin	$0.10
23 Ejector and Ratchet	1.60
24 Ejector Rod	.50
25 Ejector Rod Head	.40
26 Ejector Spring	.22
27 Bolt	1.00
28 Bolt Screw	.18
29 Rebound Lever	1.66
30 Rebound Lever Pin	.10
31 Stock Pin	.10
32 Stock Screw	.18
33 Side Plate Screw	.18
Frame and Side Plate	13.00
Side Plate	2.60
Cylinder	6.00
Bolt Spring	.10
Barrel 2½ or 3½ inches	8.50
Barrel 4 or 6 inches	4.90
Recoil Plate	.18
Stocks, per Pair	1.60
Escutcheons, per Set	.18

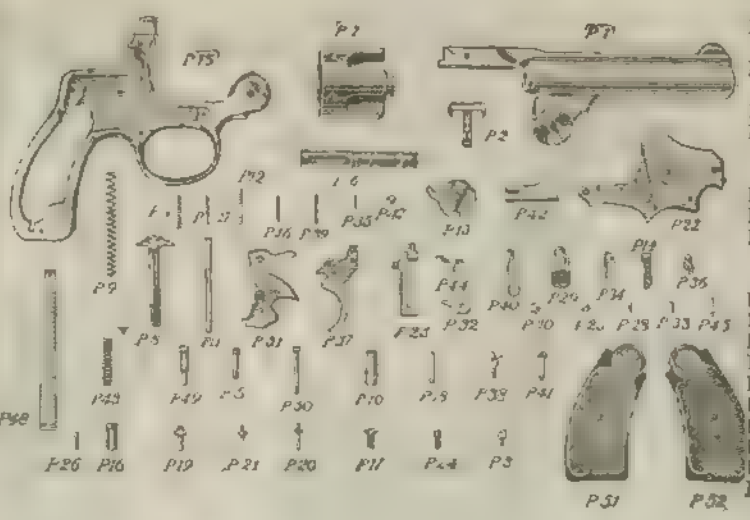
POLICE POSITIVE AND POLICE POSITIVE SPECIAL
38 CALIBER

Nos.	Each
1 Hammer, Complete	$3.50
2 Hammer Pin	.10
3 Hammer Stirrup	.50
4 Hammer Stirrup Pin	.10
5 Safety	.60
6 Safety Lever	.30
7 Strut	.00
8 Strut Spring	.20
9 Strut Pin	.10
10 Firing Pin	.40
11 Firing Pin Rivet	.10
12 Hand	.90
13 Main Spring	1.20
14 Crane	4.80
15 Crane Bushing	.24
16 Crane Lock	.50
17 Crane Lock Screw	.20
18 Latch	1.80
19 Latch Spring	.10
20 Latch Pin	.32
21 Trigger	1.40
22 Trigger Pin	$0.10
23 Ejector and Ratchet	1.70
24 Ejector Rod	.52
25 Ejector Rod Head	.32
26 Ejector Spring	.24
27 Bolt	1.00
28 Bolt Screw	.14
29 Rebound Lever	1.60
30 Rebound Lever Pin	.10
31 Stock Pin	.10
32 Stock Screw	.14
33 Side Plate Screw	.14
Frame and Side Plate	13.00
Side Plate	1.80
Cylinder	6.50
Bolt Spring	.10
Barrel	4.80
Recoil Plate	.16
Stocks, per Pair	1.60
Escutcheons, per Set	.16

COMPONENT PARTS OF SMITH & WESSON REVOLVERS

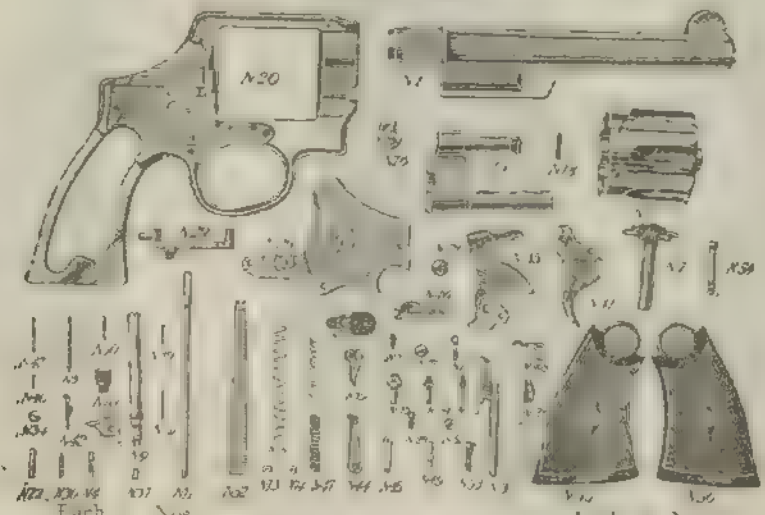
NOTE —Old Parts must always be Returned to us when Ordering Duplicates so no Mistake will be made, as a great many Changes and Improvements have been made in these Revolvers from Time to Time.

38 DOUBLE ACTION PERFECTED



Nos.		Each
P 1	Barrel	$10.50
P 2	Barrel Catch	1.60
P 3	Barrel Catch Cam	.48
P 4	Barrel Catch Cam Spring	.24
P 5	Barrel Catch Screw	.12
P 6	Base Pin	.72
P 7	Cylinder	5.40
P 8	Extractor	.72
P 9	Extractor Spring	.24
P10	Extractor Post	.72
P11	Center Pin	.36
P12	Center Pin Spring	.24
P13	Extractor Cam	.48
P14	Extractor Cam Catch	.36
P15	Frame	10.80
P16	Joint Pivot	.24
P17	Joint Pivot Screw	.12
P18	Stock Pin	.12
P19	Hammer Stud	.36
P20	Trigger Stud	.36
P21	Cylinder Stop Stud	.36
—	Rebound Slide Stud	.36
P22	Side Plate	.84
P23	Large Head Plate Screw	$0.12
P24	Small Head Plate Screw	.12
P25	Bolt fully Assembled	1.50
P29	Bolt Thumb Piece	.72
P30	Bolt Thumb Piece Nut	.72
P31	Hammer	2.10
P32	Hammer Nose	.36
P33	Hammer Nose Rivet	2.40
P34	Sear	$0.72
P35	Sear Spring	.12
P36	Stirrup	.72
P37	Trigger	1.50
P38	Hand Lever	.36
P39	Hand Lever Spring	.12
P40	Hand	.72
P41	Trigger Lever	.48
P42	Rebound Slide	1.50
P43	Trigger Spring	.48
—	Rebound Slide Spring	.48
P44	Cylinder Stop	$0.72
P45	Cylinder Stop Plunger	.12
P46	Cylinder Stop Spring	.12
P47	Cylinder Stop Screw	$0.12
P48	Main Spring	.72
P49	Strain Screw	.12
P50	Stock Screw	$0.12
P51	Right Hand Stock	.72
P52	Left Hand Stock	.72

44 HAND EJECTOR
MODEL 1908

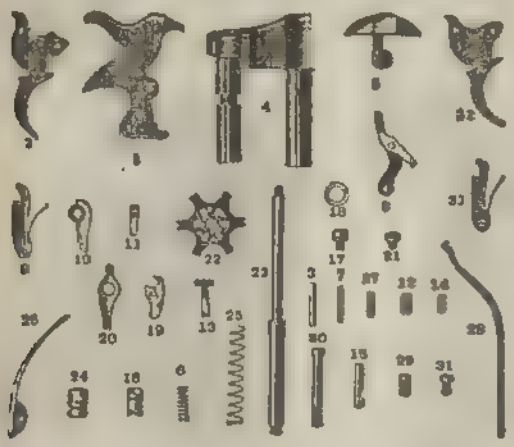


Nos.		Each
N 1	Barrel	$8.10
N 2	Barrel Pin	.12
N 3	Locking Bolt	.84
N 4	Locking Bolt Plungers	.24
N 5	Locking Bolt Spring	.24
N 6	Cylinder	7.80
N 7	Extractor	1.50
N 8	Extractor Spring	.36
N 9	Extractor Rod	.84
N10	Extractor Rod Knob	.48
N11	Center Pin	.84
N12	Center Pin Spring	.24
N13	Center Pin Washer	.12
N14	Center Pin Collar	.12
N15	Yoke	3.60
N16	Yoke Cam	1.50
N17	Yoke Cam Screw	.12
N18	Yoke Stop	.24
N19	Yoke Stop Spring	.12
N20	Frame	$17 20
N21	Front Sight	.48
N22	Stock Pin	.12
N23	Hammer Stud	.48
N24	Trigger Stud	.48
N25	Cylinder Stop Stud	.48
—	Rebound Slide Stud	.48
N26	Side Plate	1 50
N27	Large Head Plate Screw	.12
N28	Small Head Plate Screw	.12
N29	Bolt Fully Assembled	1.70
N33	Thumb Piece	.72
N34	Thumb Piece Nut	.24
N35	Hammer	$3 00
N36	Hammer Nose	15
N37	Hammer Nose Rivet	3.00
N38	Stirrup	$0 84
N39	Sear	.84
N40	Sear Spring	12
N41	Trigger	2.20
N42	Hand Lever	.48
N43	Hand Lever Spring	.24
N44	Hand	1.50
N45	Trigger Lever	.84
N46	Rebound Slide	1.70
N47	Trigger Spring	1.50
—	Rebound Slide Spring	1.50
N48	Cylinder Stop	.84
N49	Cylinder Stop Plunger	.24
N50	Cylinder Stop Spring	.12
N51	Cylinder Stop Screw	.12
N52	Main Spring	1 70
N53	Strain Screw	.12
N54	Stock Screw	.12
N55	Right Hand Stock, Wood Only	.96
N56	Left Hand Stock	96

COMPONENT PARTS OF COLT REVOLVERS

NOTE.—When Ordering Always Give Name of Model, Caliber and Number, Which Will Be Found on the Butt or on That Part of the Frame Which is Shown When the Cylinder is Swung Out; Also Give Number and Name of Part Desired, as Illustrated in the Following:

"NEW ARMY," "NEW NAVY," "MARINE CORPS" AND "OFFICERS MODEL" ★ OLD STYLE)



NOTE. These Parts are Suitable for all New Navy and New Army Revolvers Made, Excepting Nos. 32 and 33, which are Adapted to the First Model New Navy, Made without Cylinder Bolt or Automatic Safety Device. In Ordering Give Number of Part.

Nos.	Each
1 Hammer	$2 70
2 Trigger	1 10
3 Trigger Pin	.10
4 Crane	4 50
5 Latch	1 40
6 Latch Spring	.10
7 Latch Pin	.25
8 Rebound Lever	.85
9 Hand and Hand Spring	.65
Hand Spring	.10
10 Strut	.50
11 Strut Spring	.15
12 Strut Pin	.10
13 Hammer Stirrup	.40
14 Hammer Stirrup Pin	$0 10
15 Hammer Pin	.10
16 Crane Lock	.30
17 Crane Lock Screw	.15
18 Crane Bushing	.10
19 Bolt and Bolt Spring	.50
Bolt Spring	.10
20 Locking Lever	.20
21 Locking Lever Screw	.10
22 Ejector and Ratchet	1.40
23 Ejector Rod	.55
24 Ejector Rod Head	.30
25 Ejector Spring	.20
26 Rebound Spring	.65
27 Rebound Spring Pin	$0 10
28 Main Spring	.65
29 Main Spring Set Screw	.10
30 Stock Screw	.10
31 Side Plate Screw	.10
32 Trigger '89 Model	1.10
33 Hand and Hand Spring, '89 Model	.65

	Each
Barrel	$3.60
Cylinder	5.90
Swivel Ring	.10
Swivel Stud	.20
Swivel Complete	.40
Lock Frame	12 60

	Per Pair
Stocks	$1 40
Stocks for Marine Corps	4.30
	Each
Escutcheons	$0 10
Recoil Plate	.10
Side Plate	1.80

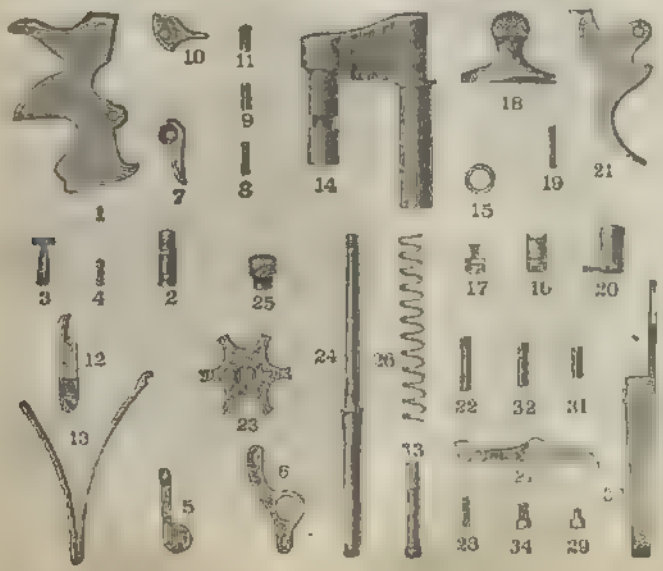
Extra Price Charged for Officers Model Parts

"ARMY SPECIAL" AND "OFFICERS MODEL" (NEW STYLE)

Nos.	Each
1 Hammer	$3.70
2 Hammer Pin	.10
3 Hammer Stirrup	.40
4 Hammer Stirrup Pin	.10
5 Safety	.50
6 Safety Lever	.20
7 Strut	.50
8 Strut Spring	15
9 Strut Pin	10
10 Firing Pin	.30
11 Firing Pin Rivet	.10
12 Hand	90
13 Main Spring	1.10
14 Crane	4 50
15 Crane Bushing	20
16 Crane Lock	50
17 Crane Lock Screw	15
18 Latch	1 50
19 Latch Spring	.10
20 Latch Pin	30
21 Trigger	$1 40
22 Trigger Pin	.10
23 Ejector and Ratchet	1.50
24 Ejector Rod	.65
25 Ejector Rod Head	.30
26 Ejector Spring	.20
27 Bolt	.90
28 Bolt Spring	.10
29 Bolt Screw	.10
30 Rebound Lever	1.50
31 Rebound Lever Pin	.10
32 Stock Pin	.10
33 Stock Screw	.10
34 Side Plate Screw	10
Frame and Side Plate	14 40
Side Plate	1.80
Cylinder	6.30
Barrel	4.50
Stock, per Pair	1.40
Escutcheons, per Set	.10
Recoil Plate, Each	.10

Extra Price Charged for Officers Model Parts

NEW SERVICE AND NEW SERVICE TARGET



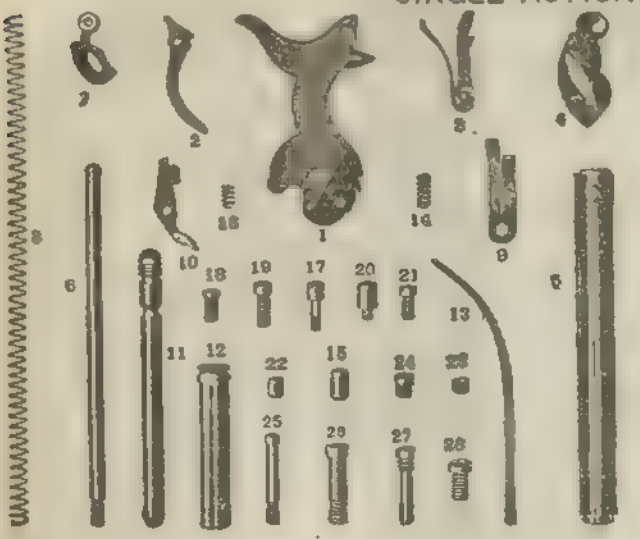
Nos.	Each
1 Hammer	$2 70
2 Hammer Pin	.10
3 Hammer Stirrup	.40
4 Hammer Stirrup Pin	.10
5 Safety	.50
6 Safety Lever	.20
7 Strut	.50
8 Strut Spring	.15
9 Strut Pin	.10
10 Firing Pin	30
11 Firing Pin Rivet	10
12 Hand	.30
13 Main Spring	1 30
14 Crane	5.40
15 Crane Bushing	.20
16 Crane Lock	.50
17 Crane Lock Screw	.15
18 Latch	1.80
19 Latch Spring	.10
20 Latch Pin	.30
21 Trigger	1 40
22 Trigger Pin	.10
23 Ejector and Ratchet	$1 60
24 Ejector Rod	85
25 Ejector Rod Head	30
26 Ejector Spring	.20
27 Bolt	.90
28 Bolt Spring	10
29 Bolt Screw	.20
30 Rebound Lever	1 60
31 Rebound Lever Pin	.10
32 Stock Pin	10
33 Stock Screw	10
34 Side Plate Screw	10
Cylinder	6 30
Barrel	5.10
Stocks, per Pair	1.40
Escutcheons, per Set	.10
Recoil Plate	.10
Swivel, Complete	.40
Swivel Pin	.10
Lock Frame	13 50
Side Plate	2.40

Extra Price Charged for New Service Target Parts

COMPONENT PARTS OF COLT REVOLVERS

NOTE.—When Ordering Always Give Name of Model, Caliber and Number Which Will be Found on the Butt or on That Part of the Frame Which is Shown When the Cylinder is Swung Out. Also Give Number and Name of Part Desired as Illustrated in the Following.

"SINGLE ACTION ARMY" AND "BISLEY MODEL"



SINGLE ACTION ARMY

Nos.		Each
1	Hammer	$1.60
2	Trigger	.40
3	Hand and Hand Spring	.50
	Hand Spring	.10
4	Gate	1.80
5	Ejector Tube	2.70
6	Ejector Rod	.50
7	Ejector Head	.90
8	Ejector Spring	.25
9	Sear and Bolt Spring	.20
10	Bolt	.55
11	Base Pin	.80
12	Base Pin Bushing	.75
13	Main Spring	.65
14	Gate Spring	.10
15	Base Pin Catch	10
16	Base Pin Catch Spring	.10
17	Base Pin Catch Screw	.10
18	Front Guard Screw	.10
19	Rear Guard Screw	.10
20	Ejector Tube Screw	.10

Nos.		Each
21	Back Strap Screw	$0.10
	Front Strap Screw	.10
22	Gate Catch	.10
23	Gate Catch Screw	.10
24	Sear and Bolt Spring Screw	.10
25	Stock Screw	.10
26	Hammer Screw	10
27	Trigger and Bolt Screw	10
28	Main Spring Screw	10
	Lock Frame	10 80
	Barrel	5.40
	Barrel Sight	.60
	Barrel Stud	.20
	Cylinder	5.40
	Firing Pin	.20
	Trigger Guard	3 00
	Back Strap	2 30
	Stocks, per Pair	1 40
	Escutcheons, per Set	.10
	Recoil Plate	.10
	Firing Pin Rivet	.10

For Prices of Bisley Parts which are Different from Corresponding Parts of Single Action Army, See Below. All Other Parts Same as of Single Action Army. In Ordering Give Number of Part.

PARTS OF COLT BISLEY MODEL REVOLVER

The Following Parts are Different from the Corresponding Parts in the Single Action Army

	Each		Each		Each		Each
Hammer	$1 80	Main Spring	$0 90	Stocks, per Pair	$1.40	Trigger Guard	$3 00
Hammer Stirrup	50	Mainspring Hand Spring	55	Lock Frame	10 80	Back Strap	2 30
Trigger	.75	Hand Spring	.10				

COMPONENT PARTS OF COLT AUTOMATIC PISTOLS

NOTE.—When Ordering Always Give Name of Model, Caliber and Number of Arm; Also Give Number and Name of Part Desired as Illustrated in the Following:

AUTOMATIC POCKET MODEL, .25 CALIBER

Nos.		Each
1	Receiver	$13 50
2	Barrel	5 00
3	Slide	2 30
4	Extractor	40
5	Extractor Spring	10
6	Extractor Pin	10
7	Locking Lug	90
8	Main Spring	.20
9	Main Spring Guide	.20
10	Trigger	.50
11	Connector	.90
12	Trigger Pin	.10
13	Sear Stop Pin	.10
14	Sear	.55

Nos.		Each
15	Sear, Safety, Trigger and Magazine Catch Spring	$0 30
16	Slide Lock Safety	85
17	Grip Safety	1 10
18	Grip Safety Pin	.10
19	Sear Pin	.10
20	Retractor Spring	20
21	Retractor Spring Guide	25
22	Magazine Catch	.50
23	Magazine, Complete	.90
24	Magazine Spring	.30
25	Magazine Follower	.10
26	Stocks, per Pair	1.40
27	Stock Screw	.10
	Escutcheons	.10

AUTOMATIC, "POCKET MODEL," .32 AND .380 CALIBER

Nos.		Each
1	Receiver .32 Caliber	$15 30
	Receiver .380 Caliber	18.00
2	Barrel	3 60
3	Slide	5 40
4	Firing Pin	25
4A	Rear Firing Pin	.20
5	Firing Pin Spring	.10
6	Rear Sight	.40
7	Firing Pin Lock Pin	.10
8	Shell Extractor	.40
9	Shell Extractor Spring	.10
10	Shell Extractor Pin	.10
11	Barrel Lock	.90
12	Hammer	.65
13	Side Lock Safety	.75
14	Hammer Roll	.10
15	Hammer Roll Pin	.10
16	Trigger	1.40
17	Sear	65
18	Safety	.75
19	Sear and Safety Pin	.10
20	Sear, Safety and Trigger Spring	.30

Nos.		Each
21	Main Spring	$0 75
22	Plug	.25
23	Plug Pin	.10
24	Ejector	90
25	Ejector Pin	.10
26	Retractor Spring	20
27	Retractor Spring Guide	30
28	Automatic Grip Safety	1 40
29	Automatic Safety Pin	10
30	Magazine Catch	.50
31	Magazine, Complete with Follower and Spring, 32 Caliber	1 20
	.380 Caliber	1 40
32	Magazine Follower	10
33	Magazine Spring .32 Cal.	.40
	Magazine Spring .380 Cal.	.55
34	Stocks, per Pair	1.40
35	Stock Screw	.10
	Escutcheons, per Set	.10
	Slide Lock Safety Screw	.10
	Front Sight	.20

Loose

HEAVY WEIGHT
SECTIONAL PLATE
ON STAPLE PIECES

TRADE-MARK
ROGERS

WM ROGERS MFG CO
INTERNATIONAL SILVER CO.
SUCCESSOR

Silver plated flatware stamped ROGERS is heavily silver plated on the finest quality nickel silver base All Tea, Dessert and Table Spoons, Dessert and Medium Forks stamped "ROGERS XII" are plated XII or Sectional Plate on parts most exposed to wear, and are guaranteed by the manufacturer, as they have been for more than fifty years, to give perfect satisfaction.

VIRGINIA PATTERN

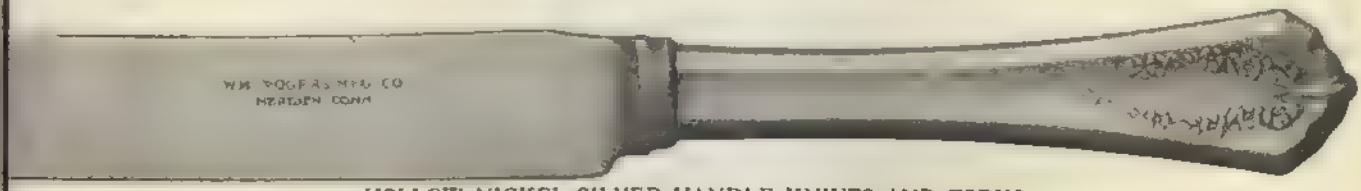
Platinum Finish

SPOONS

		Sectional or XII Plate
No. 6379	Tea, packed 12 in unlined box, per dozen	$ 7 15
No 6380	Dessert, packed 12 in unlined box, per dozen	12 75
No. 6381	Table, packed 12 in unlined box, per dozen	14 30

FLAT HANDLE FORKS

No. 6382	Medium, Sectional or XII Plate, packed 12 in unlined box, per dozen	$14 30
No. 6383	Dessert, Sectional or XII Plate, packed 12 in unlined box, per dozen	12 75



HOLLOW NICKEL SILVER HANDLE KNIVES AND FORKS

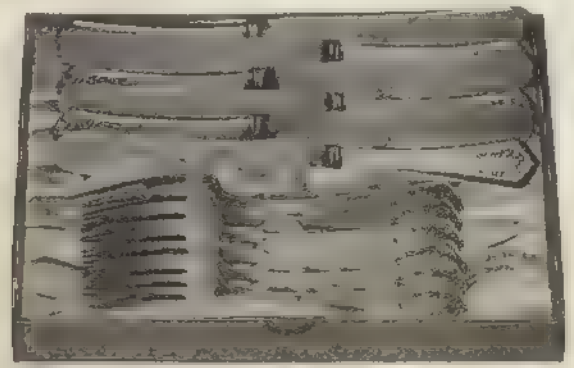
Heavy Silver Plate. Trade Mark, Wm. Rogers Mfg. Co.

No. 6384	Medium, packed one-half dozen in lined box, per dozen	$28.30
No. 6385	Dessert, packed one-half dozen in lined box, per dozen	26.65

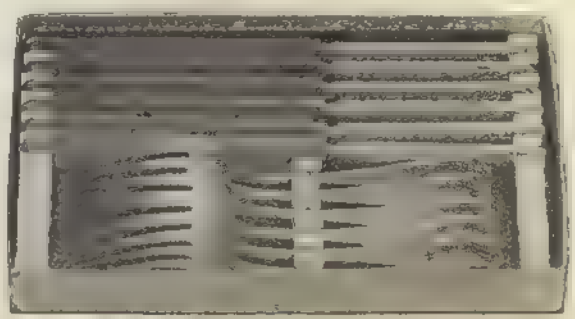
SOLID HANDLE STEEL KNIVES AND NICKEL SILVER FORKS

No 6386	Medium, 12 dwt., packed one-half dozen in box, per dozen	$10 00
No 6387	Dessert, Triple Plate, packed one-half dozen in box, per dozen	9.65

Illustrations actual size



No. 6388 Set, in lined paper case, set... $21 30
6 Hollow Handle Medium Knives and 6 Flat Handle Medium Forks
No. 6389 Set, same with Dessert Knives and Forks set 19 70



6390 Set, fancy in unlined box set $12 10
6 Solid Handle Medium Knives, Virginia Pattern and 6 Flat Handle Medium Forks, Virginia Pattern

Illustration sets about one-third size

HEAVY WEIGHT
SECTIONAL PLATE
ON STAPLE PIECES

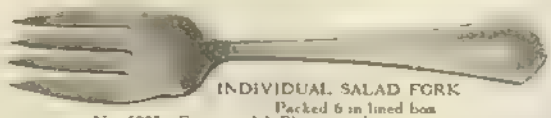
ROGERS

WM. ROGERS MFG. CO.
INTERNATIONAL SILVER CO.
SUCCESSOR

VIRGINIA PATTERN

PLATINUM FINISH

ORANGE SPOON
Packed 6 in lined box
No. 6391 Extra or AA Plate, per dozen $9.00

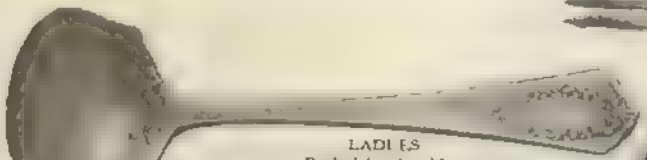


INDIVIDUAL SALAD FORK
Packed 6 in lined box
No. 6393 Extra or AA Plate, per doz . $14.25

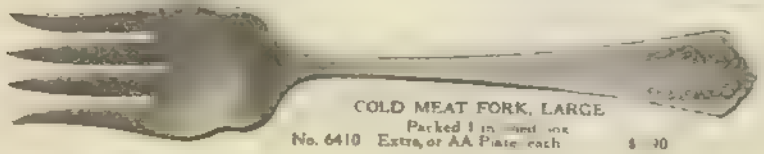
SUGAR SHELL
Extra or AA Plate
No. 6395 Packed 1 in lined box, per dozen $15.75
No. 6396 Butter Knife and Sugar Shell in lined box, set 2.75

BUTTER KNIFE, TWIST HANDLE
Extra or AA Plate
No. 6399 Packed 1 in lined box, per dozen $18.00

OYSTER FORK
Packed 6 in lined box
No. 6402 Extra or AA Plate, per dozen $9.50



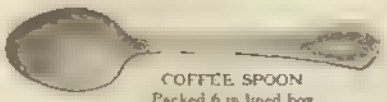
LADIES
Packed 1 in lined box
No. 6405 Cream, Extra or AA Plate, each $1.70
No. 6406 Gravy, Extra or AA Plate, each 2.25
No. 6407 Oyster, Extra or AA Plate, each 4.90
No. 6408 Soup, Medium, Extra or AA Plate, each 6.00



COLD MEAT FORK, LARGE
Packed 1 in lined box
No. 6410 Extra or AA Plate, each $4.90

BERRY SPOON
Packed 1 in lined box
No. 6412 Extra or AA Plate, each $3.90

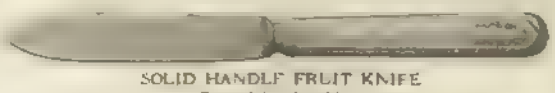
SUGAR TONGS
Packed 1 in lined box
Extra or AA Plate
No. 6397 Each $2.25



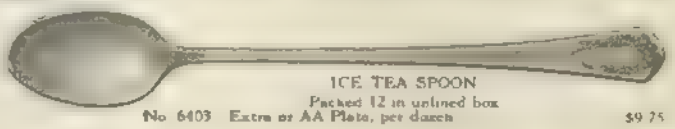
COFFEE SPOON
Packed 6 in lined box
No. 6392 Extra or AA Plate, per doz $7.05

BUTTER SPREADER
Packed 6 in lined box
No. 6394 Extra AA Plate, per dozen . $12.75

BOUILLON SPOON
Packed 6 in lined box
No. 6398 Extra or AA Plate, per dozen $13.50



SOLID HANDLE FRUIT KNIFE
Packed 6 in lined box
No. 6400 Solid Steel, Triple Plated, per dozen $8.25
No. 6401 Solid Steel, Triple Plated, plain, per dozen.. 7.95

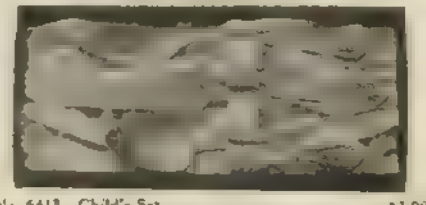


ICE TEA SPOON
Packed 12 in unlined box
No. 6403 Extra or AA Plate, per dozen $9.75

PICKLE FORK, LONG HANDLE
Extra or AA Plate
No. 6404 Packed 1 in lined box, each $1.70

SOUP SPOON
Packed 6 in lined box
No. 6409 Extra or AA Plate, per dozen $15.75

No. 6411 Baby Set $1.90
Flat Handle Baby Spoon, and Flat Handle Baby Fork, in lined box



No. 6413 Child's Set $3.00
Three pieces packed in lined box
Fancy Handle Knife Extra or AA Plate
Illustration sets about one-third actual size

Illustrations one-half size

TRADE-MARK

ROGERS

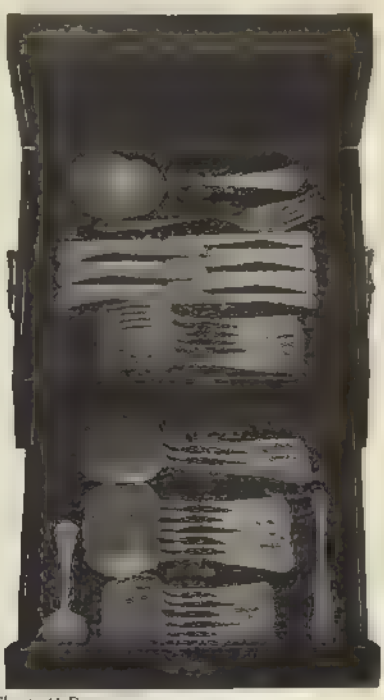
HEAVY WEIGHT
SECTIONAL PLATE
ON STAPLE PIECES

WM ROGERS MFG. CO
INTERNATIONAL SILVER CO.
SUCCESSOR

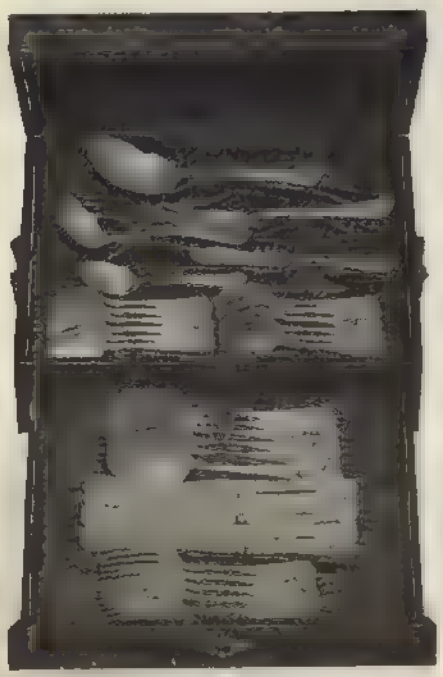
VIRGINIA PATTERN

PLATINUM FINISH

No. 6414 Chest, 26 Pieces $31.85
Quartered Oak Chest with Drawer, Name Plate on cover Green Satin Lined. Contains 6 Tea Spoons, 6 Table Spoons, 6 Medium Knives, Solid Handles, Triple Plated, 6 Medium Forks, 1 Butter Knife, 1 Sugar Shell
No. 6415 Chest, same as above with Hollow Handle Knives..... $41.45



No. 6416 Chest, 51 Pieces $47.15
Quartered Oak Chest with Handles, Drawer and Lock Green Satin Lined. Contains 6 Tea Spoons, 6 Dessert Spoons, 3 Table Spoons, 6 Medium Forks, 6 Medium Knives, Solid Handles, Triple Plated, 1 Berry Spoon, 1 Cold Meat Fork 1 Butter Knife 1 Sugar Shell
No. 6417 Chest same as above with Hollow Handle Knives $56.75



No. 6418 Chest, 35 Pieces.....$60.50
Quartered Oak Chest with Handles, Drawer and Lock Green Satin Lined Contains 12 Tea Spoons, 6 Table Spoons, 6 Medium Knives, Hollow Handles, Triple Plated, 6 Medium Forks, 1 Berry Spoon, 1 Cold Meat Fork, 1 Gravy Ladle, 1 Butter Knife, 1 Sugar Shell
No. 6419 Chest, same as above with Solid Handle Knives . . . $50.90

No. 6420 Chest, 30 Pieces. $55.50
Quartered Oak Chest with Handles. Two Drawers Green Satin Lined Contains 6 Tea Spoons, 6 Table Spoons, 6 Medium Knives Hollow Handles, Triple Plated, 6 Medium Forks, 1 Berry Spoon 1 Cold Meat Fork, 1 Gravy Ladle, 1 Cream Ladle, 1 Butter Knife, 1 Sugar Shell
No. 6421 Chest, same as above with Solid Handle Knives $45.90

Illustrations about one-fifth actual size.

TRADE MARK

WM. ROGERS & SON

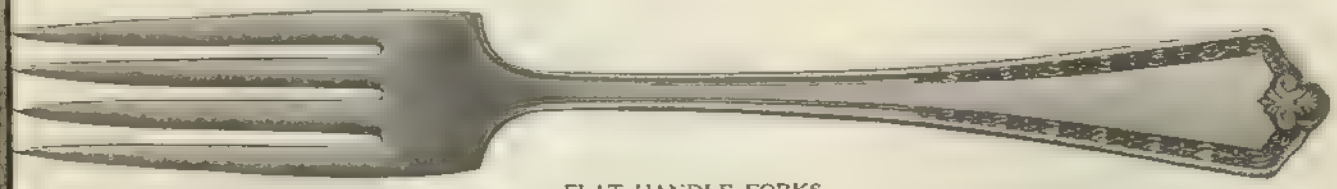
Every article of silver plated flatware bearing the above trade mark is extra heavily plated with pure silver on the highest grade nickel silver base, and is guaranteed by the manufacturers to give perfect satisfaction.

HAMPDEN PATTERN

Platinum Finish

SPOONS

No. 6422	Tea, Extra or AA Plate, packed 12 in unlined box, per dozen	$ 4 35
No. 6423	Dessert, Extra or AA Plate, packed 12 in unlined box, per dozen	8.00
No. 6424	Table, Extra or AA Plate, packed 12 in unlined box, per dozen	8 70

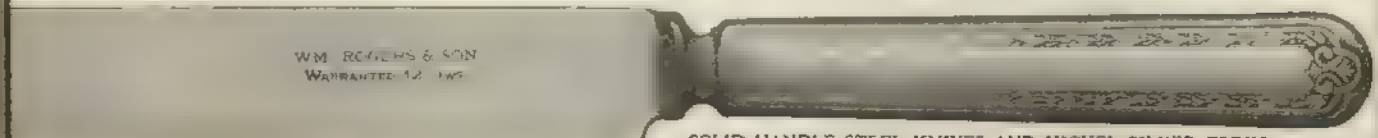


FLAT HANDLE FORKS

No. 6425	Medium, Extra or AA Plate, packed 12 in unlined box, per dozen	$ 8 70
No. 6426	Dessert, Extra or AA Plate, packed 12 in unlined box, per dozen	8 00

HOLLOW NICKEL SILVER HANDLE KNIVES AND FORKS

No. 6427	Medium, packed one half dozen in lined box, per dozen	$25 05
No. 6428	Dessert, packed one-half dozen in lined box, per dozen	23 35



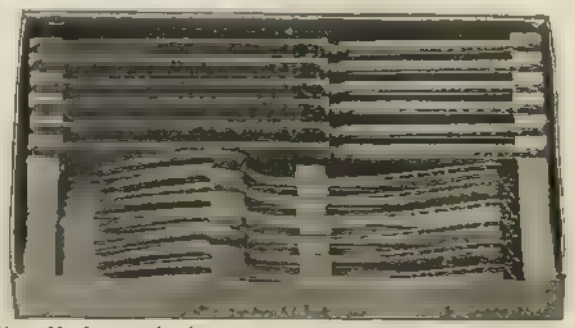
Illustrations actual size

SOLID HANDLE STEEL KNIVES AND NICKEL SILVER FORKS

Packed 6 in box, or 6 Knives and Forks in combination box

No. 6429	Medium, Triple Plated, per dozen	$9 05
No. 6430	Dessert, Triple Plated per dozen	8 75

No. 6431 Set, in lined paper case, set $16 85
6 Hollow Handle Medium Knives and 6 Flat Handle Medium Forks
No. 6432 Set, same with Dessert Knives and Forks, set 15 70



No. 6433 Set, in unlined box, set $8 85
6 Solid Handle Medium Knives, Triple Plated, and 6 Flat Handle Medium Forks Extra or AA Plate
No. 6434 Set, same with Dessert Knives and Forks, set.. 8 40

Illustration sets about one-third actual size

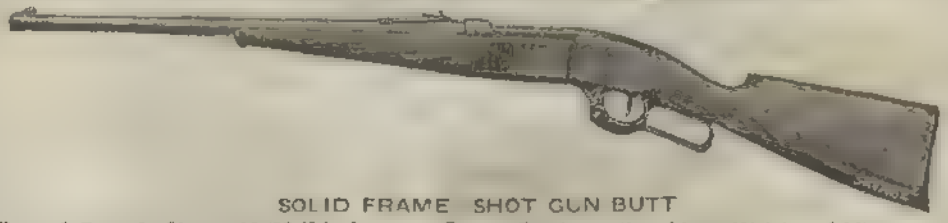
REPEATING RIFLES

SAVAGE

MODEL 1899—SPORTING

26 Inch Barrel; Hammerless; Plain Trigger; Blued Frame; 6 Shots

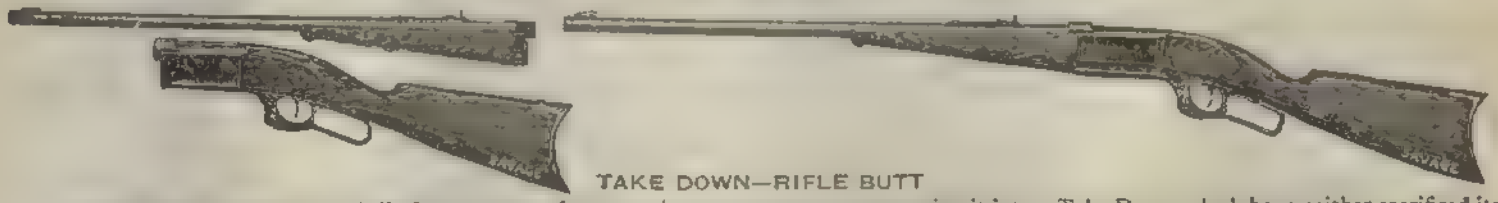
Construction is simple and always reliable. Special "Hi Pressure" Steel Barrel. Automatic revolving interlocking magazine in which the cartridges lie side by side, groove pulled to the grain of the wood; safety device is so placed that it does not necessitate unnecessarily changing, as it is the case with tubular form of magazine. Has hammer interlocker and positive safety locks both firing mechanism and lever.



SOLID FRAME SHOT GUN BUTT

	Each
No. S13030— 30 Caliber; Round Barrel; Shoots 30 30 Winchester or Savage Smokeless Cartridges; Weight 7½ lbs	$43 20
No. S1303 303 Caliber; Round Barrel, Shoots 303 Savage Smokeless Cartridges; Weight 7½ lbs.	43.20

One in a Box



TAKE DOWN—RIFLE BUTT

Contains same features as the Solid Frame except for a few changes necessary in converting it into a Take Down, which have neither sacrificed its Strength nor Durability.

NOTE.—We Cannot Furnish this Rifle in any Other but Round Barrel. It has a Very Simple Take Down Arrangement; Can be Taken Down as Readily as a Shotgun. When the Rifle is Assembled and the Fore-end in place, the Barrel and Receiver are Locked Securely Together.

	Each
No. S3030TD—30 Caliber; Shoots 30 Winchester or Savage Smokeless Cartridges; Weight 7½ lbs.	$50 40
No. S303TD —303 Caliber; Shoots 303 Savage Smokeless Cartridges; Weight 7½ lbs.	50.40

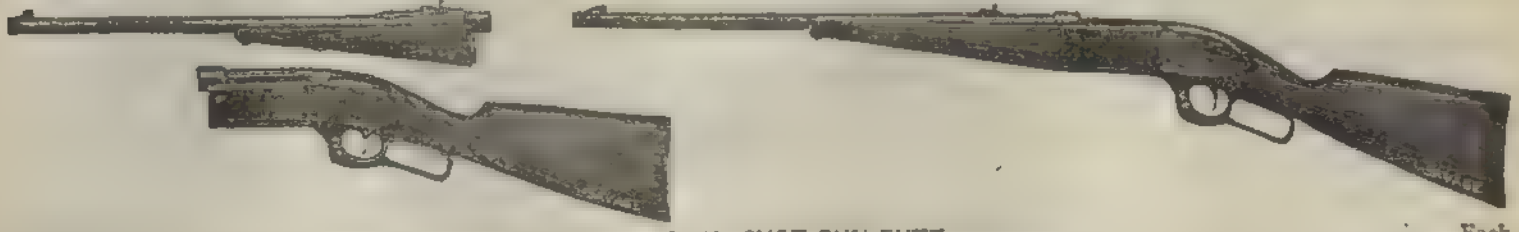
One in a Box

MODEL 1899—"FEATHERWEIGHT"

20 Inch Barrel; Hammerless; Plain Trigger; Blued Frame; Six Shots.

This is the lightest High Power Rifle made, and is built on the action of the regular Model 1899. Equipped with a "High Pressure" Steel Barrel beautifully tapered and fulldwed Shot Gun Butt Stock, it has neither destroyed its balance nor sacrificed its strength.

Shot Gun Stock with Rubber Butt Plate, Metal Bead Front Sight Brazed on the Barrel, and Savage Sporting Rear Sight. Absolute Perfect Balance



TAKE DOWN SHOT GUN BUTT

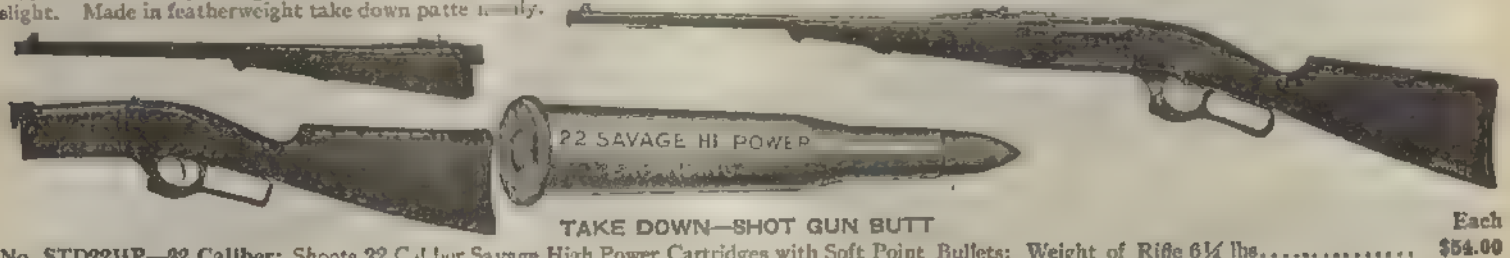
	Each
No. STD3030FW — 30 Caliber; Shoots 30/30 Winchester or Savage Smokeless Cartridges; Weight 6¼ lbs.	$54 00
No. STD303FW —303 Caliber; Shoots 303 Savage Smokeless Cartridges; Weight 6¼ lbs.	54.00

One in a Box

MODEL 1899—22 CALIBER HI POWER RIFLE

20 inch Round Tapered "Hi Pressure" Steel Barrel; Plain Trigger; Blued Frame; American Walnut Shot Gun Butt Stock with Rubber Butt Plate; Metal Bead Front Sight Brazed on the Barrel and Savage Micrometer Rear Sight, Absolute Perfect Balance

This is the latest development of the High Power Sporting Arm. Its velocity, 2800 feet per second, is higher than that of the United States Service Rifle. Accuracy is so great that it has made 25 consecutive bulls in the 2 inch circle at 500 yards. Striking energy is 1206 foot pounds. Record very slight. Made in featherweight take down pattern only.



TAKE DOWN—SHOT GUN BUTT

	Each
No. STD22HP—22 Caliber; Shoots 22 Caliber Savage High Power Cartridges with Soft Point Bullets; Weight of Rifle 6¼ lbs.	$54.00

One in a Box

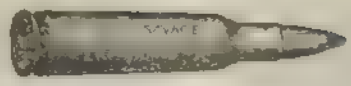
NOTE This Rifle can only be furnished as specified above; Longer Barrels or Fancy Walnut Stocks cannot be supplied; Neither can Interchangeable Barrels be furnished to Fit Model 1899 Featherweight Take Down.

Velocity, 2800 feet per Second.
Weight of bullet, 70 grains
Diameter of bullet, .228 in.
Depth of groove, .003 in.
Width of groove, .016 in.
Number of grooves, 6
Twist of Rifling one turn in 12 in.

Write for Prices on Fancy Rifles or Rifles with Longer Barrels, etc.

REPEATING RIFLES

SAVAGE



NEW 250-3000 SAVAGE—MODEL 1899

23 inch Round Tapered Barrel; Blue Frame; Checked Trigger; American Walnut Pistol Grip Stock and Forearm, Extra Full Checked; Integral Front Sight Base; Wind Gauge Rear Sight; Corrugated Steel Butt Plate; Absolute perfect Balanced and Accuracy.

This Rifle is chambered for the new Savage High Power .25 Caliber Hi-Velocity Bullet, Higher Velocity, Flatter Trajectory, Larger Range and Greater Killing Power.

Its Velocity 3000 Feet per Second is 300 Feet Higher than that of the New Springfield U. S. Army Rifle.

The Actual Killing Power of the 87 Grain 25 Caliber Soft Nose Spitzer Point Bullet Driven at 3000 Feet per Second is 1739 Foot Pounds, this will more than Equal any possible Requirements of the American Big Game Hunter.

TAKE DOWN; SOLID BREECH; HAMMERLESS; SIX SHOTS — Each

No. S250TD—25 Caliber; Shoots 250-3000 Savage Smokeless Cartridges; Weight 7 lbs. **$57 60**

One in a Box

MODEL 1899—CARBINE

20 inch Barrel; Hammerless; Plain Trigger; Blued Frame; 6 Shots.

Special Carbine Barrel, Always Reliable. This Gun is fitted with Special Sporting Sights, Sporting Stock, Pistol Grip and Checked Forearm, a Special Short Hammerless, Lightweight Gun. Regulation Carbine Butt Plate, Ring and Stud on Receiver; Special "Hi Pressure" Steel Barrel with Bead Front Sight Brazed on the Barrel and Savage Sporting Rear Sight.

Each

No. S1303C—303 Caliber, Shoots 303 Savage Smokeless Cartridges, Weight 7½ lbs. **$43.20**

One in a Box

MODEL 1903—HAMMERLESS

24 inch Octagon Barrel; Pistol Grip Stock; Plain, Steel Butt Plate.

This .22 Caliber Model is a Hammerless Take Down, shooting the three lengths of Cartridges without adjustment. Equipped with a positive safety, conveniently located to operate with the Thumb of the firing Hand. Direct feed of Cartridges from Magazine to Chamber prevents jams and dislodgment of Bullet in Shell. This insures Accuracy. Supplied with two Magazines.

TAKE DOWN—RIFLE BUTT — Each

No. S22—22 Caliber; Shoots 22 S.R.L., 22 L.R.F., and 22 Long Rifle Cartridges, 6 Shots, Weight 5 lbs. Two Magazines Accompany each Rifle. **$23 04**

Ten in a Case

EXTRA MAGAZINES

These Magazines are Made with an Automatic Stop which Prevents Empty Cartridge Shells from Jamming when the Cartridges are Exhausted. Each

No. EM—Extra Magazines, for No. S22 Rifle **$0 80**

MODEL 1911—BOLT ACTION

20 inch Barrel; Hammerless; Plain American Walnut Straight Grip Stock; Shot Gun Style Steel Butt Plates

Loads Automatically and Ejects Perfectly, after Inserting Magazine with Cartridges. Cartridges Fed Direct from Magazine to Chamber. Automatically Cocks the Rifle. The Opening of the Breech Automatically Ejects the Shell. The Safety Bolt Stop makes Shooting safe and Easy to Operate; will Stand Wear and Weather. The Barrel is Especially Chambered to Shoot Short Cartridges Perfectly and has Extreme Accuracy.

Cut Shows Method of Transferring Cartridges from Loading Tube to Magazine

TAKE DOWN—
SHOT GUN BUTT

Each

No. S1122—22 Caliber; Shoots 22 S. R. L. Cartridges Only, 20 Shots, Weight 4 lbs. **$12 00**

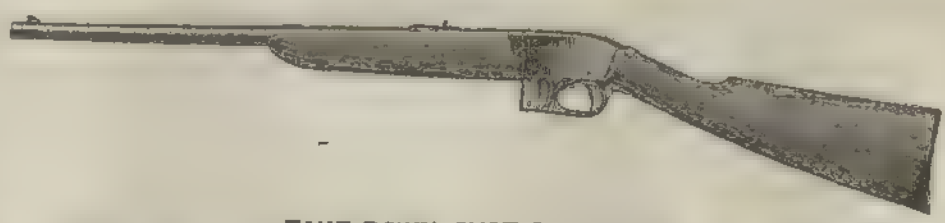
One in a Box

REPEATING RIFLES

SAVAGE

MODEL 1912—AUTOMATIC

20 inch Round Barrel; Hammerless; Plain Trigger; Straight American Walnut Stock; Blued Steel Butt Plate; Blued Frame and Mountings; Six Shots.



TAKE DOWN, SHOT GUN BUTT

Simple in Construction and Always Reliable. Equipped with Solid Top, Thereby Insuring Absolute Safety to the User, the Ejection Being from the Side and away from the Shooter. It is Provided with an Excellent Safety Device which when on Positively Locks the Firing Mechanism, Placing it at all times absolutely under the Control of the Shooter. The barrel is Especially Chambered to Shoot U. M. C., U. S. and Winchester 22 Long Rifle Lesmok and Semi-Smokeless Cartridges only. Fitted with Adjustable Sporting Rear Sight and Metal Bead Front Sight

No. S22A 22 Caliber; Shoots U. M. C., U. S. and Winchester 22 Long Rifle Lesmok and Semi-Smokeless Cartridges only; Weight 4½ lbs. Two Magazines supplied with each Rifle. **$21.60**

One in a Box

No. EM—Extra Magazines for No. S22A Rifle. . . . . **.58**

SINGLE SHOT RIFLES

SAVAGE

MODEL 1904 "JUNIOR" TAKE DOWN

18 inch Round Barrel; Straight Grip American Walnut Stock; Shotgun Butt.

The Loading Feature of this Rifle is Easy and Simple. Simply Drop a Cartridge into the Receiver and Close the Arm. This Automatically Cocks the Rifle. After Cartridge has been Fired the Opening Movement Again Automatically Ejects the Empty Shell.

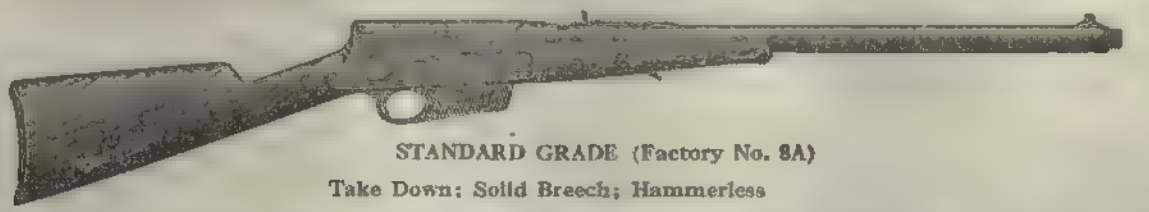
Designed after the Latest Military Bolt Action Rifles. Shoots three Lengths of Cartridges in the Same Chamber. Is a Hammerless, Take Down Single Shot. **Loads Easier and Ejects Quicker than any other Rifle Sold at the Same Figure.**

	Each
No. S22JR —22 Caliber; Shoots 22 SRF, 22 LRF and 22 Long Rifle Cartridges. Weight about 3 lbs	**$8.80**

Each Rifle Packed in a Partition Box with Cleaning Rod; Ten Rifles in a Case; Weight of Case 50 lbs.

REMINGTON AUTO-LOADING REPEATING RIFLES

A Simple "Take Down" System Permits this Rifle Being Taken Down and Put Together Easily and Quickly. Provided with a Box Magazine and Designed so that the Magazine Can be Charged by Use of a Cartridge Clip. The Clip is Filled by Inserting Each Cartridge Separately in Either End of Clip, at the Same Time Pressing Spring to Allow Flange on Sides of Clip to Intersect the Groove in Head of Cartridge. The Cartridges are Slid into Clip until Full. Magazine Can also be Loaded Without Aid of Clip. Empty Shells are Ejected From Top of Receiver by a Spring, Throwing them out Softly and Surely. The Bolt Remains Open After the Last Cartridge in the Magazine Has Been Fired, Notifying the Shooter that the Arm is Empty. Prevents Snapping the Hammer when there is no Cartridge in the Chamber and also Saves the Time of Opening the Breech by Hand. This Arm Can also be Fired Repeatedly as a Single Loader with the Magazine is Empty. Extra Light Trigger Pull, from 1 ½ to 3 lbs., and has Balanced Trigger which Prevents the Arm from Jarring off should it be Accidentally Dropped while the Safety is Unlocked. The Safety when in a Locked Position Securely Locks Both the Trigger and Bolt.



STANDARD GRADE (Factory No. 8A)

Take Down; Solid Breech; Hammerless

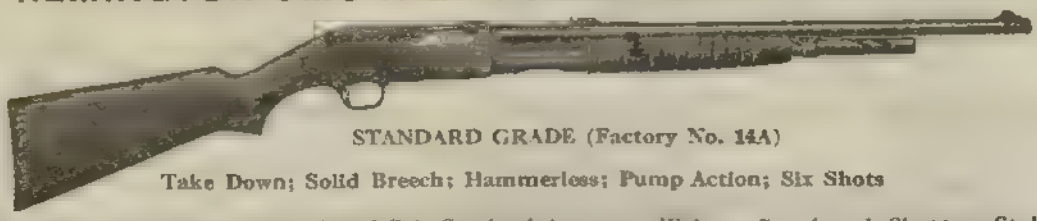
22 inch Round Barrel Only; Plain Walnut Stock; Straight Grip; Shotgun Butt; Rubber Butt Plate; Blued Finish; Weight about 7¾ lbs.; 5 Shots.

Each Rifle Furnished with Three Cartridge Clips

		Each
No. RA25	**25 Caliber;** Shoots 25-35 Remington Auto-Loading Smokeless Cartridges. . . .	**$64 00**
No. RA3030	**30 Caliber;** Shoots 30-30 Remington Auto-Loading Smokeless Cartridges. . . .	**64.00**
No. RA32	**—32 Caliber;** Shoots 32 Remington Auto-Loading Smokeless Cartridges. . . .	**64.00**
No. RA35	**35 Caliber;** Shoots 35 Remington Auto-Loading Smokeless Cartridges	**64 00**

One in a Box

REMINGTON-UMC HIGH-POWER REPEATING RIFLES



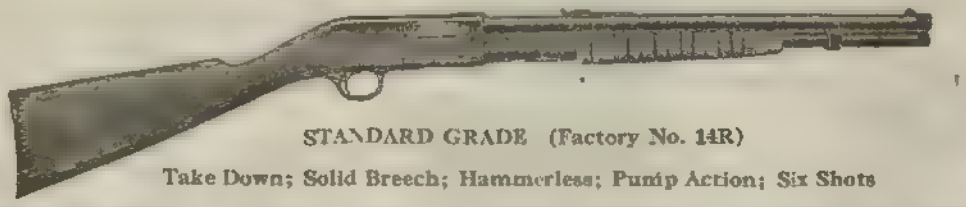
STANDARD GRADE (Factory No. 14A)

Take Down; Solid Breech; Hammerless; Pump Action; Six Shots

22 inch Special Ordnance Steel Barrel; Half Pistol Grip Stock of American Walnut, fitted with Shotgun Style Rubber Butt Plate Patented Quick Adjustable No. 1 Buckhorn Rear Sight and New Design Copper Bead Front Sight; Weight about 6¼ lbs.

	Each
No. RP25—25 Caliber; Shoots 25-35 Remington Auto Loading Smokeless Cartridges	**$46.00**
No. RP30—30 Caliber; Shoots 30-30 Remington Auto Loading Smokeless Cartridges	**46.00**
No. RP32—32 Caliber; Shoots 32 Remington Auto Loading Smokeless Cartridges	**46.00**
No. RP35—35 Caliber; Shoots 35 Remington Auto Loading Smokeless Cartridges	**46.00**

One in a Box



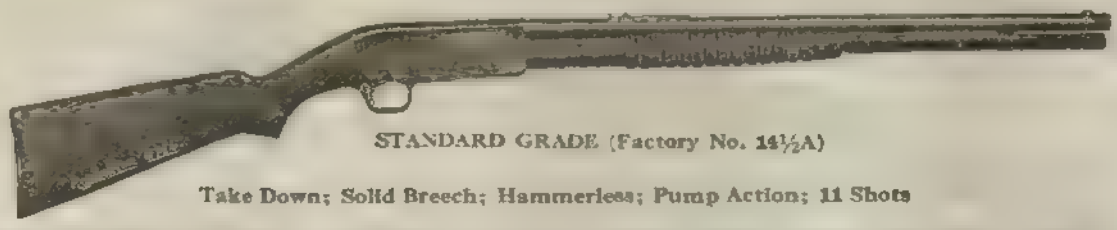
STANDARD GRADE (Factory No. 14R)

Take Down; Solid Breech; Hammerless; Pump Action; Six Shots

18 inch Special Ordnance Steel Barrel; Straight Grip Stock of American Walnut fitted with Shot Gun Style Steel Butt Plate; Patented Quick Adjustable No. 1 Buckhorn Rear Sight and New Design Copper Bead Front Sight; Can Be Furnished with Ring on Left Side of Receiver when so Ordered with No Extra Charge; Weight about 6½ lbs.

	Each
No. RP30C—30 Caliber; Shoots 30-30 Remington Auto Loading Smokeless Cartridges	**$44.50**
No. RP25C—25 Caliber; Shoots 25-35 Remington Auto-Loading Smokeless Cartridges	**44.50**
No. RP32C—32 Caliber; Shoots 32 Remington Auto-Loading Smokeless Cartridges	**44.50**
No. RP35C—35 Caliber; Shoots 35 Remington Auto-Loading Smokeless Cartridges	**44.50**

One in a Box



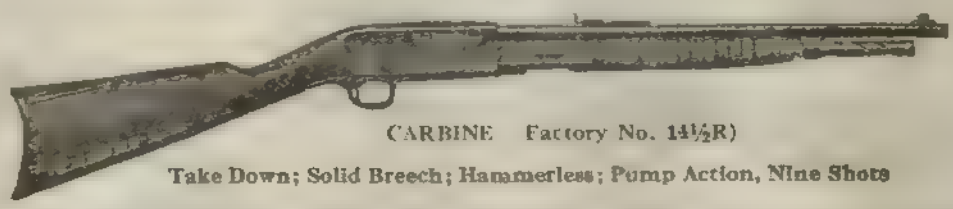
STANDARD GRADE (Factory No. 14½A)

Take Down; Solid Breech; Hammerless; Pump Action; 11 Shots

22 inch Remington Steel Round Barrel; Half Pistol Grip Stock of American Walnut fitted with Shot Gun Style Steel Butt Plate Patented Quick Adjustable Straight Bar Rear Sight and New Design Copper Bead Front Sight; Full Length Magazine Contains 11 Shots; Half Magazine Containing 8 Shots; can be Furnished on Special Order, No Extra Charge; Weight about 6¾ lbs.

	Each
†No. R33—33 Caliber; Shoots (38 W. C. F.) Winchester Center Fire Smokeless Cartridges	**$41.70**
No. R44—44 Caliber; Shoots (44 W. C. F.) Winchester Center Fire Smokeless Cartridges	**41.70**

One in a Box



CARBINE Factory No. 14½R)

Take Down; Solid Breech; Hammerless; Pump Action, Nine Shots

18 inch Remington Steel Round Barrel; Straight Grip Stock of American Walnut fitted with Shot Gun Style Steel Butt Plate; Patented Quick Adjustable Straight Bar Rear Sight and New Design Copper Bead Front Sight; Can Be Furnished with Ring on Left Side of Receiver on Special Order; No Extra Charge; Weight about 6½ lbs.

	Each
†No. R33C—33 Caliber; Shoots (38 W. C. F.) Winchester Center Fire Smokeless Cartridges	**$40.40**
†No. R44C—44 Caliber; Shoots (44 W. C. F.) Winchester Center Fire Smokeless Cartridges	**40.40**

One In a Box

Items Marked † Not Carried in Stock; Can only be Furnished by Shipping Direct from Factory; New York.

SCREEN REPORTS FOR THE BOX-OFFICE

"The Hoosier Romance," Old Fashioned Love Story, Will Appeal to All

Five-Part Drama produced by Selig Released by Mutual, August 18. Directed by Colin Campbell. Running time, 70 minutes.

THE C

Jeff Thompson .. .. Thomas Jefferson
Patience Thompson ... Colleen Moore
... Harry McCoy
... Edward Jobson
... Eugenie Besserer
The Widower ... Frank Hayes

... after the death ... her mother, carries on ... her father. Her one pleasure is ... and encourages an ...

... dd man, but her father's will is law. Just ... before her wedding John returns but Jeff will not allow Patience ... even speak to him. But Jue Squire and his wife let them meet ... at their house, and with John arrange a big surprise for the night of the wedding. Patience's sorrow is turned to joy when they explain the joke to her. As the wedding guests are gathered ... Thompson home and the widower stands waiting for his ... Patience comes in, takes her place beside the groom and ... as the ceremony is about to begin takes the marriage license ... and rushes from the room to the porch, and they hear the clatter ... of horses' hoofs down the road. Thompson and the widower rush ... out and start after the horse. But Patience runs back into the house into a room where John was waiting, and the Squire and his wife join them and the wedding ceremony is performed. Then they cross the guests and dance until sunrise while the two cronies are seeking the girl everywhere

THE feature is an adaptation of the poem by James Whitcomb Riley, and is an old fashioned love story of the time of our great grandmothers. A clean, simple love story which makes one give a sigh of relief and wait for many more like it, after we have been satiated with "vamps" and "spicy scenes." Its very simplicity is refreshing.

The direction is splendid, and not for one minute do the settings and action deviate from the small town life of a generation or two ago. You wonder where they found the old-fashioned house, a faithful picture of the old-time darkened parlors with the haircloth furniture, ... and wax flowers under glass domes, and the women wearing hoop skirts and pantalettes

The exterior scenes are things of beauty ... themselves, each one a pastoral view of spring and young budding life. The scenes were shot in the springtime amid orchards full of blossoming trees, and others in the farmyard, with the cattle and small calves and chickens all carrying out the rustic atmosphere of the picture. Although the action in the first of the picture moves rather slow-y, being made up mostly of the meeting of the young people, it does not seem raggy because of the beauties of nature surrounding them

Many comedy touches have been introduced to keep the story from becoming too idyllic, and at the end the action becomes so fast that you have to keep close watch not to miss any of the fun

The cast is a notable one, Colleen Moore fitting perfectly into the gentle heroine role. Thomas Jefferson, who plays the role of the flint-hearted father, is the son of Thomas Jefferson of "Rip Van Winkle" fame. Harry McCoy and Frank Hayes will be remembered in many Keystone comedies, and in the character role of the widower Hayes brings in many of the old Keystone ... touches.

This picture may not appeal to those who are pleased only with lurid drama, but it is one which everyone in ... , from the white-haired grandmother to the young people, will enjoy B. B.

Program Reader—Issue of Aug. 18, page 858.
Advertising Guide—This issue, page 1086.
Music Cue Sheet—See latter issue

Official War Review No. 8

THE eighth installment of the Government's official war review, produced by the Division of ... of the Committee on Public Information, of which George Creel is Chairman, and released August 17 by Pathé, includes some excellent pictures from the American sector of the Western front, and there are ... fine views of Minister of War Clemenceau (?) ... of France

Many pictures of the Allied air work are shown from the Italian front are views of Monte Grappa. The Official War Review No. 8 also shows how the United States feeds its army in France. The English King is seen conferring awards on English heroes. This is one of the most interesting films the Government has released.

Reviewing Staff

R. W. Bazemore — George T. Pardy
Beatrice Barrett — Helen Rockwell
Charles E. Hastings

"The Clutch of Circumstance" Unusually Good Picture—Director and Star Score

Blue Ribbon Photodrama in Five Parts From the story by Leighton Graves Osmun. Directed by Henry Henry. Released through Vitagraph on August 26. Running time, about one hour.

THE CAST

Ruth Lawson ... ... Corinne Griffith
John Lawson ... Robert Gaillard
Rudolph Raybu ... David Herblin
Lorry Williams ... Florence Deshon
Jack ... Denton Vane
Mrs. Lawson ... Esta Banks

Ruth is the wife of a former ... in a staid old New England village. Her husband, John, has become involved in debt. One evening he goes to a neighbor to attend to a message. His horse runs away and John is seriously ... To keep the matter ... ment. On the trials she meets Lorry Williams and other members of a theatrical troupe. Lorry promises to help Ruth should she ... it. Ruth secures employment in a sweat shop but her health ... th mistakes ... ces. She goes back to John who has recovered but he has ... ces about her since never and although she has worked for him at all times, he turns her out. She returns to New York where she is soon connected of the lowest type of the producer.

WILL wonders never cease? We never expected to see a photodrama in which a young girl gets a job on the stage, is made a star—but by a theatrical manager who does not attempt to seduce her. Now along comes Henry-Henry with this Vitagraph feature. He gently leads up to the familiar situation and then—he just lets you forget it for awhile, all the time in doubt as to whether or not the theatrical manager has really demanded his price, and we finally learn that no such thing happened, that the manager was really sincere and actually loved and wanted to marry the girl. This one fact in itself ought to be enough to stamp this feature as out of the ordinary, but there are several other things that place it in the worth while class.

If anyone had the idea that Corinne Griffith could not handle an emotional role, all he will have to do to experience a change of mind is to see this film. In it, Miss Griffith demonstrates her ability as she has never done before and registers a decidedly artistic performance. Robert Gaillard likewise does a praiseworthy work, while the rest of the players have been well, cast.

Director Henry Henry has done his work well. He has succeeded in sustaining the suspense until the very last, and by cleverly introducing little bits of business, managed to bring out the high lights of the story forcibly. The photography and lighting are fully up to the Vitagraph standard, while all sets and locations are more than satisfactory. In addition to this the story is a good one and well told on the screen

"The Clutch of Circumstance" is a thoroughly good program feature of the sort that ought to go over well in all classes of theatres. R. W. B

Program Reader—Issue of Aug. 17, page 826.
Advertising Guide—This issue, page 1085.
Music Cue Sheet—The issue, page 1092.

"The Honest Thief"—(Produced by Astra Film Corporation Photoplay in two parts. Story and ... Frank Leon Smith. Directed by George B. ... turing Hedda Hopper and Ed. Stanley. Released by Pathé.)—This picture has as much merit in it as some five-reel features and is really a condensed feature film, ... both story and presentation. It is interesting, well acted and will make a good box-office attraction for a double program. Edith Marbury (Helen Chadwick), a bank cashier, succeeds in recovering the proceeds of a bank robbery from under the noses of the robbers and returns it to the bank. Her lover, Chuck Severance (Ed Stanley), is the bank detective and leader of the band of robbers and the mystery as to whether he is playing the part of a robber or detective is not solved till the end.

REMINDER Page 1070 is the high water mark of Box office ...

"Our Mrs. McChesney" Splendid Comedy Drama—Ethel Barrymore Scores

Metro Photodrama in Five Parts. From the Saturday Evening Post story by Edna Ferber and the stage play by George V. Hobart. Directed by Ralph Ince. Photographed by William Black. Produced under the personal supervision of Maxwell Karger. Running time, about 55 minutes.

THE CAST

... ... 'thel Barrymore
T. A. Buck, Jr ... Huntley Gordon
Jack McChesney ... Wilfred Lytell
Vieva Sherwood ... Lucille Lee Stewart
Abel Fromkin ... John Daly Murphy
... William H. St. James
... Walter Percival
Hattie Stitch ... Rocca Allen
Joe Grossbaum ..... George Trimble
Izzy Greenbaum ... .Sammy Cooper
Sam Harrison ... ... Fred Walters

Mrs. McChesney is the star saleswoman of T. A. Buck and Co., the firm being run by Buck, Jr., with an outlook rather doubtful. Mrs. Mac is on the road and tweets her son, who is in college at Sandusky where she learns that he has not only married but raised a check his mother had sent him. Mrs. Mac sends her son's wife, a chorus girl, to a finishing school and Jack takes a job with the firm. Trouble a rival to the suit business, has made Mrs. Mac up after which she turns down and she then undertakes to run the Buck business. She designs a new skirt to be shown at the fashion show. The model fails ill but the chorus girl was takes her place. The skirt develops into a success, the business is saved. Jack, the son, develops into a real man, the wife into a real woman and Mrs. Mac seems destined to wed T. A. Buck, Jr.

THIS is a bully good comedy drama that is sure to make a good impression wherever shown for it has been produced and acted in just the right way to bring out the delicious humor of Miss Ferber's famous stories and good judgment was used when sub-titles were made up word for word as they were written by the author

The past week at the Strand Theatre, New York, "Our Mrs. McChesney" has been doing good business, keeping large audiences in good humor throughout its showing and registering a real hit. It received undivided praise at the hands of the New York newspaper critics.

Ethel Barrymore repeats the big success she made of the same role on the speaking stage. Her "Mrs. McChesney" is decidedly one of the very best characterizations that this well loved actress has given to the screen and her many admirers will find much to praise in her latest photodramatic triumph. Members of the large supporting cast all add very materially to the success of the picture, it being a noticeable fact that they appear to strive for the general effect rather than for individual glory

The direction of Ralph Ince could hardly be improved upon. There are some remarkably good examples of photography constantly being shown and the lighting is of high quality throughout. The atmosphere of the ... and of the business office has been well injected into the screen story which, by the way, is one of the best that has been filmed in some time

There seems no good reason why "Our Mrs. McChesney" should not make a big name for itself at theatres throughout the country, for it has all the elements necessary to a good photoplay. Those exhibitors who book Metro pictures can look forward to this release with a great deal of satisfaction. R. W. B.

Program Reader—See latter issue.
Advertising Guide—This issue page 1082
Music Cue Sheet—See latter issue

"The Liar" Only Fair Medium For Virginia Pearson's Abilities

Fox Photoplay in Five Parts. Released August 18 by Fox. Story by Katherine Kavanaugh. Director, Edmund Lawrence. Running Time, 60 minutes.

THE CAST

... ...

Sybil is sought in marriage by the scheming manager of her father's plantation. When the girl repulses him and tells him she is to marry another he confronts her with the [illegible] has negro blood in her veins. She refuses to believe him but remains firm when she is about to become a mother he confesses her with what is seeming proof. A crippled negro boy whom Sybil had befriended tells her father's position and when her father had given a regular allowance to, confesses that he is her brother. Sybil is [illegible] upon the arrival [illegible]

THE heroine of this picture is made to believe by an unscrupulous lover that she has a negro blood in her veins. We are shown from the beginning that she hasn't, so the suspense is only a matter of waiting to see how long before she learns the truth. Racial problems are to be found plentifully on the stage, screen and in fiction. They are always the basis for rather unpleasant stories, and that this heroine has only an imaginery obstacle to overcome hardly places the picture in a different category.

Virginia Pearson is not especially well cast as Sybil Houston. She is seen throughout the picture with her hair down her back, romping around with a group of callow youths who might not yet be out of High School. There seems to be something so forced about the scenes wherein the villain tries to coerce her into believing that she is the daughter of a negress that they do not make a vital appeal. The villain journeys from Porto Rico to Boston for the week-end in order to threaten her—a rather ambitious trip.

The company has been well chosen, the work of Alexander Franklyn as the father being particularly effective. Frankyin Harvey is adequately vicious as the villain. In matters of production the picture is satisfactory, some views of beautiful estates being shown. For patrons who crave stories with sensational themes and who enjoy seeing a heroine hounded throughout the five reels, this picture will prove to be just the thing.

H. E.

Program Reader—Issue of Aug. 3, page 747.
Advertising Guide—This issue, page 1085.
Music Cue Sheet—See later issue

"Har Only Way" One of Norma Talmadge's Best Photoplays

Select Photodrama in Five Parts. From the stage play by George Scarborough. Scenario by Mary Murillo. Directed by Sidney Franklin. Photographed by Albert Meese and Ed. Weynard. Released on August 18 through Select. Running time, about sixty-five minutes.

THE CAST

Lucille Westbrook .	Norma Talmadge
Joseph Marshall	Eugene O'Brien
Paul Belmont .	Ramsey Wallace
Judge Bates	E. A. Warren
Mrs. Randolph	Johyna Howland

Lucille in love with Marshall has come home from school after returning from board school she learns that plans have been made for her to wed a wealthy man because her fortune has been lost as Marshall, feeling that she will be swept away by the glitter of social life, denounces her though she is given everything she asks for from boating lover Lucille's husband divorces her and she elopes with Belmont. But that throws [illegible] a dream. Lonely wishes to find Belmont there for Lucille [illegible] she refuses him and accepts Marshall.

THE scenario writer, author and director have all combined to give Miss Talmadge one of her best photoplay attractions in this offering. The star is always the central attraction, a point too often overlooked in the big productions and Miss Talmadge will find no action all her ability, as she moves from comedy into tragedy, and back again, always registering strongly. At moments Miss Talmadge eclipses her previous efforts, this being particularly true of the drama tragedy, one of the strongest seen ever filmed and for which much credit must be given the director

"Her Only Way" is an attraction that should make itself felt at the box office, and decidedly so, for it offers a good story and a very popular star It is the sort of offering that ought to be booked by exhibitors, for it proved last week at the Rialto Theatre, New York City, that it has a feature of undoubted merit and a picture that could be depended upon to get the business

In addition to the star, Eugene O'Brien puts over one of his usual fine performances, while Ramsey Wallace has been well cast. Johyna Howland makes an excellent "opposite type" to Miss Talmadge, and does her work well. E. A. Warren is unusually good as Judge Bates.

The settings are lavish, and the exteriors unusually accord with the story Photography and lighting are very good

Admirers of Miss Talmadge will find her in one of her best roles. From first to last "Her Only Way" is a feature of the highest class.

R. W. B.

Program Reader—Issue of Aug. 10, page 838.
Advertising Guide—See later issue
Music Cue Sheet—See later issue

"The Power and the Glory" Appealing Melodrama—June Elvidge Star

World Photoplay in Five Parts. Released September 2. Story by Grace MacGowan Cooke. Scenario by Hamilton Smith, and Harry Hoyt. Director, Lawrence C. Windom. Cameraman, Max Schneider. Running time 58 minutes.

THE CAST

"Jonnie" Consadine .	June Elvidge
Laurella Consadine	Risca Allen
Deanie	Madge Evans
Pros Passimore	Albert Hart
Shade Birkhead	Clay Clement
Pap Rimes	Ned Burton
Gray Stoddar	Frank Mayo

Jonnie Consadine lives in the Blue Ridge Mountains with her widowed, two brothers and sisters. Pros Passmore, her uncle, is continually searching for a lost silver mine. Jonnie gets a job in the mill at Cedarville. She becomes acquainted with Gray Stoddard, part owner of the factory, and Layla Sessions, who hopes to marry him. Stoddard takes an interest in the girl, helps her books and tries to improve her mind. Shade Birkhead, a town hand, wants to marry Jonnie. Stoddard builds a hospital at his own expense, [illegible] a mountaineers and mill hands can be treated. He incurs the enmity of a family known as the "fighting Dunsons." Pros Passmore finds the mine, but Birkhead takes the ore specimen away from him and in the struggle the old man is injured and taken to the hospital, unconscious. In league with the Dunsons, Birkhead besieges Stoddard and makes the near the mine Jonnie, who is deeply hurt because her mother has married again, and set the child down to work, tracks Stoddard, in company with her uncle. They find him and escape in an auto. Stoddard realizes that he loves the girl and proposes marriage to Jonnie and her uncle.

THE trials and tribulations of "Jonnie" Consadine, as portrayed by June Elvidge, are woven into a very appealing melodrama, with plenty of heart interest; romance runs riot and with villainy defeated and virtue triumphant at the finish the picture can safely be said to hold a popular appeal

Miss Elvidge performs very credibly as the mountain maid of virtue, although her stately height and physical proportions do not always convey the appeal of need of the protection of a strong male arm. Gray Stoddard, as portrayed by Frank Mayo fills the lover role admirably, and adequate support is given the principals by the competent cast.

The Southern atmosphere is well developed and preserved. Striking views of forest, water and mountains are caught by the camera and numerous clever long shots are in evidence. The feature ranks as a fairly good box office attraction, well worth the attention of exhibitors.

G. T. P

Program Reader—This issue, page 1087.
Advertising Guide—This issue, page 1085.
Music Cue Sheet—See later issue.

"Heart of the Wilds" Sure Fire Attraction—Elsie Ferguson Star

Artcraft Photodrama in Five Parts. From Edgar Selwyn's play "Pierre of the Plains," from the novel by Sir Gilbert Parker. Scenario by Charles Maigne. Directed by Marshall Neilan. Released through Paramount on Sept. 1. Running time, about 58 minutes.

THE CAST

Jen Galbraith.	Elsie Ferguson
Peter Galbraith	Joseph Smiley
Val Galbraith.....	Robert Cain
Pierre	Escamalo Fernandez
Sergt. Tom Gellatly.....	Thomas Meighan
Grey Cloud.....	Sidney D'Albrook

Jen is the daughter of a trapper on the Canadian plains. Her father sells liquor to the Indians, Val, Jen's brother, and Pierre, friend of Jen's father, are both in love with her. Pierre is half breed girl despite the fact that she seems to prefer Sergt. Tom Grey Cloud, an Indian, is another who declares his love to Jen. Pierre and the Indian cook up a scheme to get Galbraith where he will shoot Grey Cloud and Val demands the liquor. Jen's father refuses to give it as providing Val will bring about his marriage to Jen and Val kills the Indian. Then Sergt. Tom is set on Val's trail. Tom visits the Post and while there Galbraith drags [illegible] to the proper officers. In her return Jen is unconscious, and she then learns that Val is a fugitive. Awakening she threatens to set out for the post to denounce him. Pierre returns and is embracing Jen when Val suddenly appears. A struggle of powerful picture arrives. Tom declares he must pursue and Pierre is denounced as the real murderer of the Indian

MARSHALL NEILAN has transferred Edgar Selwyn's play to the screen in fine style. The stage version of the "Heart of the Wilds" was a most attractive one and the picture adaptation is still more so because of the ability of the motion picture camera to film scenes that are not capable of being presented on the stage. "Heart of the Wilds" and Elsie Ferguson have a sure-fire box office attraction; a photodrama that combines a popular star, a fine story and a very excellent production

The past week at the Rivoli Theatre, New York City, this picture met with the decided approval of large audiences and received high praise from the reviewers of the Metropolitan papers.

Miss Ferguson is seen in a role that is distinctly different from those she has been playing of late. She handles the part of Jen, a typical girl of the great outdoors, with the same ability for registering dramatic situations that has made her name an envied one in the list of screen stars. Her work throughout could hardly be surpassed upon. Thomas Meighan is an hero, plays well and does his full share towards making a success of the picture, although he does seem a bit too neatly and carefully groomed for the rough job he is supposed to handle. Other members of the cast all fit in nicely and uphold their end of the work

Many charming and beautiful locations have been filmed. The interiors are in keeping with the nature of the story and the photography and lighting are both fully up to the high standard of Artcraft productions. "Heart of the Wilds" is the sort of picture that will help build up a real reputation for a theatre. It is a first class production all the way through.

R. W. B.

Program Reader—This issue, page 1087
Advertising Guide—This issue, page 1085.
Music Cue Sheet—See later issue.

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"The Cruise of the Make-Believes" Acceptable Program Attraction

Famous-Lasky Photoplay in Five Parts. Released by Paramount. Story by T. Gallon. Scenario by Edith Kennedy. Director, George Melford. Running Time, Fifty-Five Minutes

Bessie Meggison...	Lila Lee
Gilbert Byfield ...	Harrison Ford
Daniel Meggison ...	Raymond Hatton
Aubrey Meggison..	William Brunton
Verbin Tant	Parks Jones
Simon Quarle	Spottswoode Aitken
Uncle Ed	Bud Duncan
Aunt Julia	Eunice Moore
	Mayme Kelso
Maid Cruise ..	Nina Byron

Bessie Meggison, a fanciful girl of sixteen, lives in the slums with her grandma (after the manner of the cockaigne), takes voyages on board of a ship rigged out of old chairs and canvas with a car wheel for steering to dream countries

Gilbert Byfield, a wealthy young man [illegible] stolen and, broken-hearted, returns to her humble home. But Byfield seeks her on board the good ship Make Believe and her dream of [illegible]

A RICH vein of mingled sentiment and comedy runs through this production which is prettily conceived smoothly developed and affords an artistic setting for the youthful grace and charm of Lila Lee in the heroine role The plot is a very simple one of no great strength, but carries a touching appeal, and considered in the light of what the title indicates, a sort of dream-like fantasy, will doubtless please highly those numerous screen patrons who find pleasure in the unfolding of a tender romance

A striking contrast is offered by the squalid surroundings of Bessie's humble home and the magnificence of the Byfield estate, where she reigns temporarily like a little queen over a retinue of servants and displays generous hospitality to the kiddies of the slum neighborhood. The play is effectively staged and directed and no expense spared in its construction down to the smallest detail, the furnishings of the Byfield residence being especially elaborate and luxurious

The photography is exquisite, the garden views of the country Paradise to which the girl of the slums is transported being extremely beautiful and the lighting faultless Lila Lee gives a commendable performance in the leading role and Harrison Ford is a perfectly satisfactory lover while good support is rendered by the balance of the company. The picture does not lack action, with its clean humor as a foil to the pathetic trend of the story ranks as a very acceptable program attraction. G. T. P

Program Reader—See later issue
Advertising Guide—See later issue.
Music Cue Sheet—See later issue.

"Miss Mischief Maker" Bright Comedy; Gloria Joy an Attractive Heroine

Oakdale Productions Photoplay in Five Parts. Released by General Film. Director, Sherwood McDonald. Running time 55 minutes.

Mr.	Gloria Joy
Bridget Cassidy .	Nell Seaman
James Wilson .	Ruth Lackaye
Richard Wilson	Edward Jobson
Marjorie Wilson ...	Edward Saunders
Frederick Mason ..	Ethel Peppell
Patrick Cassidy	Chas. Dudley

Little Sallie O'Brien, an orphan, is taken from the unpleasant boarding house atmosphere of Mrs. Cassidy and adopted by brother Pat Wilson. There she sees Richard welcomes the child, but the daughter Marjorie resents her coming.

Sallie over-[illegible] Frederick Mason, Richard's friend, is not [illegible] prodigal son of Mrs. Chevalier [illegible] ke of Galway [illegible] pose presents to widow [illegible] war and there is [illegible] [illegible] [illegible]

[illegible] ... [illegible] ... [illegible] ... [

"In Pursuit of Polly" Provides Billie Burke with Admirable Role

Famous Players-Lasky Photoplay in Five Parts. Released by Paramount. Scenario by Eve Unsell. Director, Chester Whitey. Running Time, Fifty-five Minutes.

THE CAST

Polly Marsden	Billie Burke.
Coley Mason	Thomas Meighan
Buck Marston	Frank Losee.
Talbot Sturgis	A. J. Herbert.
Larry O'Malley	Wm. Dyd son
Erik Kremer	Benjamin Deely
O'Leary	Alfred Hickman.

Polly Marsden, daughter of Jack Marsden, custom broker, is compelled by her father to choose between two admirers. O'Malley, a poet, and Talbot Sturgis, fabulously wealthy. Polly accepts Sturgis, but on the eve of the wedding she runs away from home and her father, who refuses to pay a penny of her debts. After various adventures, Polly does come down to a cabin occupied by Coley, a boyhood friend, and Larry O'Malley arrives in New York where after attracting the attention of Kremer, a Secret Service man, who believes that she is in the employ of the hated German spy, who believes that she is in the employ of the hated German spy, who believes that she is in the employ of Polly ends by Coley confessing her love for her and marrying her after she has straightened out her affairs.

QUICK action, wonderful photography and the charming personality of Billie Burke, combine to make this a very attractive feature. The role of Polly Marsden suits Miss Burke in every particular, her engaging smile is ever in evidence, and she gets around out the entire production with the energy which has won her international fame as a great comedienne.

The story as screened runs smoothly and holds the interest of the audience from start to finish. Whatever shortcomings the plot may contain are lost sight of in the rush of the comic situations that, follow swiftly upon each other and the element of suspense is maintained to a degree seldom seen in a comedy.

Thomas Meighan, as the lover of the winsome Polly, gives a capital performance. Larry O'Malley shines as a poetical genius of the first water, and the other members of the company render adequate support. Chester Whitey's direction is all that could be desired and the picture can be listed as a sure smash winner and a valuable program attraction.

Program Reader—Issue of Aug. 10, page 835.
Advertising Guide—This issue, page 1086.
Music Cue Sheet—This issue, page 1086.

"Fame and Fortune" Worthy of a Place on Any Exhibitor's Programme

Mutual-Fox Photoplay in Five Parts. Story by C. A. Seitter. Scenario by Bennett Cole. Director, Lynn Reynolds. Cameraman, J. D. Jennings. Running Time Fifty-Five Minutes.

THE CAST:

Clay Burgess	Tom Mix
Delia Bowen	Kathleen Connors
"Big" Dave Dawley	George Nichols
Judge Quinn	C. McHugh
Ben Davis	Jack Pull.
Marie Carson	Annette DePoe.
Flash Denny	Val Paoo.
Kuneen	L. N. Wallack
Sheriff of Palo	Clarence Burton

Love, hidden forces at work when Will and Burgess, banker in Palo, die, mysteriously, are united in their "big" boy Ben. The latter, on his return home to settle up business matters with his father's partner, is robbed of the money he would bring Bowen's young sweetheart, a fund raising entertainment for the benefit of the town. Ben, suspecting Clay Burgess of having stolen the money, starts in pursuit of the latter, who, with Delia Bowen and Flash Denny, escapes to Palo.

TOM MIX performs some amazing stunts on the way of wild horsemanship and desperate fighting as the gal bant hero of the picture. The Western atmosphere is well developed and preserved throughout the picture, which is all one of rapid action from start to finish.

Kathleen Connors is seen to charming and fully equal to the emotional demands made upon her in the role of Delia Bowen.

A thoroughly competent cast renders adequate support to the principals, and from beginning to end the feature worn and holds the attention of the audience.

The photography includes a number of fine mountain and forest views and cleverly posed "closeups." It is well directed and worthy of a place on any exhibitor's program.

Program Reader—This issue, page 1087.
Advertising Guide—See later issue.
Music Cue Sheet—See later issue.

Music for the Photoplay

(For additional cue sheets, see following pages)

MUSICAL SETTING FOR "THE POWER AND THE GLORY"
Released Sept 2 by World Film Corporation

The characters of picture, as well as the entanglement of story, with scene in action at the wilds of the Blue Ridge Mountains, and a prison, are:

See Scenes, Reports for synopsis.

Persons are note effects of the history throughout picture, automobile water shots, telephone bells and scenic as per as suggested in the score.

The PICTURE selected for romance Miss Jane Lawless in "Mount and Scene by courtesy Famous Players, 6,000 feet, and Hand a projection time of 60 minutes.

Time	Sub-Titles or Descriptive Cues	Music and Description of Scene	
0	D	Opening	Moderato Song Booch (Andante Cantabile)
2	T	Last call Committee there	A society dance's Dance Booch (A Night Dream)
5	T	Early Sunday morning	A Dance Booch (Andante Cantabile)
6½	T	Gray Shoddard, wealthy Northerner	Reed D'Amante—Zamecnik (Allegretto Grazioso)
8½	T	"Has old Penn found him?"	Repeat THEME
9½	T	"On the power and the glory" (Autumnwide effects)	
11	T	"I'm going to have a dress like"	
11½	T	Mandy Lenox, his wife good daughter	Adieu Kaegaard-Floderman (Modern Melodie)
14	T	"He took all sleeps here"	Same piece—Matthews (Valse Rubato)
14½	T	The gateway of hope (Machinery effects)	
17½	T	Mandy: "Now you are mine sister"	Repeat THEME
18	T	The following Sunday in search (Water effects, smoke effects)	
20½	T	A meeting of the Social Club	Serenade—Kantorchak (Allegretto Valerato)
23½	T	Several weeks later the reward. Councilor, I give"	Petite Serenade—Horton (Allegro a Serenade)
28½	T	"Johnnie Councilor, I give"	
29	T	A miracle of modern surgery	Pyramic Tension Levy
30	T	The dance of the Light Club	Kashoo Brog Tune (Leader)
31	D	Water Sparks tosses corn	Hungarian Love Pages or Real Tone Overture)
32	D	When dance scene fades	Joseph Dives Sheen (Wine some underscore)
34	T	When word of a game's	
34½	T	"Wine's Johnnie"	Pyramic Agitato No 38 Most
36	T	"Get Doc Mallons	Reed Jeremiah Williams (Allegretto Moderato)
39½	T	"You go to the hospital"	Lullaby—Williams (Andante Con Expressione)
42	T	"What he ye sayin' at, Pap"	Meditation—Williams (Andante Affettuoso)
43	T	"Pap" nothin' good	
44½	T	"I need for her heard Pap"	After Gone Celeb Moderato Tone Picture)
47½	T	"Johnnie you must not work to"	Repeat THEME
48	T	With the down	
49½	T	"You must not blame her, the"	Serenade Pyramic (A Greeta Gronzoso)
50½	T	Work old Prof Pyramore gates	Allegro Agnato No 8 - Axel ex
54	T	"If well, and me"	Romance Pyramic (An Serenade—Johnson)
54½	T	"Johnnie that"	Parlour In d Reefert
55½	T	"If I'd a known"	Dramatic Tension No 36 Andino
33½	T	Revelation	
57	T	"And soon Shade reached the"	Vive Pinzo—Reece (Symphonette Suite)
59	T	The following afternoon	
61	T	"Jim and Shade were go in"	Agitato No 69. Music (Allegro Agitato)
62	T	"They were a located the time"	Presto No 60 Sherbord
64	T	"You go down to be trail a"	
64½	T	All right if you say"	
67	40	When Johnnie enters car Shade, automobile	
65½	T	"Shade, Johnnie's with"	Repeat THEME
68½	T	The power and the glory	
69½	T	"Is time"	

MUSICAL SETTING FOR "IN PURSUIT OF POLLY"
Released by Paramount

THEME—"Annie Laura (A romantic intermezzo), by Gaston Borch

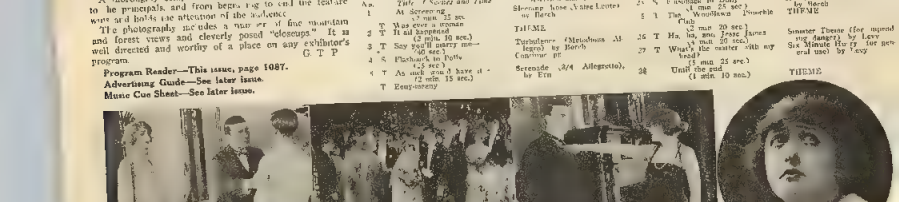
No.	Title of Scenes and Time At Screening	Selection and Theme
1	Opening 25 sec.	Selection and Theme
2	Was given a present	Shannon Rose (Valse Lentes by Borch
3	It all happened (2 min. 50 sec.)	FILL ME.
3	Say you'll marry me— (50 sec.)	Turbulence (Melodious Allegro) by Borch
4	Flashback to Polly (2 min. 25 sec.)	Continue on
4	As each read have a (2 min. 15 sec.)	Serenade (3/4 Allegretto), by Ern
7	Engagement	
6	The next day (1 min. 45 sec.)	
7	Also when Father	
7	But Polly is premated confession, my daughter	
7	Polly gets an idea	
8	Put in the clothes on Monday (2 min. 15 sec)	
8	When garage is closed	
9	The next day to (3 min. 0 sec.	
9	Polly's room	
10	Mark obliged for (2 min. 30 sec	
10	Take the car and (2 min. 30 sec	
11	Announcing to her mom	
11	As the carriage (2 min. 30 sec.)	
12	When putting was (2 min. 30 sec.)	
15	Polly on the road (using her (2 min. 45 sec)	
15	The house	
16	Where the hours	
16	Near knock	
13	And all the trouble (2 min. 45 sec.)	
14	How I love you	
14	The moment Miss Tan	
14	Oh	
15	The woman you're looking	
17	After Polly's maid (2 mins.)	
17	In due time the maid	
17	Where the hours	
16	Can't you ever imagine (2 min. 15 sec.)	
17	Dinner does a little	
17	I look at Mrs Coley (3 min.	
8	You're discovered (2 min. 45 sec	
9	I'm in the secret no (5 min. 30 sec.)	
9	Ah she's been engaged	
9	If you want to see	
9	We can get away (2 min. 45 sec.)	
9	Something terrible, my	
9	I look at the clock	
9	But those are our	
22	We've got rocks (1 min. 25 sec)	
	We want a taxi-cab	
22	You have betrayed	
23	I am sorry but (1 min. 30 sec.)	
	When you get	
	You've left me	
24	You may NOT marry	

MUSICAL SETTING FOR "FRIEND HUSBAND"
Released by Goldwyn

The timing is based on a speed limit of 16 notes per reel (1,000 feet).

THEME—Intermezzo (2 4 Allegretto Ease' Ante) by Curtis

T.	P.	Played Until Title or Scene	Name and Character of Composition
1	T	I hate a be crue (2 min. 20 sec.)	Frills and Furbelows (Rhonda Rennee), by Crosse
2	T	In a modeling city (1 min. 30 sec.)	THEME
3	T	And the picture of John (2 min. 55 sec.)	Lento Allegro from Symphonette Suite, by Berge
4	T	The rest of the day (1 min. 45 sec.)	Valse Sentiment (6 8 Allegretto) by Carri
5	T	You go I have to marry (1 min. 20 sec.)	Dramatic Nocturne, by Peterson
6	T	I wish you would quit (2 mins.)	THEME
7	T	The bell on Judge Evans (1 min. 45 sec.)	Continue to action
8	S	Polly's at my room (40 sec.)	Intermezzo Mysterioso, by Mine
9	1	Here is your first case (2 min. 40 sec.	Scherezade, from Symphonette Suite, by Berge
10	T	We've got very busy (2 mins.	Intermezzo (Georgette), by Perrin
11	T	Oh, Judge, you've gone (2 min. 20 sec.)	THEME
12	T	Are you in the ten thousand (1 min. 20 sec.	Continue pp
13	T	I happy the bride (1 min. 45 sec.	Moo Player (Valse Caprice) by Roberts
14	S	Rastrad—view (2 min. 30 sec.)	Hawaiian (Cesne One-Step), by Lee
15	T	Is doesn't make any differ ence (40 sec.)	Rastrad Allegro No. 2, by Sarne
16	T	As the evening shades (1 min. 10 sec.)	Humoresque, by Tschaikow sky
17	T	You know, I told (3 min. 10 sec.)	Spring Song (Valse Intermezzo), by Brunni
18	T	And the next morning (2 min. 25 sec.)	Frenetic Comedy Theme, by Roberts
19	T	I overlooked (3 min.)	Evening Breeze (Allegro lo) by Lanes
20	T	When do you mean by (3 min. 25 sec.	Dramatic Recitative, by Levy
21	T	The [illegible] (2 min.)	Valse Jeune, by Schuette
22	T	My word, a [illegible] (2 min. 40 sec)	Frenetic Mysterioso, by Lake
23	T	And the stock, etc. (2 min. 30 sec.)	A Mysterious Tone Picture, by Roberts
24	S	I [illegible] (2 min. 25 sec.)	THEME
5	1	The Woodstock Powder Club (2 min. 20 sec.)	Sweetest Theme (for impending danger), by Levy
25	T	Ha, ha, ha, Jessie James (1 min. 30 sec.)	Six Minute Hurry (for new oral use) by Levy
27	T	What's the matter with my head (35 min. 25 sec)	THEME
28		Until the end (1 min. 10 sec.)	Count one 6



Florence Reed, the star, and three of the dramatic scenes from "Wives of Men," which the Pioneer Film Corporation is presenting at the Casino Theatre, August 25

EXHIBITORS! Page 3675 is your Mine of 100% service to you—Use it yours!

Silver's No. 24 Self-Feed Post Drill

With Ball Bearings and Intermediate Gear

Fast or Slow Speed

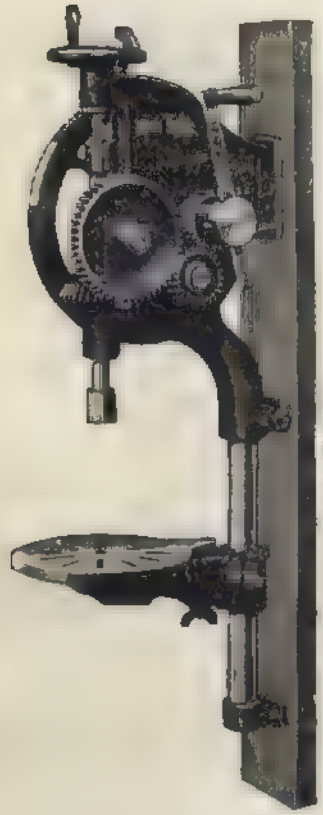


Fig. 1482

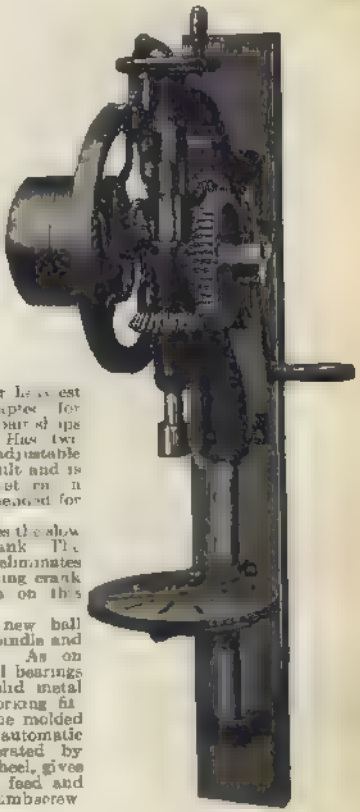


Fig. 1483

Strong and rigid for heaviest [illegible] drilling. Adapted for use in shops, repair shops, [illegible] and garages. Has two speeds, self-feed, adjustable [illegible] well built and is durable. It is easy to run, is [illegible] and is recommended for all kinds of drilling.

Fig. 1482 illustrates the slow speed position of crank. The intermediate gear eliminates the necessity of turning crank the reverse direction on this speed.

Equipped with new ball bearing feed nut. Spindle and shafts are of steel. As on high priced drills, all bearings are bored out of solid metal and reamed to a working fit. Perfect mesh machine molded gears are used. The automatic feeding device, operated by cam inside of gear wheel, gives nearly a continuous feed and can be regulated by thumbscrew.

Dimensions. Size of spindle, [illegible] inches; [illegible] spindle [illegible] inches; [illegible] common [illegible] inches; greatest distance of spindle to table, [illegible] inches; spindle turns [illegible] times to 1 turn of crank on fast speed; crank turns [illegible] times to 1 turn of spindle on slow speed; drills to center of 22 inch circle and up to [illegible] inch bar; [illegible] spindle bored for [illegible] inch shank drills, unless otherwise ordered; total weight 54 pounds; tight and loose pulleys measure 8 x 2½ inches. They should be speeded about 250 revolutions which will turn the spindle 170.

Sizes and Prices

Fig. 1482. No. 24, for hand use only, as shown, weight crated, 235 pounds	each $25 00
Fig. 1483. No. 24, for hand or belt power, weight crated, 240 pounds	each 29 00
Chuck for bit stock drills	each 1 00

Champion Post Drills

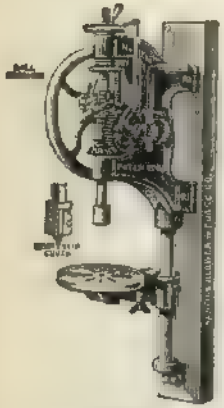


Fig. 1484

No. 200 Self-Feed and Double Compound Lever Feed Drill

No. 200. This drill has double back gears, two speeds, crank on the second speed turns in the same direction as the first speed, drills to center of a 16-inch circle. Spindle 1¼ inches in diameter and has an up-and-down run of 4 inches. Bored like Champion Patented Nevers up Chuck to take in ½-inch straight shank bits; if specially ordered, will be bored to take in ⅝-inch or ¾-inch bits. Drills holes up to 1¼ inches.

No. 203. Machine-cut double sliding back gears, which are changed in a moment for light or heavy work. The fly wheel spins on ball bearings at the bottom end of the shaft. All end friction is taken from the drill spindle by ball bearings. The self-feed is our latest design, gives bit cutting clearance, bores holes in the shortest time, less sharpening and longer life to the drill bit. It has a rack for raising and lowering the table and wheel hanger for drilling tires. Drills to center of 21-inch circle. Spindle is 1¾ inches in diameter. Has up-and-down run of 5½ inches. Bored like Champion Patented Neverslip Chuck to take in ¾ or ⅝-inch straight shank drill bits (if specially ordered, bored to take in 1-inch straight shank bits). Will drill holes up to 1⅜ inches.

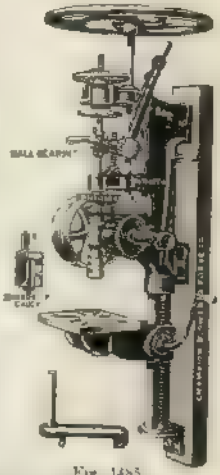


Fig. 1485

No. 203 Self Feed and Double Compound Lever Feed Drill

No. 200. Champion Self Feed and Lever Feed Post Drill, drills to center of 16-inch circle, weight 850 pounds ... each $25 00

Extra for tight and loose pulleys for power ... 3 00

No. 200½. Champion Patented Combination Automatic Self Feed and Double Compound Lever Feed Upright Post Drill, has ball bearings and drills to the center of an 18-inch circle, weight 940 pounds ... each $30 00

Extra for tight and loose pulleys, 11 inches in diameter, and 2 inch face for power, speed, 100 R P M ... $4 00

No. 201. Champion Patented Automatic Self-Feed and Double Compound Lever-Feed Upright Post Drill, with cut gears and ball bearings, drills to center of a 21-inch circle, weight 1375 lbs. each $45 00

Extra for tight and loose pulleys, 14 inches in diameter, 2½ inch face for power, speed 100 R P M ... $4 00

No. 203. Champion Patented Automatic Self Feed and Double Compound Lever Feed Upright Post Drill, with cut gears and ball bearings, drills to the center of a 21 inch circle, with cone pulleys and cone countershaft complete for power and hand combined, weight 500 pounds ... each $55 00

No. 203. Champion Patented Automatic Self Feed and Double Compound Lever-Feed Drills, as above described, with tight and loose pulleys, 11 inches in diameter and 2½ inch face, speed 180 R P M for hand and power combined, weight 425 pounds ... each $54 00

No. 203. Champion Patented Automatic Self-Feed and Double Compound Lever-Feed Drills, as above described, for hand only, weight 400 pounds ... each $50 00

No. 203½. Champion Patented Automatic Self-Feed and Double Compound Lever Feed Upright Drills, drills to the center of 21-inch circle, for hand only, weight, 600 pounds ... each $70 00

No. 203¼. Drill same as above, with tight and loose pulleys, 11 inches in diameter 2½-inch face, speed, 80 R P M., for power and hand combined, weight, 625 pounds ... each $75 00

No. 203½. Drill same as above with cone pulleys and countershaft, complete for power and hand combined, weight, 700 pounds ... each $85 00

Champion Post Drills

Fig. 1486
No. 101 Drill

No. 98. Has one speed and is back-geared. Slotted lathe-turned table. Drills to center of 14-inch circle. Spindle, 1 inch in diameter, with up-and-down run of 8 inches. Bored for ½-inch straight shank bits; if specially ordered, ¾-inch. Drills holes up to 1 inch.

No. 101. Has one speed and is back-geared. Slotted lathe-turned table. Drills to center of a 12-inch circle. Spindle, 1¼ inch in diameter, bored like Champion Patented Neverslip Chuck for ½-inch straight shank bits; if specially ordered, ¾-inch. Drills holes up to ¾-inch.

Fig. 1487
No. 98 Drill

No. 98. Champion Self-Feed Post Drill, with ball bearings; weight, 95 pounds . . . . . each $8 00
Extra, for power 3 00
No. 101. Champion Self-Feed Post Drill, with ball bearings; weight, 80 pounds . . . . . each 7 00

Fig. 1488
No. 90 Drill

No. 90. Has one speed and is back-geared. All bearings are ground out of the solid metal. Slotted lathe-turned table like all higher priced drills. Drills to center of 14½-inch circle. Spindle, 1¼ inches in diameter, with up-and-down run of 3 inches. Bored like Champion Patented Neverslip Chuck for ½-inch straight shank bits; if specially ordered, ¾-inch. Drills holes up to 1 inch.

No. 93. Has two speeds; back gears with double journal bearings. All ground out of the solid metal. Drills to center of 15-inch circle. Spindle, 1¼ inches in diameter, with up-and-down run of 3 inches. Bored for ½-inch straight shank bits; if specially ordered, ¾-inch. Drills holes up to 1¼ inches.

Fig. 1489
No. 93 Drill

No. 90. Champion Self-Feed Post Drill, with ball bearings; weight, 100 pounds . . . . . each $ 8 00
Extra, for power 3 00
No. 93. Champion Self-Feed Blackmon & Post Drill, with ball bearings, weight, 125 lbs. each 10 00
Extra, for power 3 00

Champion 14-Inch Upright Power Drill

Fig 1490

The 14-inch upright power drill is a gear driven drill. It combines the simplicity, speed and ease of operation of a sensitive drill with extreme power not usually found on drills of this kind. All beveled gears are planed. The bearings are large and powerful, the upper bearing being split to take up wear when necessary. The spindle made of high carbon steel is graduated, ground and fitted throughout with ball bearings, and is counterbalanced by a weight in the hollow column. The table is tilting and can be clamped permanently at any angle.

Number 14 inch, style of base square, drills to center of circle 7¼ inches, diameter of spindle, ⅝ inch, size of belt on cone pulley, 1½ inches, size of driving pulley, 7 x 2½ inches, speed of driving pulley, 225 r. p. m., weight 490 pounds.

Price..... each $70.00

Champion Power Bench Drill

For Light and Rapid Drilling

Dimensions

Drills to center of a 9-inch circle, bores holes up to ⅜ inch in diameter, up and down run of spindle 3¼ inches, up and down run of table 9 inches, greatest distance from table to spindle 10 inches, greatest distance from planed base to spindle 16 inches, diameter of column 2½ inches, size tight and loose pulleys 4 x 1¾ inches, size of large cone pulley 4½ x 1½ inches, size of small cone pulley 3 x 1½ inches, spindle is bored with No. 1 morse taper hole, height 32 inches, weight 80 pounds..... each $30.00

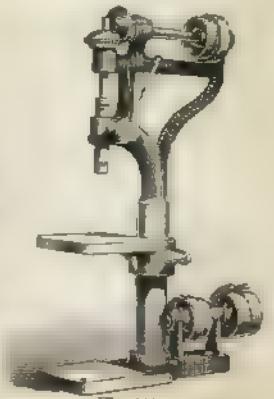


Fig 1491

IVER JOHNSON REVOLVERS

DOUBLE ACTION—AUTOMATIC EJECTING

HAMMER—WALNUT GRIP

One Piece Large Walnut Grip, Smooth Finish, No Side Screws; Grip Fastened to Frame on Under Side; Regular Frame. Especially Adapted to the Needs of Sportsmen, Target Shooters, Police Officers and Night Watchmen.

32 Caliber; 5 Shots; Shoots 32 S&W Center Fire Cartridges

	Each
Nickel Plated	
No. 324IWG—4-inch Barrel; Weight 16 ozs.	$14.00
Blued	
No. 2324IWG—4-inch Barrel; Weight 16 ozs.	14.50

One in a Box

38 Caliber; 5 Shots; Shoots 38 S&W Center Fire Cartridges

	Each
Nickel Plated	
No. 384IWG—4-inch Barrel; Weight 18 ozs.	$14.00
Blued	
No. 2384IWG—4-inch Barrel; Weight 18 ozs.	14.50

One in a Box

SMITH AND WESSON REVOLVERS

REGULATION POLICE MODEL.

Double Action, Solid Frame, Swing Out Cylinder, New Patent Safety Hammer Block, Checkered Wood Stock.

32 Caliber, 6 Shot, Shoots 32 S&W 32 S&W Long and 32 Colt's New Police Center Fire Cartridges

	Each
Nickel Plated	
No. 3231/2SRP—3½ in. Barrel; Weight 19 oz.	$31.50
No. 324 SRP—4½ in. Barrel; Weight 20 oz.	31.50
No. 326 SRP—6 in. Barrel; Weight 21¼ oz.	31.50
Blued Finish	
No. 2323½SRP—3½ in. Barrel; Weight 19 oz.	31.50
No. 2324 SRP—4½ in. Barrel; Weight 20 oz.	31.50
No. 2326 SRP—6 in. Barrel; Weight 21¼ oz.	31.50

One in a Box

38 Caliber, 5 Shot, Shoots 38 S&W 38 S&W Gallery and 38 Short Colts Center Fire Cartridges.

	Each
Nickel Plated	
No. 384SRP—4 in. Barrel; Weight 17¾ ozs.	$31.50
Blued Finish	
No. 2384SRP—4 in. Barrel; Weight 17¾ ozs.	31.50

One in a Box

SMITH & WESSON REVOLVERS

DOUBLE ACTION WITH AUTOMATIC SHELL EXTRACTOR

32 Caliber; 5 Shots; Rubber Handle; Shoots 32 S&W Central Fire Cartridges.

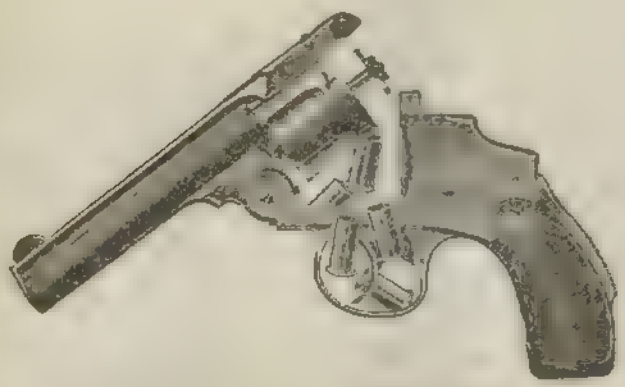
Nickel Plated

	Each
No. 323S—3 inch Barrel; Weight 12½ ozs.	**$25 70**

Blued

No. 2323S—3 inch Barrel; Weight 12½ ozs.	**25.70**

†Engraving to Order, $8 00 to $14.00
One in a Box



HAMMERLESS SAFETY, WITH AUTOMATIC SHELL EXTRACTOR, REBOUNDING LOCK AND PATENT SAFETY ATTACHMENT

32 Caliber; 5 Shots; Rubber Handle, Shoots 32 S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 323SH—3 inch Barrel; Weight 14¼ ozs.	**$27 20**

Blued

No. 2323SH—3 inch Barrel; Weight 14¼ ozs.	**27 20**

Engraving to Order, $10.00 to $30.00
One in a Box

38 Caliber; 5 Shots; Rubber Handle; Shoots 38 S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 383¼SH—3¼ inch Barrel, Weight 17 ozs.	**$30 50**
No. 384SH—4 inch Barrel; Weight 17¼ ozs.	**30.50**

Blued

No. 2383¼SH—3¼ inch Barrel, Weight 17 ozs.	**30 50**
No. 2384SH—4 inch Barrel; Weight 17¼ ozs.	**30.50**

Engraving to Order, $10.00 to $30.00

One in a Box

PERFECTED MODEL

Double Action with Automatic Shell Extractor

38 Caliber; 5 Shots; Rubber Handle, Split Latch. Shoots 38 S&W Central Fire Cartridges.

The Cylinder in this Perfected Model is Perfectly Locked, Assuring Proper Alignment with the Barrel. The Rebound Block Guards Against Accidental Discharge. The Shells are Automatically Extracted.

Among New Features are its Heavier Frame, its Frame and Guard in One, its Barrel and Sight in One and its Double Locking Device. In this Model for the First Time the Flat Springs, Often a Source of Trouble, have been Replaced by the Serviceable Spiral Springs.

Nickel Plated

	Each
No. 383½SWP—3½ inch Barrel; Weight 19½ ozs.	**$30.50**
No. 384SWP—4 inch Barrel; Weight 20 ozs.	**30.50**

Blued

No. 2383½SWP—3½ inch Barrel; Weight 19½ ozs.	**$30.50**
No. 2384SWP—4 inch Barrel; Weight 20 ozs.	**30.50**

One in a Box

DOUBLE ACTION HAND EJECTING

22 PERFECTED HAND EJECTOR

Solid Frame; Swing-out Cylinder; Rebounding Lock; Provided with Front Cylinder

22 Caliber; 7 Shots; Square Walnut Stock, not Checked; Shoots 22 SRF, 22 LRF or 22 S&W Rim Fire Cartridges.

Nickel Plated

	Each
No. 223SN—3 inch Barrel; Weight 11 ozs.	**$27 30**

Blued

No. 2223SN—3 inch Barrel; Weight 11½ ozs.	**27.30**

One in a Box

MODEL 1903

Solid Frame; Swing-out Cylinder; Rebounding Lock; Provided with Front Cylinder Lock

32 Caliber; 6 Shots; Rubber [illegible] S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 323½SN—3¼ inch Barrel; Weight 17¾ ozs.	**$31 50**
No. 324½SN—4¼ inch Barrel; Weight 18½ ozs.	**31 50**

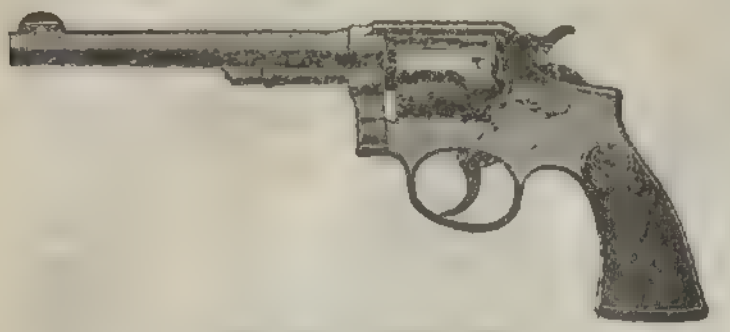
Blued

No. 2323½SN—3¼ inch Barrel; Weight 18½ ozs.	**$31 50**
No. 2324½SN—4¼ inch Barrel; Weight [illegible] ozs.	**31 50**
No. 2326SN—6 inch Barrel; Weight 20 ozs.	**31.50**

One in a Box

SMITH & WESSON REVOLVERS

DOUBLE ACTION—HAND EJECTING



MILITARY MODEL 1905

Solid Frame; Swing Out Cylinder; Loose Hammer Nose; Provided with Front Cylinder Lock; enlarged breech.

32 Caliber; 6 Shots; Checked Walnut Square Stock; Shoots 32 WCF Cartridges

Nickel Plated	Each
No. 324MM—4 inch Barrel; Weight 31 ozs.	$33.50

Blued	Each
No. 2324MM—4 inch Barrel; Weight 31 ozs.	$33.50
No. 2326MM—6 inch Barrel; Weight 33 ozs.	33.50

38 Caliber; 6 Shots; Checked Walnut Square Stock; Shoots 38 S. & W. Special or 38 Long Colt U. S. Service Cartridges.

Nickel Plated	Each
No. 384MM—4 inch Barrel; Weight 29 ozs.	$33.50
No. 386MM—6 inch Barrel; Weight 30 ozs.	33.50

Blued	Each
No. 2384MM—4 inch Barrel; Weight 29 ozs.	$33.50
No. 2385MM—5 inch Barrel; Weight 30 ozs.	33.50
No. 2386MM—6 inch Barrel; Weight 31 ozs.	33.50

One in a Box

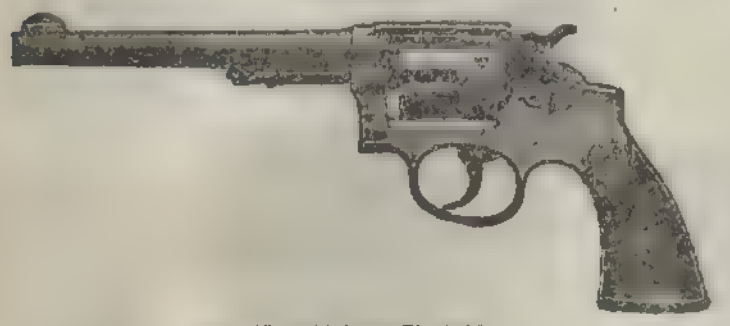
MILITARY MODEL 1905 WITH TARGET SIGHTS

Solid Frame; Swing Out Cylinder; Loose Hammer Nose; Provided with Front Cylinder Lock; Enlarged Breech

38 Caliber; 6 Shots; **Checked Walnut Square Stock;** Target Sights, for Accurate Work; Shoots 38 S. & W. Special or 38 Long Colt U. S. Service Cartridges.

Blued	Each
No. 2386MMT—6 inch Barrel; Weight 31 ozs.	$38.60

One in a Box



MILITARY MODEL 1902

Solid Frame; Swing Out Cylinder; Rebounding Lock; Provided with Front Cylinder Lock.

38 Caliber; 6 Shots; Knurled Handle; Shoots 38 S&W Special or 38 Long Colt U. S. Service Cartridges.

Nickel Plated	Each
No. 384SM—4 inch Barrel; Weight 29 ozs.	$31 80
No. 385SM—5 inch Barrel; Weight 30 ozs.	31 80
No. 386SM—6 inch Barrel; Weight 31 ozs.	31 80

Blued	
No. 2384SM—4 inch Barrel; Weight 29 ozs.	$31 80
No. 2385SM—5 inch Barrel; Weight 30 ozs.	31 80
No. 2386SM—6 inch Barrel; Weight 31 ozs.	31 80
Special Target Sights, Extra	31 80

One in a Box

MILITARY MODEL 1908

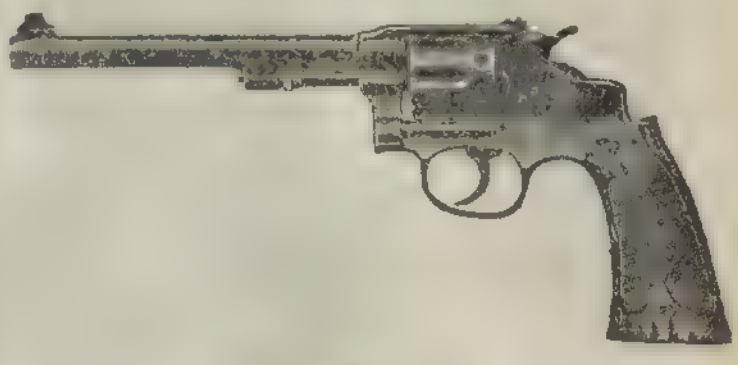
Solid Frame; Swing Out Cylinder; Loose Hammer Nose; Provided with Front Cylinder Lock; Enlarged Breech

44 Caliber; 6 Shots; Checked Walnut Square Stock; Shoots 44 S. & W Special or 44 S. & W. Russian Cartridges

Nickel Plated	Each
No. 444MM—4 inch Barrel; Weight 34 ozs.	$36 20
No. 445MM—5 inch Barrel; Weight 37 ozs.	36 20
No. 446MM—6 inch Barrel; Weight 39 ozs.	36 20

Blued	Each
No. 2444MM—4 inch Barrel; Weight 34 ozs.	$36 20
No. 2445MM—5 inch Barrel; Weight 37 ozs.	36 20
No. 2446MM—6 inch Barrel; Weight 39 ozs.	36 20

One in a Box



MODEL 1911

Heavy Frame Target Revolver

Solid Frame; Swing-Out Cylinder; Rebounding Lock; Provided with Front Cylinder Lock

	Each
No. 2226STG—22 Caliber; Shoots 22 Long Rifle Rim Fire Cartridges only; 6 Shots; 6 inch Barrel; Trigger Pull Under 4 lbs.; S and W Target Sights; Circassian Walnut Checkered Wood Grip, Inlaid with S and W Gold Monogram; Weight 23 ozs.	$32.00

One in a Box

COLT REVOLVERS

DOUBLE ACTION SIMULTANEOUS HAND EJECTING

NOTE Our Stock of Colt Revolvers Comprises All the Best Selling Styles. Any Other Style, Caliber or Finish Made by the Colt Patent Fire Arms Mfg. Co., which We Do Not Illustrate, We Can Furnish Promptly by Shipping Direct From Factory.

POCKET POSITIVE

Jointless Solid Frame; Swing-out Cylinder; Rubber Handle; Positive Lock.

32 Caliber; 6 Shots; Chambered for S&W Cartridges.

Nickel Plated

	Each
No. 322½P—2½ inch Barrel; Weight 16 ozs.	$26 00
No. 323½P—3½ inch Barrel; Weight 16½ ozs.	26 00
No. 328P —6 inch Barrel; Weight 18 ozs.	26 00

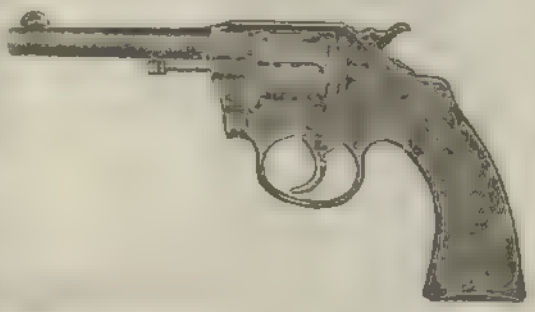
Blued

No. 2322½P—2½ inch Barrel, Weight 16 ozs.	$26 00
No. 2323½P—3½ inch Barrel, Weight 16½ ozs.	26 00
No 2328P —6 inch Barrel; Weight 18 ozs.	26 00

One in a Box

POLICE POSITIVE

Adopted by the Police Departments of the Principal Cities of the United States and Canada
Jointless Solid Frame; Swing-out Cylinder; Rubber Handle, Positive Lock



32 Caliber; 6 Shots; Shoots 32 Short or Long Colt CF Cartridges.

Nickel Plated

	Each
No. 324CP—4 inch Barrel; Weight 18 ozs.	$28 00
No. 325CP—5 inch Barrel; Weight 18½ ozs.	28 00

Blued

No. 2324CP—4 inch Barrel; Weight 18 ozs.	28 00
No. 2325CP—5 inch Barrel, Weight 18½ ozs.	28 00
No. 2326CP—6 inch Barrel; Weight 19 ozs.	28 00

One in a Box

38 Caliber; 6 Shots; Shoots 38 Colt Police Positive and 38 S&W Cartridges.

Nickel Plated

	Each
No. 384PP—4 inch Barrel; Weight 20 ozs.	$28 00
No. 385PP—5 inch Barrel, Weight 21 oz.	28 00
No. 386PP—6 inch Barrel; Weight 21½ ozs.	28 00

Blued

No. 2384PP—4 inch Barrel; Weight 20 ozs.	28 00
No. 2385PP—5 inch Barrel; Weight 21 oz.	28.00
No. 2386PP—6 inch barrel; Weight 21½ ozs.	28 00

One in a Box

32 Caliber; 6 Shots, Shoots 32 Colt Police Positive Full and Gallery Loads, or 32 S&W Short and Long Cartridges

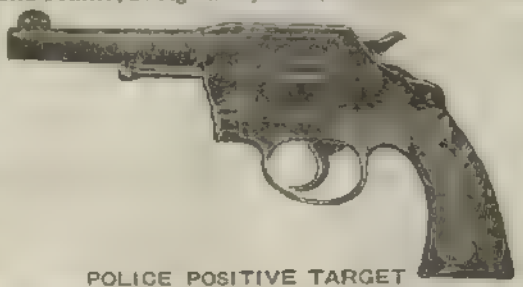
	Each
No. S3324CP—4 inch Barrel; **Blued;** Weight 18 ozs.	$28 00

One in a Box

✢ Any Other Length or Finish of 32 Caliber Police Positive Can be Furnished from the Factory, Chambered to Take 38 Colt Police Positive Full and Gallery Loads, or 32 S&W Short and Long Cartridges.

POLICE POSITIVE SPECIAL

Jointless Solid Frame; Swing-out Cylinder; Rubber Handle; Positive Lock



32 Caliber; 6 Shots; Shoots 32-20 WCF Rifle Cartridges.

Blued

	Each
No. 2324PS—4 inch Barrel; Weight 22 ozs.	$29 00
No. 2325PS—5 inch Barrel, Weight 23 ozs.	29.00
No. 2326PS—6 inch Barrel; Weight 24 ozs.	29 00

One in a Box

38 Caliber; 6 Shots; Shoots 38 Short or Long Colt, 38 Colt Special and 38 S&W Special Full or Mid-range Loads.

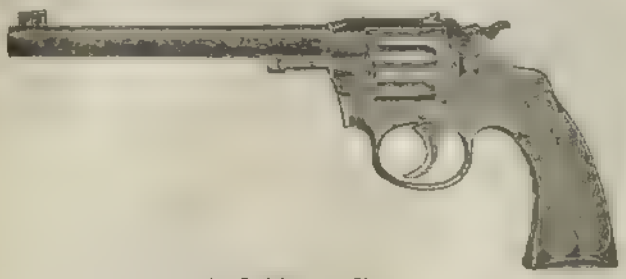
Blued

	Each
No. 2384PS—4 inch Barrel; Weight 20 ozs.	$29 00
No. 2385PS—5 inch Barrel, Weight 21 ozs.	29 00
No. 2386PS—6 inch Barrel; Weight 21 ozs.	29.00

One in a Box

POLICE POSITIVE TARGET

Jointless Solid Frame; Swing-out Cylinder; Rubber Handle; Positive Lock, Black Rear Sight, Adjustable for Windage; Removable Front Sight Blade Fastened by Screw.



22 Caliber; 6 Shots

Blued

	Each
No. 2226CPT—Shoots 22 W. R. F. Cartridges Only; 6 inch Barrel; Entire Length 10½ inches; Weight 22 ozs.	$30 00
No. S2226CPT—Shoots 22 Short and Long; Rim Fire Cartridges only	30 60

32 Caliber; 6 Shots; Shoots 32 Short or Long Colt CF Cartridges

Blued

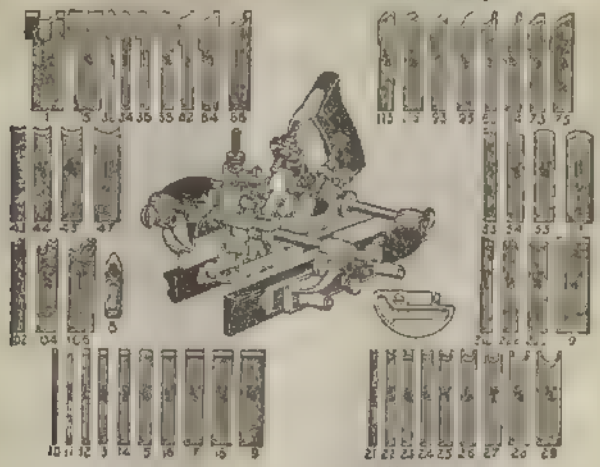
	Each
✢ No. 2326CPT—6 inch Barrel; Entire Length 10½ inches; Weight 1[illegible] ozs.	$30 00

✢ Can also be Furnished from the Factory, Chambered to Take 32 Colt Police Positive Full and Gallery Loads, and 32 S&W Short and Long Cartridges.

One in a Box

NOTE -All "Positive" Revolvers are Equipped with a Positive Lock, which is Arranged Between the Face of the Hammer and the Frame, Operating Automatically Only when the Trigger is Pulled, and at All Other Times Preventing the Firing-Pin from Coming in Contact with the Cartridge, Thereby Insuring Against Accidental Discharge.
Items Marked ✢ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Hartford, Conn.

COMBINATION PLANES



STANLEY "FIFTY FIVE" PLANE

This Tool, in addition to being a Beading and Center Beading Plane, a Plow, Dado, Rabbet, Filletster, and Match Plane, a Sash Plane and a Slitting Plane, is also a superior Moulding Plane, and will accommodate cutters of almost any shape and size. In fact, it is **"A Planing Mill Within Itself."**

The regular equipment sent with the Plane compriaes fifty-two cutters, all of which are shown in the cut. These cutters, together with the Plane and all its attachments, are packed in a neat steel box.

All metal parts of the Plane are nickel plated. The handle and fences are made of selected rosewood, and every part is well finished

Each

No. 55—Nickel Plated; With 52 Cutters; Weight 15¼ lbs.....**$31.80**

Some Work of "Fifty Five" Plane

The samples of work illustrated, show some of the mouldings that can be made with cutters regularly furnished with this Plane.

When it is considered, that in addition to the fifty-two regular cutters and the forty-one special cutters, the plane will take practically any form of cutter desired, its wide range of work will be appreciated.

The Plane has: A Main Stock, "A", which carries the cutter adjustment, a Handle, a Depth Gauge, a Slitting Gauge, and has a Steel Bottom forming a bearing for one edge of the cutter. A Sliding Section, "B", with a steel bottom gives bearing for the other edge of the cutter and slides on arms secured in the Main Stock. This bottom can be raised or lowered so that, in addition to allowing the use of cutters of different widths, cutters can be used having one edge higher or lower than the edges upported in the Main Stock. An extra support or stop is necessary for cutters which first enter the wood at a point between the outside edges, and is a benefit for such cutters which, if the Plane were accidentally tilted, would tend to gouge the work. The Auxiliary Center Bottom, "C", which can be adjusted for width or depth, fulfils this requirement. Fence, "D", has a lateral adjustment, by means of a screw, for extra fine work. The Fences can be used on either side of the Plane, and the rosewood guides can be tilted to any desired angle up to forty-five degrees, by loosening the screws on the face. Fence, "E", can be reversed for center beading wide boards.

The Plane is fitted with Spurs for working across the grain, and a special Cam Rest, to be located on the front arm when working at a distance from the edge of the board, to keep the Fence from sagging, or on the rear arm on certain work, to prevent the possibility of the Plane rocking. All parts are interchangeable.

The four small cuts in the corners, show how the bottoms should be set for different forms of cutters, and the great importance of having the Fences adjusted so that the cutters will not run.

✠EXTRA CUTTERS FOR "FIFTY FIVE" PLANE

The following cutters are furnished with each Plane. The price is given in case duplicates should be required.

Note—Prices Given Below are Manufacturers Lists. Quotations Upon Request.

No.	Size.	Style	Each
1	1/16 in.	Sash Tool	$0.50
5	1/4 in.	Match Tool	.50
8	in.	Slitting "	.30
9	1-1/4 in.	Filletster	.25
10	in.	Plow & Dado Tool	.15
11	in.	" "	.15
12	in.	" "	.15
13	in.	" "	.15
14	in.	" "	.20
15	in.	" "	.20
16	in.	" "	.20
17	in.	" "	.20
18	in.	" "	.20
19	in.	" "	.25
21	in.	Beading Tool	.15
22	in.	"	.15
23	in.	"	.15
24	in.	"	.20
25	in.	"	.20
26	in.	"	.25
27	in.	"	.25
28	in.	"	.30
29	in.	"	.30
32	in.	Fluting Tool	.30
34	in.	"	.30
36	in.	"	.30
38	1/4 in.	Fluting Tool	$0.30
43	in.	Hollow	.20
44	in.	"	.20
45	in.	"	.20
47	in.	"	.20
53	in.	Round	.20
54	in.	"	.20
55	in.	"	.20
57	in.	"	.20
62	in.	Quarter Hollow	.45
64	in.	"	.50
73	in.	" Round	.45
75	in.	"	.50
82	in.	Reverse Ogee	.45
84	in.	"	.50
86	in.	"	.50
93	in.	Roman "	.45
95	in.	"	.50
102	in.	Grecian "	.45
104	in.	"	.50
106	in.	"	.50
113	in.	1/4 Round with Bead	.45
115	5/8 in.	1/4 " "	.50
212	1/8 in.	Reeding, Tool 2 Beads.	.20
222	3/16 in.	" " 2 "	.20
232	1/4 in.	" " 2 "	.20

✠SPECIAL CUTTERS FOR "FIFTY FIVE" PLANE

Note—Prices Given Below are Manufacturers Lists. Quotations Upon Request.

No.	Size	Style	Each
2	1/16 in.	Sash Tool	$0.45
6	in.	Match Tool	.45
31	1/8 in.	Fluting Tool	.30
33	in.	"	.30
35	7/16 in.	"	.30
37	in.	"	.30
42	in.	Hollow	.20
46	in.	"	.20
52	in.	Round	.20
56	7/16 in.	"	.20
61	in.	Quarter Hollow	.45
63	5/16 in.	" "	.45
65	3/8 in.	" "	.50
66	1 in.	" "	.50
71	in.	Quarter Round	.45
72	in.	" "	.45
74	3/4 in.	" "	.50
76	1 in.	" "	.50
81	in.	Reverse Ogee	.45
83	5/8 in.	" "	.45
85	7/8 in.	" "	.50
91	3/8 in.	Roman Ogee	$0.45
92	in.	" "	.45
94	3/4 in.	" "	.50
96	1 in.	" "	.50
101	in.	Grecian Ogee	.45
103	in.	" "	.45
105	in.	" "	.50
111	3/8 in.	1/4 Round with Bead	.45
112	1/2 in.	1/4 " " "	.45
114	5/8 in.	1/4 " " "	.50
116	1 in.	1/4 " " "	.50
213	1/8 in.	Reeding Tool 3 Beads.	.30
214	1/4 in.	" " 4 "	.40
215	1/8 in.	" " 5 "	.50
223	3/16 in.	" " 3 "	.30
224	1/4 in.	" " 4 "	.40
225	1/8 in.	" " 5 "	.50
233	1/4 in.	" " 3 "	.30
234	1/4 in.	" " 4 "	.40
235	1/4 in.	" " 5 "	.50

Items Marked ✠ Not Carried in Stock; Can only be Furnished by Shipping Direct From Factory New Britain, Conn.

COMBINATION PLANES

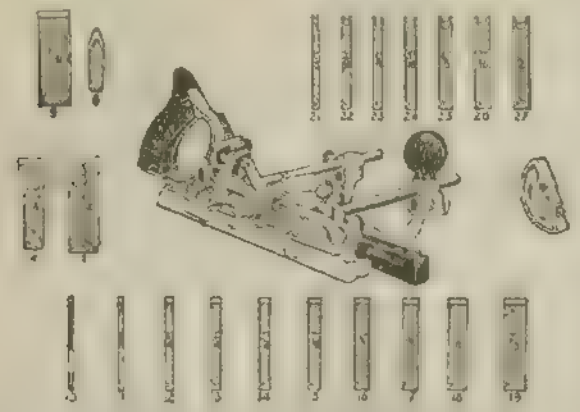
STANLEY

Plow, Beading and Matching

This is a very handy tool for light work. It consists of a main stock, carrying a spur and a depth gauge, and forming a support for one side of the cutter; a sliding section, carrying a spur and forming a support for the other side of the cutter, and a fence with a 5-inch adjustment. The handle is metal, being a part of the main stock. Each

No. 50—Nickel Plated Cast Iron; Length 9¼ inches; Fifteen Cutters, comprising 7 plow and dado bits, ¼, 5/16, ⅜, 7/16, ½, ⅝ and ¾ inch; 7 beading tools, ⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½ inch; and a ¼ inch tonguing tool; Weight 3½ lbs. **$8.50**

One in a Box.



STANLEY "FORTY-FIVE PLANE"

Seven tools in one in compact and practical form. 1—Beading and Center Beading Plane. 2—Plow. 3—Dado. 4—Rabbet and Filletster. 5—Match Plane. 6—Sash Plane. 7—Slitting Plane.

The Plane has two principal parts, a main stock and a sliding section. The main stock carries the handle, cutter adjustment, a slitting tool, depth gauge, and forms a bearing for one edge of the cutter. The sliding section slides on two arms secured in the stock and has a bearing for the other edge, allowing cutters of different widths to be used. A fence also slides on these arms for use when working as a plow, beader or filletster, to gauge the distance from the cutter to the edge of the board, and to keep the cutter at right angles to same. When used as a filletster, the fence slides under the bottom of the Plane and determines the width of cutter exposed to the work.

The Plane is fitted with spurs for use across the grain, etc., and can be used either right or left hand.

With each Plane are furnished twenty-one cutters, all of which are shown in the cut. The cutters, together with the Plane, are packed in a neat steel box.

All metal parts are nickel plated. The handle, knob and fence are made of selected rosewood. For beading at a distance from the edge of a board, attach cam rest (see cut at right of Plane) to the front arm between the sliding section and fence to prevent the fence sagging. In certain work attach same to the rear arm to prevent the Plane from rocking. Each

No. 45—Nickel Plated; With 21 Cutters; Wt. 9½ lbs. **$16 00**

One in a Box.

✣EXTRA CUTTERS FOR "FORTY-FIVE" PLANES

The following cutters are furnished with each Plane. The price is given in case duplicates should be required.

NOTE—Prices Given Below are Manufacturers Lists. Quotations Upon Request.

No.	Size	Style	Each
1	1½ in.	Sash Tool	$0 50
5	¼ in.	Match Tool	.50
8		Slitting Tool	.10
9	1¼ in.	Filletster	.25
10	⅛ in.	Plow & Dado Tool	.15
11	3/16 in.	" " "	.15
12	¼ in.	" " "	.15
13	5/16 in.	" " "	.15
14	⅜ in.	" " "	.20
15	7/16 in.	" " "	.20
16	½ in.	" " "	.20
17	⅝ in.	Plow & Dado Tool	$0.20
18	¾ in.	" " "	.20
19	⅞ in.	" " "	.25
21	⅛ in.	Beading Tool	.15
22	3/16 in.	" "	.15
23	¼ in.	" "	.15
24	5/16 in.	" "	.15
25	⅜ in.	" "	.20
26	7/16 in.	" "	.20
27	½ in.	" "	.20

COMBINATION PLANES

✣SPECIAL BOTTOMS FOR "FORTY-FIVE" PLANE

In order to work Hollows and Rounds, or a Nosing Cutter in the No. 45 Plane, it is necessary to substitute, for the sliding section, specially formed bottoms which are called by the same name as the cutters they are designed to carry, that is: Hollows, Rounds or Nosing Tools.

A Hollow and its cutters will form a **Round** on the moulding being worked. A Round and its cutters will form a **Hollow.** A Nosing Tool and its cutters will form what might be called an exaggerated Round. It is very largely used for shaping the edges of stair treads. Hollows and Rounds are made in four sizes and are usually sold in sets, a set comprising one Hollow, one Round and two Cutters. The price of a Nosing Tool includes one Cutter. Per Pair

No. 6—Hollow and Round; ⅛ in. Cutters; Work ¾ in. Circle **$3 00**

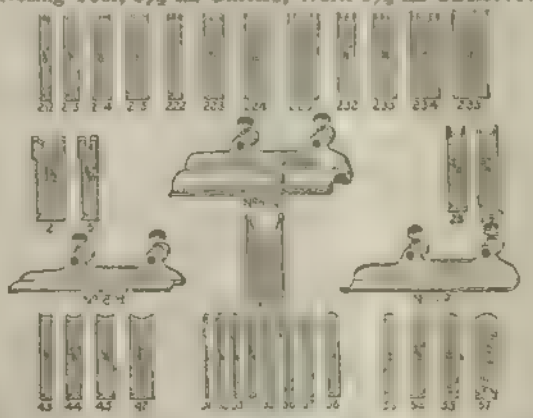
No. 8—Hollow and Round; ⅜ in. Cutters; Work 1 in. Circle **3 00**

No. 10—Hollow and Round; ½ in. Cutters; Work 1¼ in. Circle **3 30**

No. 12—Hollow and Round; 1 in. Cutters; Work 1½ in. Circle **3 30**

Each

No. 5—Nosing Tool; 1¼ in. Cutters; Work 1¼ in. Circle..... **$2 50**



✣SPECIAL CUTTERS FOR "FORTY-FIVE" PLANE

NOTE—Prices Given Below are Manufacturers Lists. Quotations Upon Request.

No.	Size	Style	Each
2	1 in.	Sash Tool	$0 50
6	¼ in.	Match Tool	.50
23	⅜ in.	Beading Tool	.40
29	⅝ in.	" "	.60
31	¾ in.	" "	.70
32	⅞ in.	" "	.80
33	1 in.	" "	.90
34	1¼ in.	" "	.90
35	1½ in.	" "	.90
36	1¾ in.	" "	.90
37	2 in.	" "	.90
38	2¼ in.	" "	.90

No.	Size	Style	Each
212	⅛ in.	Reeding Tool 2 Beads	$.20
213	3/16 in.	" " "	.30
214	¼ in.	" " "	.40
215	5/16 in.	" " "	.50
222	7/16 in.	" " "	.60
223	½ in.	" " "	.70
224	9/16 in.	" " "	.80
225	⅝ in.	" " "	.90
232	¾ in.	" " "	1.00
233	⅞ in.	" " "	1.10
234	1 in.	" " "	1.20
235	1¼ in.	" " "	1.30

STANLEY

Bull Nose Plow, Filletster and Matching

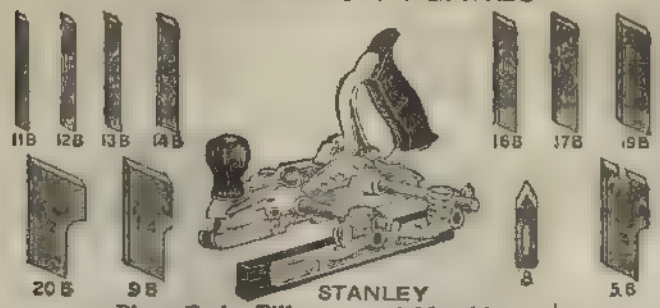
This Plane has two interchangeable front parts that make it either an ordinary plow or a bull nose plow. With the bull nose attachment the cutter will easily work up to and into a ½ inch hole or any large size as in sash fitting, stair work, etc. It consists of a main stock, carrying a spur, depth gauge, and [illegible] stock [illegible] plow cutters of different widths), a fence which can be set for either plow or filletster work, and a separate filletster bottom. Each

No. 141—Nickel Plated Cast Iron; Rosewood Handle; Length 9¼ inches; Eleven Cutters, Comprising 8 plow bits, ⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½ and ⅝ inch; a 1½ inch filletster cutter; a ¼ inch tonguing tool, and a slitting cutter; Weight 5½ lbs. **$10 00**

One in a Box

Items Marked ✣ not Carried in Stock; Can only be furnished by shipping direct from Factory, New Britain, Conn.

COMBINATION PLANES



Plow, Dado, Filletster and Matching

Skew cutters are the feature of this Plane. It consists of a main stock carrying a spur, a depth gauge and a slitting cutter, a sliding section carrying a spur and forming an extra sole for the Plane, and a fence rosewood face, which can be set for either plow or filletster work

Each

No. 66—Nickel Plated Cast Iron; Rosewood Handle and Knob; Length 10½ inches; Eleven Cutters, Comprising 8 plow and dado bits, 3/16, ¼, 5/16, ⅜, ½, ⅝, ¾ and 1¼ inch; a 1½ inch Filletster cutter; a ¼ inch tonguing tool, and a slitting cutter; Weight 5¾ lbs..... **$11.00**

Dado

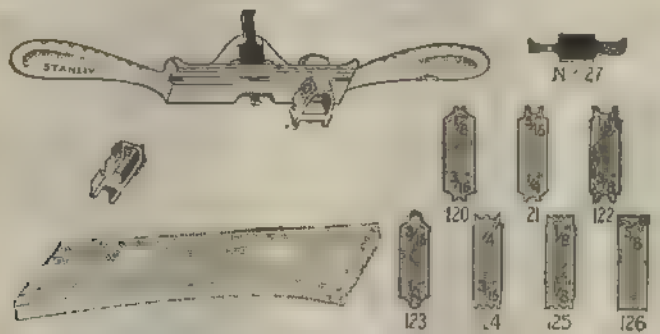
This is the main stock with spur, slitting tool, depth gauge and the sliding section with spur, used in Plane No. 46, but without the fence, and with fewer cutters.

Each

No. 47—Nickel Plated Cast Iron; Rosewood Handle and Knob; Length 10½ inches; Six Cutters, Comprising 5 dado bits, ⅜, ½, ⅝, ¾ and 1¼ inch; also one Slitting Cutter; Weight 3¾ lbs..... **$8.60**

One in a Box.

BEADING TOOLS



STANLEY UNIVERSAL; TWO-HANDED

This is an excellent tool for beading, reeding or fluting straight or irregular surfaces and for light routering. The sample illustrated shows some of the work that can be done with its use. With each beader are furnished a square guage for straight work and an oval gauge for curved work. There are also furnished eight cutters sharpened at both ends and embracing the following assortment, 6 single beads, ⅛, 3/16, ¼, 5/16 and ⅜ and ½ inches; 2 fluting tools, 3/16 and ¼ inches; 4 reeding tools, (2 beads 3/16 inch, 3 beads ¼ inch, and 3 beads ⅛ inch and 4 beads ⅛ inch), 2 routers ⅛ and ¼ inch, and a ⅝ inch blank, which latter cutter the owner can file up as he desires.

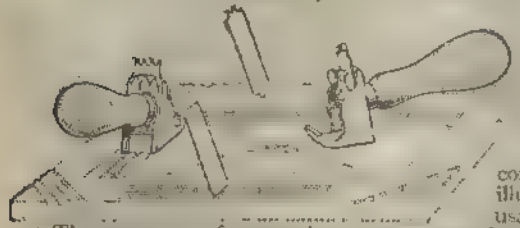
The handles are curved so as to insure ample room between the workman's hands and the surface of the work.

Per Dozen

No. 66—Iron, Nickel Plated; Length 11½ inches; Eight Cutters; Weight 1½ lbs. **$17.70**

One in a Box.

STANLEY; SINGLE HANDED



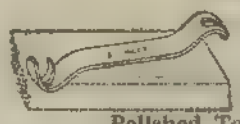
This is a very handy little article. With it one can do all kinds of straight beading, reeding or fluting. The sample of work shown in connection with the tool illustrates some of the usages to which it can be put. The assortment of cutters that accompany each tool, comprises single beads, ⅛, 3/16, ¼, 5/16, ⅜ and ½ inches, 2 fluting tools, 3/16 and ¼ inches, 4 reeding tools, (3 beads 3/16 inch, 2 beads ¼ inch, 3 beads ⅛ inch and 4 beads ⅛ inch), and a ⅝ blank.

Per Dozen

No. 69—Nickel Plated Metal Body; Maple Handle; Length 5 inches; Seven Cutters; Weight ⅝ lb..... **$16.50**

One in a Box.

CORNERING TOOLS



STANLEY

These tools are used by Pattern Makers and all wood-workers for rounding sharp edges. They have a different size cutter at each end and their form is such that no depth gauge is required.

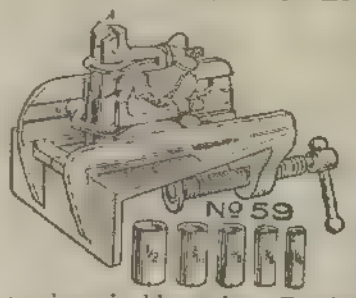
Polished Tool Steel; Length 5½ inches.

Per Dozen

No. 28—1/16 and ⅛ inch Cutter; Weight Dozen 1½ lbs..... **$5.00**
No. 29—3/16 and ¼ inch Cutter; Weight Dozen 1½ lbs..... **5.20**

Half Dozen in a Box.

DOWELING JIGS



STANLEY

This Tool is made for the purpose of enabling the user to Bore Dowel Holes in the Edge End or Surface of Work with the greatest Ease and Accuracy. It will Cut any thickness of Material up to 8 inches.

It also will be found an excellent Bit Guide for Mortising. When making Dowel Holes with the Doweling Jig the Steel Guide is Automatically Set to guide the Bit properly when the Jig is Clamped to the work as shown in Illustration. Furnished with Five Steel Guides 1¼ inches Long; One each ¼, 5/16, ⅜, 7/16 and ½ inch. To allow for Variations in Size of Bits the Guides are made 1/100 inch Larger than the Sizes given.

Each

No. 59—Nickel Plated Cast Iron Body, 6¾ inches Long; Weights each 1½ lbs..... **$3.70**

One in a Box.

DOWEL SHARPENERS

STANLEY

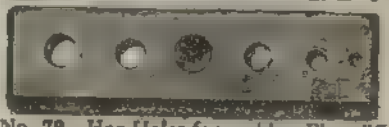
This Tool is the Reverse of the Countersink and can be Sharpened with equal Ease. By its use Dowel Pins can be Sharpened Rapidly and Uniformly.

Per Dozen

No. 22—Made of Malleable Iron; Nickel Plated; Sharpens Dowel Pins up to ¼ inch; Weight per Dozen 1¼ lbs. **$4.50**

Half Dozen in a Box.

DOWEL PLATES



Used for Making Wood Dowel Pins

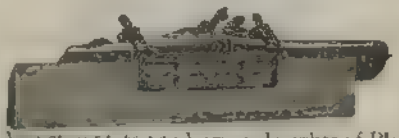
Made of High Grade Tool Steel; Full Polished and properly Tempered.

Per Dozen

No. 78—Has Holes for making Five different Sizes of Dowel Pins ¼, 5-16, ⅜, 7-16 and ½ inch Diameter; Size of Plate 6x1½x⅝ inches; Weight each ⅛ lb..... **$9.00**

One Dozen in a Box.

JOINTER OR PLANE GAUGES



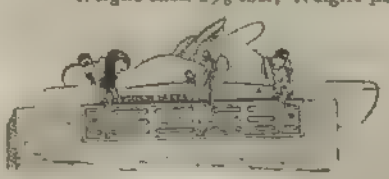
★*DIAMOND EDGE*,

Can be Adjusted to any Jack or Jointer Plane, Wood or Iron; Adjustable for Squaring or any Desired Bevel; Arms are Slotted to Provide Adjustment to the Various Heights of Planes, Quickly Secured or Released by Turning Set Screw in Slot and by a Partial Turn of Cam Lever.

For Wood Planes Substitute Round Head Wood Screws for Cam Levers.

Per Dozen

No. DE145—9 inches Long; Japanned Iron Clamp Bar and Cam Lever Clamps; Plain Nickel Plated Gauge Plate; Machined Planer Surface; Polished Nickel Plated Trimmings; Weight each 1⅛ lbs.; Weight per Dozen 22½ lbs..... **$36.60**



STANLEY ADJUSTABLE

This Jointer Gauge is designed for use in connection with all Sizes of Iron Jacks or Jointer Planes. Enables the Workman to Plane Bevels of any Angle between 30 and 90 Degrees or to Square up the Edges of Boards with extreme Accuracy. The Tool is so constructed that it may be attached to either Side of the Plane making it equally adaptable for Right or Left Hand Work. A Hole is Bored in each End of the Gauge so that a Wood Face of any desired Size may be attached, thus providing a Bearing Surface Longer or Wider than the Face of the Gauge itself.

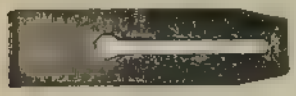
Each

No. 886—Made of Malleable Iron Nickel Plated; Length 11 in.; Plain Nickel Plated Gauge Plate; Machined Planer Surface; Rosewood Knob forms a convenient Grip and can be placed at either end of the Gauge; Weight each 1¼ lbs.; **$3.00**

One in a Box

PLANE IRONS

In Ordering Plane Irons Always Give the Make and Number of Plane for Which they are Wanted.



★*Diamond Edge*

For All-Iron and Wood Bottom Bench Panes

Highest Grade English Tool Steel, Especially Selected for *Diamond Edge* Planes; Oil Tempered, Ground and Hand Sharpened; Extra Heavy Bit Full Polished.

No. DES—SINGLE CUT IRONS

Cut, Inches....	1⅝	1⅝	1¾	2	2⅛	2¼	2⅜	2⅝
Wt. Doz., Lbs...	2¼	2½	2⅝	3¼	3½	3⅞	4¼	4½
Per Dozen.....	$3.90	4.60	6.20	6.50	7.00	7.80	8.00	8.50

Half Dozen in a Box.

★*Diamond Edge*

For All-Iron and Wood and Bench Bottom Planes

Highest Grade English Tool Steel, Especially Selected for *Diamond Edge* Planes; Oil Tempered, Ground and Hand Sharpened; Extra Heavy Bit Full Polished.

No. DED—DOUBLE IRONS

Cut, Inches...	1⅝	1⅝	1¾	2	2⅛	2¼	2⅜	2⅝
Wt. Doz., Lbs..	3½	4	4½	5½	6	7	7¼	7½
Per Dozen.....$6.80		7.60	10.50	11.50	12.00	13.00	13.50	14.00

Half Dozen in a Box.

★*Diamond Edge*

For Wood Bench Planes

Highest Grade English Tool Steel, Especially Selected for *Diamond Edge* Planes; Oil Tempered, Ground and Hand Sharpened; Extra Bit Heavy Full Polished.

No. DESW—SINGLE CUT IRONS

Cut, Inches. ..	2	2⅛	2¼	2⅜	2½	2⅝
Weight Dozen, Lbs	6½	7½	8	8½	9½	10
Per Dozen.....	$7.00	7.30	8.50	9.50	10.00	11.50

Half Dozen in a Box.

★*Diamond Edge*

For Wood Bench Planes

Highest Grade English Tool Steel, Especialy Selected for *Diamond Edge* Planes; Oil Tempered, Ground and Hand Sharpened; Extra Heavy Bit Full Polished.

No. DEDW—DOUBLE IRONS

Cut, Inches.....	2	2⅛	2¼	2⅜	2½
Weight Dozen, Lbs.....	9½	10½	11	11½	13½
Per Dozen.....	$15 00	15 50	16 00	17.00	19 00

Half Dozen in a Box.

★BRIDGE

For Wood Bench Planes

High Grade Crucible Steel Bit Soft Steel Body; Oil Tempered; Ground and Hand Sharpened; Heavy Bit Full Polished.

No. BSW—SINGLE CUT IRONS

Cut, Inches.....	2	2⅛	2¼	2⅜	2½	2⅝
Weight Dozen, Lbs	6½	7½	8	8½	9½	10
Per Dozen.....	$6.50	7.00	8.00	8 80	10.00	10.50

Half Dozen in a Wood Box

★BRIDGE

For Wood Bench Planes

High Grade Crucible Steel Bit, Soft Steel Body; Oil Tempered, Ground and Hand Sharpened; Heavy Bit Full Polished.

No. BDW—DOUBLE IRONS

Cut, Inches...	2	2⅛	2¼
Weight Dozen, Lbs.....	9½	10½	11
Per Dozen.....	$14 00	14.30	15.00

Half Dozen in a Wood Box

PLANE IRONS

STANLEY

For All-Iron and Wood Bottom Bench Planes

Extra Quality Cast Steel, Perfectly Tempered, Ground and Polished.

No. BS—SINGLE CUT IRONS

Cut, Inches. ..	1¼	1⅜	1½	2	2⅛	2¼	2⅜	2⅝
Weight Dozen, Lbs.	2¼	2½	2⅝	3¼	3½	3⅞	4¼	4½
Per Dozen.....	$4.70	5.80	6.40	6.50	7.50	7.70	8.00	8.50

Half Dozen in a Box.

STANLEY

For All-Iron and Wood Bottom Bench Planes

Extra Quality Cast Steel, Perfectly Tempered, Ground and Polished.

No. BD—DOUBLE IRONS

Cut, Inches. ..	1⅝	1⅞	2	2⅛	2¼	2⅜	2⅝
Wt. Doz., Lbs...	4	4½	5½	6	7	7¼	7½
Per Dozen.....	$9.50	10.00	11.30	12.00	12.70	13.00	13 70

FOR BLOCK PLANES

Per Dozen

No. BP—For Planes Nos. 9½ 9¾, 15, 15½, 16, 17, 18, 19, 131 and 220 Planes..... $4 50

No. BX—For Plane No. 120 ..... 4 50

Half Dozen in a Box.

PLANE HANDLES

FOR ★*Diamond Edge* IRON PLANES

Black Composition Rubber

Per Dozen

No. DE3—For No. DE3 Plane.. $5 50

No. DE4—For No. DE4 Plane..... 5 50

No. DE4½—For Nos. DE4½, DE5, DE6, DE7 and DE8 Planes 5 50

Weight per Dozen 2½ lbs

One Dozen in a Box.

FOR ALL-IRON PLANES

Rosewood Finished Hardwood

Per Dozen

No. 4—For Bailey No. 4 and *Diamond Edge* No. DE4 Smooth Planes..... $5 50

No. 5—For *Diamond Edge*, Bailey and Ohio Jack, Fore and Jointer and for Ohio Smooth Plane No. 4. ..... 5 50

Weight per Dozen 2 lbs.

One Dozen in a Box.

FOR WOOD BOTTOM IRON PLANES

Plain Finished Beechwood

Per Dozen

No. 28—For Jack, Fore and Jointer Planes; All Sizes.. $2.80

Weight per Dozen 2 lbs.

One Dozen in a Box.

FOR WOOD PLANES

Per Dozen

No. 10—For Jack Planes; Plain Finished Beechwood; Weight Dozen 3 lbs..... $1.30

One Dozen in a Box.

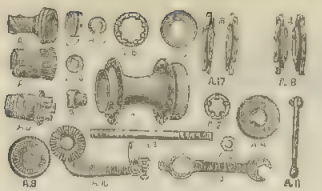
FOR WOOD PLANES

Per Dozen

No. 12—For Fore and Jointer Planes; Plain Finished Beechwood; Weight Dozen 4½ lbs.. $2 00

One Dozen in a Box.

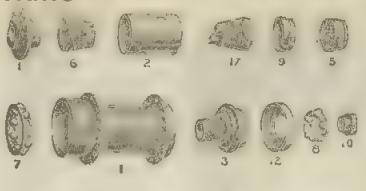
COASTER BRAKE PARTS



NEW DEPARTURE

	Each
No. A1 —Hub Shell; Weight 10 ozs.	$2 10
No. A2 —Driver; Weight 4 ozs.	1 10
No. A3 —Clutch Sleeve; Weight 2 ozs.	.60
No. A4 —Axle; Weight 3 ozs.	.30
No. A5 —Sprocket Set Nuts; Weight 1 oz	.30
No. A6 —Brake Clutch; Weight 2 ozs.	.70
No. A7 —Axle Adjusting Cone; Weight 2 ozs.	.40
No. A8 —Brake Complete; Weight 8 ozs.	1 10
No. A9 —Brake Disc; Weight 4 ozs.	.60
No. A10—Brake Arm; Weight 4 ozs.	.45
No. A11—Clip with Bolt and Nut; Weight 1 oz	.15
No. A12—Transfer Sleeve; Weight ½ oz.	.15
No. A13—Axle Nut; Weight ½ oz.	.10
No. A14 —Axle Washer Plain (2); Weight ½ oz	.10
No. A15—Socket Washer; Weight ½ oz.	.10
No. A16—Large Ball Retainer; Weight 1 oz.	.30
No. A17—Sprocket, 1-16 inch Offset; Weight 4 ozs	.30
No. A18 —Sprocket, 3-16 inch Offset; Weight 4 oz	.30
No. A19—Wrench, Weight 2 ozs	.40
No. A20—Small Ball Retainer; Weight 1 oz	25

In Ordering, Specify whether Parts are Wanted for 'A' Narrow or Regular; also the Year the Brake was Bought.

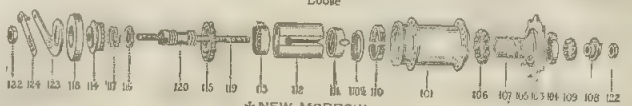


LESTER—MODEL 1

	Each
No. 1L—Hub Shell	$2.10
No. 2L—Clutch Sleeve	.80
No. 3L—Driver	1.10
No. 4L—Axle	.30
No. 5L—Driving Clutch	.70
No. 6L—Left Brake Clutch	.90
No. 7L—Large Ball Retainer	.30
No. 8L—Small Ball Retainer	.20
No. 9L—Retarder	.20
No. 10L—Adjusting Cone	.40
No. 11L—Stationary Cone	.70
No. 12L—Sprocket Locknut	.30
No. 13L—Axle Nut	.10
No. 14L—Axle Nut Washer	.10
No. 15L—Brake Arm	.40
No. 16L—Strap, Bolt and Nut	.20
No. 17L—Right Brake Clutch	.90
No. 18L—Sprockets	.30

Note—In Ordering Hub Shell state Number of Sprocket Holes Wanted.

Loose

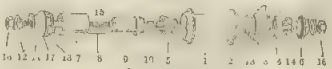


✣ NEW MORROW

	Each
No. 101 —Hub Case; Weight 10 ozs.	$2.10
No. 102 —Oil Hole Cover and Screw; Weight ¼ oz	.10
No. 103 —Sprocket; Weight 4 ozs	.60
No. 104 —Sprocket Lock Nut; Weight 1 oz	.30
No. 105 —Sprocket Dust Cap; Weight ½ oz.	.15
No. 106 —Ball Retainer, Sprocket Side; Weight 1 oz	.25
No. 107 —Driving Screw; Weight 4 ozs	1 10
No. 108 —Axle Cone, Adjusting; Weight 2 ozs	.40
No. 109 —Ball Retainer for Axle Cone; Weight 1 oz	.30
	Pair
No. 110 —Clutch Rings in Pairs; Weight 1 oz	$0 70
	Each
No. 110½ —Clutch Retainer Ring; Weight ½ oz.	$0 15
No. 111 —Nut and Sleeve Expander; Weight 2 ozs.	.70

	Each
No. 112 —Brake Sleeve; Weight 8 oz	$1 10
No. 113 —Sleeve Expander, with Bolt; Weight 2 ozs.	60
No. 114—Cone, Arm Side; Weight 2 ozs.	70
No. 115—Ball Retainer, Arm Side; Weight 1 oz.	.30
No. 116 Retarder Washers; Weight ½ oz.	.15
No. 117 —Retarder Spring; Weight ½ oz.	20
No. 118—Dust Cap, Arm Side; Weight 1 oz	.25
No. 119—Axle; Weight 3 ozs.	.30
No. 120—Axle Bushing; Weight 2 ozs	.30
No. 122—Axle Nut; Weight ½ oz.	.10
No. 123—Arm; Weight 3 ozs.	.25
No. 124—Arm Clip; Complete; Weight 1 oz.	.15
No. 126—Wrench; Weight 2 ozs.	.15
No. 127—Washer for Lost Motion; Weight ¼ oz	.15

Loose



✣ ECLIPSE

	Each
No. E1—Hub Shell; Weight 7 ozs.	$2.10
No. E2—Sprocket Screw Nut; Weight 2 ozs	1 30
No. E3—Sprocket (3-16-9); Weight 4 ozs	60
No. E4—Sprocket Lock Nut; Weight 1 oz	.30
No. E5—Driving Screw; Weight 2 ozs.	1 10
No. E6—Adjusting Cone; Weight 2 ozs.	.40
No. E7—Brake Sleeve; Weight 3 ozs.	1.10
No. E8—Brake Lever; Weight 1 oz.	.40

	Each
No. E9 —Brake Sleeve Support; Weight 3 ozs.	$1 30
No. E10—Brake Retarder; Weight ¼ oz	15
No. E11—Anchor Cone; Weight 5 ozs.	1 30
No. E12—Lock Washer; Weight 1 oz.	.60
No. E13—Ball Retainer Ring; Including Balls; Weight 1 oz.	30
No. E14—Small Retainer; Including Balls; Weight ¼ oz.	.25
No. E15—Axle; Weight 3 ozs.	.30
No. E16—Axle Nuts (2); Weight ½ oz.	.10
No. E17—Felt Dust Washer; Weight ¼ oz	.10

Loose

Items Marked ✣ Not Carried In Stock; Can Only Be Furnished by Shipping Direct from Factory, Elmira, N. Y.

COASTER BRAKES

CORBIN DUPLEX

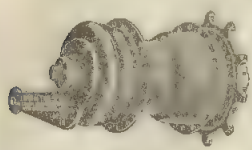
Very Simple, also very Effective in Operation; made from High Grade Steel in the most [illegible] It has proven Sure, Easy and Dependable; Nickel Plated and Polished.

Each

No. 8D—Sprockets 7, 8, 9 and 10 Tooth; for ⅛ and 3-16 inch Chain, 1⅜ and 1⅝ inch Chain Line; 28, 32 and 36 Holes; Weight Each 3 lbs. $6.50

One in a Box

CORBIN TWO SPEED



This Coaster Brake differs from all Others on Account of its Mechanical Construction, which allows the Rider to attain a High Speed with the Same Number of Revolutions of the Pedal as are Necessary [illegible] Speed; Strictly High Grade Material and Workmanship; Nickeled and Polished.

Each

No. 10—Sprockets 8, 9 and 10 Tooth; for ⅛ and 3-16 inch Chain; 1⅜ and 1⅝ inch Chain Line; 36 Holes; Weight each 4 lbs. $14 00

One in a Box

THE MUSSELMAN AUTOMATIC

Each

No. 6M—No Springs, Levers, Rods or Complicated Parts; No Side Arm or Locker Washer; No Slipping, Clicking or Rattling; Free in Coasting Positive and Sensitive in Driving and Braking; made to Fit any Bicycle; In ordering, give size of Sprocket (Number of Teeth) wanted, also Size of Chain, whether ⅛ or 3-16 inch; Weight 25 ozs. $6 50

One in a Box

ATHERTON

A Simple, Economical and Durable Brake.

All Mechanical Parts are of Simple Construction, making it a very Strong Brake, Able to Stand Abuse or Neglect; Made of Steel, Nickel Plated and Highly Polished.

Each

No. AC—Sprockets; 7, 8, 9, 10 Tooth; for 3/16 inch Chain; 1⅜ 1⅝ inch Chain Line; 36 Holes; Weight Each 2½ lbs. $6 50

One in a Box

NEW MORROW

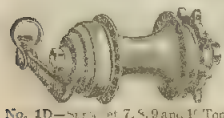
In Material and Construction the Morrow has a Ten Year Record which has Proven it Safe, Easy and Frictionless; Nickel Plated and Highly Polished.

Each

No. 4M—Sprockets 8 and 9 Tooth; for 3-16 inch Chain; 1⅜ and 1⅝ inch Chain Line; 36 Holes; Weight Each 2⅝ lbs. $6.50

One in a Box

NEW DEPARTURE



High Grade Steel; Nickel Plated and Polished; Light, Graceful and Perfect in Operation; Guaranteed by the Manufacturers.

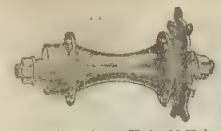
Each

No. 1D—Sprockets 7, 8, 9 and 10 Tooth; for ⅛ and 3-16 inch Chain; 1⅜ and 1⅝ inch Chain Line; 28, 32 and 36 Holes; Weight Each 2½ lbs. $6.50

One in a Box

BICYCLE HUBS

*RUGBY



Strictly High Grade; Solid Barrel Construction; Sprockets 7, 8, 9 and 10 Tooth; for 3-16 inch Chain, Nickel Plated and Polished.

Each

No. 3F28—Front Hub; 28 Holes; Weight Each 7 ozs. $1.30

No. 3F32—Front Hub; 32 Holes; Weight Each 7 ozs. 1 30

No. 3F36—Front Hub; 36 Holes; Weight Each 7 ozs. 1.30

No. 3R—Rear Hub; 36 Holes; Weight Each 16 ozs. 2.50

Loose

CORBIN

Barrel, Cups and Runs are in One Piece; made for 1 inch and 1⅛ inch Chain Line; Sprockets 7, 8, 9, 10 and 12 Tooth; for ⅛ or 3-16 inch Chain, Nickel Plated and Highly Polished.

Each

No. 9F—Front Hub; 32 Holes; Weight Each 8 ozs. $1.50

*MIZZOO

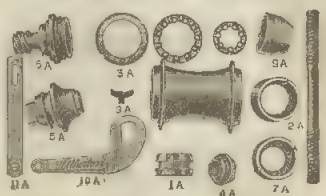
This is a Splendid Hub at a Low Price; Ball Bearing Sprockets; Nickel Plated and Highly Polished; 7, 8, and 9 Tooth Sprockets for 3-16 inch Chain.

Each

No. MF32—Front Hub; 32 Holes; Weight 6 ozs. $1.40

Loose

EXTRA PARTS FOR ATHERTON COASTER BRAKES



		Each
†No. 1A	—Sliding Nut	$0.45
†No. 2A	—Atherton Sleeve, Bronze	.45
†No. 3A	—Sprocket—Locknut	.80
†No. 4A	—Small Cone	.40
†No. 5A	—Large Cone	.70
†No. 6A	—Driving Sleeve	1.10
†No. 7A	—Driving Cup	.60
†No. 8A	—Springs	.10
†No. 9A	Brake Shoe	.50
†No. 10A	—Side Arm	.45
†No. 11A	Clip, with Bolt and Nut	.15
†No. 12A	—Hub Barrel	2.10
†No. 13A	—Sprocket	.50
†No. 14A	Large Retainer, with Balls	.60
†No. 15A	Small Retainer, with Balls	.25
†No. 16A	—Axle	.30
†No. 17A	—Axle Nuts	.10
†No. 18A	Axle Washer	.10
†No. 19A	—Bronze Sleeve	1.10

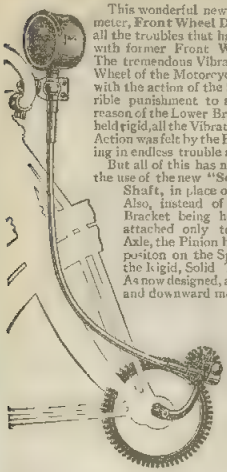
Items Marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct From Factory Buffalo, N. Y.

MOTORCYCLE SPEEDOMETERS

LID TUBE FRONT WHEEL DRIVE, MODEL 101

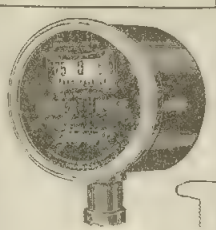
STEWART

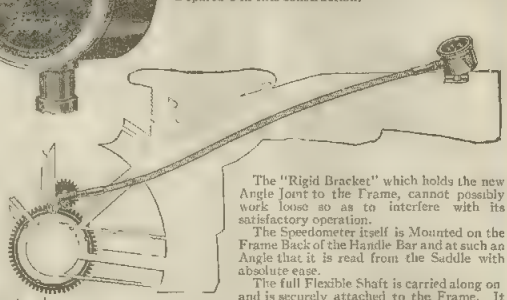
When ordering Motorcycle Speedometers; give make, model and year of motorcycle, also diameter of tire.



This wonderful new Motorcycle Speedometer, **Front Wheel Drive,** does away with all the troubles that have been experienced with former Front Wheel Drive Models. The tremendous Vibration that the Front Wheel of the Motorcycle receives, together with the action of the Spring Fork was terrible punishment to a Flexible Shaft. By reason of the Lower Bracket formerly being held rigid, all the Vibration Shock and Spring Action was felt by the Flexible Shaft, resulting in endless trouble and breakage.

But all of this has now been obviated by the use of the new **"Solid Tube" Driving Shaft,** in place of the Flexible Shaft. Also, instead of the Lower Bearing Bracket being held Rigid, it is now attached only to the Front Wheel Axle, the Pinion being suspended in its position on the Sprocket by means of the Rigid, Solid Tube Driving Shaft. As now designed, all of the "Whipping" and downward movement on the Fork is taken up by the Bracket working free on the Axle. Any downward movement of the Fork causes the Solid Tube to push the Pinion down slightly on the Sprocket. This virtually makes a free connection and all of the Vibration and Springiness that any Motorcycle will ever experience have absolutely no effect upon this new style of **"Solid Tube" Driving Shaft Equipment.**





Each

Model 101—Front Wheel Drive with 2½ inch Dial. **$14 00**
One in a Box; Weight about 12 lbs

REAR WHEEL DRIVE, MODE L101A

The most ruggedly built and equipped Motorcycle Speedometer made. Furthermore, it is more firmly attached than any other Motorcycle Speedometer in existence. It is absolutely unaffected by Vibration or Road Shocks.

Fastened to the Rear Wheel Hub is a big, Solid Case Sprocket, as strong as any part of the Machine. The Pinion being of Fiber, eliminates all Gear Grinding, as well as all the other noises which makes the ordinary Speedometer Drive so objectionable. The new Angle Joint, between the Pinion and the Flexible Shaft is a Stewart special design and is an entirely new Departure in this construction.

The "Rigid Bracket" which holds the new Angle Joint to the Frame, cannot possibly work loose so as to interfere with its satisfactory operation.

The Speedometer itself is Mounted on the Frame Back of the Handle Bar and at such an Angle that it is read from the Saddle with absolute ease.

The full Flexible Shaft is carried along on and is securely attached to the Frame. It cannot work loose and get in the Riders' way. It is never subjected to any Whipping or Twisting Strains. It is always in the best possible position for correct operation.

The illustration shows one method of attaching it to the Frame. Because of the difference in the Designs of Motorcycles, a special Bracket for each make of Motorcycle is made.

Each

Model 101A—Rear Wheel Drive with 2½ inch Dial **$14 00**
One in a Box, Weight 12 lbs.

BICYCLE CYCLOMETERS

VEEDER

Veeder Cyclometers are as Accurately Made as Watches, but Contain no Springs to Cause Trouble. They are Dust and Water Proof and Cannot Skip; Neither Can they Register too much. The Crystals are Clear and Thick; When in Use the Record can be Read Easily from the Saddle; Every One is Thoroughly Tested at the Factory.

REGULAR

Each

No. VR Registers Mileage up to 10,000, then Automatically Commences Again; Full Nickel Plated; Can be Attached to Any Bicycle; Weight 2 ozs. **$1.30**

TRIP

Each

No. VT—The Large Dial Registers the Total Mileage up to 10,000; the Small Dial Registers the Trip Mileage up to 1,000 after Registering a Total of 10,000 Miles it Automatically Commences Again; Full Nickel Plated; can be Attached to Any Bicycle, Weight 4 ozs. **$3 50**

One in a Box, Twelve in a Carton

The Figures in Black Indicate Miles; the Figures in Red Indicate Tenths of Miles.

HAND TALLY COUNTERS

VEEDER

Can be Quickly Set Back to Zero by One Turn of the Knob; The Case is Small in Size and has Rounded Corners so as Not to Irritate the Hand of the User, Nor to Wear the Pocket When Carrying it. Can be held in either Hand when being Used.

Each

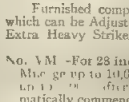
✣**No. V**—1x2 in., Figures ⅛ inch high, Counts up to four figures; Weight about 2 ozs. **$11.50**

One in a Box

CYCLOMETER SPOKE PINS

Each

No. VCS—Spoke Pins or Strikers, Milled Steel, Bright; Complete with Set Screw and Brass Spoke Roller . **$0.36**
Loose



MOTORCYCLE CYCLOMETERS

VEEDER

Veeder Cyclometers are as Accurately made as Watches, but contain no Springs to cause trouble; They are Dust and Water Proof and cannot Skip, Neither can they register too much. The Crystals are Clear and Thick; When in use the Record can be read easily from the Saddle. Every one is thoroughly Tested at the Factory.

The Figures in White Indicate Miles; the Figures in Red Indicate Tenths of Miles.

Made Larger and Stronger than the Regular Bicycle Cyclometer, to withstand the Harder Usage to which a Cyclometer is subjected to on the Motorcycle.

Furnished complete with Adjustable Steel Bracket, Nickel Plated which can be Adjusted to fit any American or Foreign Motorcycle; also, Extra Heavy Striker for Motorcycles.

Each

No. VM -For 28 inch Wheels; the Large Dial Registers the Total Mileage up to 10,000, the Small Dial Registers the Trip Mileage up to 1,000 after Registering a Total of 10,000 Miles it Automatically commences again; Full Nickel Plated, can be Attached to any Motorcycle; Weight 4 ounces. **$4 50**

One in a Box, Twelve in a Carton.

✣**NOTE—Special Model for Harley Davidson Machines, also for 24 and 26 inch Wheels can be furnished by Shipping Direct from Factory, Hartford, Conn., at Same Price as the Regular No. VM Motorcycle Cyclometer.**

CYCLOMETER BRACKETS

Each

No. VCB—Stamped Steel, Bright, Complete with Bolt and Nut. **$0.36**
Loose

Items Marked ✣ Not Carried in Stock; Can only be Furnished by Shipping Direct from Factory, New Haven, Conn.

COASTER BRAKE PARTS

CORBIN DUPLEX

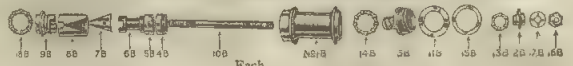
	For Models 5, 6, 7 and 8	Each
No. 2	Small Ball Retainer for Adjusting Cone, with Balls; Weight 1 oz.	$0.25
✣ No. 3	Transfer Sleeve, Model 5; Weight 1 oz.	.15
No. 5	Sprocket Lock Nut, Models 6 and 7; Weight 2 ozs.	.30
No. 9	Right Side Adjusting Cone, Model 6 and 7, Wt 1 oz	.40
		Per Pair
No. 10	Axle Washer, Models 6 and 7, Pairs; Weight 1 oz.	$0.10
		Each
No. 11	Axle Nut, Models 6 and 7; Weight ¼ oz.	$0.10
No. 14	Large Ball Retainer, with Balls, Models 6 and 7; Weight 2 ozs	.30
No. 15	Sprockets, 7, 8, 9 and 10 Teeth; Weight 4 ozs.	.30
✣ No. 15	Sprockets, 11 and 12 Teeth; Weight 4 ozs.	.30
No. 18	Bushings, Models 6 and 7; Weight ½ oz	.30
No. 19	Axle, Models 6 and 7; Weight 3 ozs.	.30
No. 20	Band, Connecting Brake Arm to Frame, including Bolt, Models 6 and 7; Weight 1 oz.	.15
		Per Pair
No. 22	Brake Shoes in Pairs; Weight 4 ozs.	$0.45
		Per Set
No. 23	Brake Shoe Levers in Sets; Weight 2 ozs.	$0.15
No. 24	Brake Shoe Springs, in Sets (4), Weight 1 oz.	15
		Each
No. 28	Braking Clutch, Models 6 and 7, Weight 2 ozs.	$0.60
No. 31	Wrench, Models 6 and 7, Weight 3 ozs.	.40
No. 45	Driver for Models 6 and 7; Weight 6 ozs.	1.10
No. 46	Driving Clutch, Models 6 and 7; Weight 3 ozs.	.70
No. 47	Transfer Sleeve, Models 6 and 7; Weight ½ oz.	.15
No. 48	Hub Shell, Models 6 and 7; Weight 12 ozs.	2.10
No. 107	Arm, Model 7, Weight 12 ozs	.45
No. 108	Dust Cap, Model 7; Weight 3 ozs.	.25
No. 110	Anchor Plate, Model 7; Weight ½ oz.	.60

✣CORBIN TWO SPEED

	For Model 10	Per Pair
No. 10	Axle Washer, in Pairs, Weight 1 oz.	$0.10
No. 11	Axle Nut; Weight ¼ oz.	15
		Each
No. 15	Sprockets; Weight 4 ozs.	$0.70
No. 18	Bushing, Weight ½ oz	30
No. 20	Brake Arm Pawl; Weight 1 oz.	15
		Per Pair
No. 22	Brake Shoes, per Pair; Weight 4 ozs.	$0.45
		Per Set
No. 23	Brake Shoe Levers, per Set; Weight 2 ozs.	$0.15
No. 24	Brake Shoe Springs, per Set (4); Weight 1 oz	15
		Each
No. 80	Hub Shell; Weight 15 ozs.	$2.50
No. 81	High Speed Driver; Weight 1 oz.	1.20
No. 82	Low Speed Driver; Weight 1 oz	2.50
No. 83	Sprocket Piece; Weight 4 ozs	2.50
No. 84	High Speed Clutch; Weight 2 ozs.	1.20
No. 85	Low Speed Clutch; Weight 3 ozs.	1.10
No. 86	Brake Clutch; Weight 5 ozs.	1.25
No. 87	Adjusting Cone and Sun Gear; Weight 2 ozs	1.90
No. 88	Planet Gears; Weight 2 ozs.	.30
No. 90	Controller, Weight 4 ozs	2.80
No. 91	Low Speed Clutch Tension Spring; Weight ½ oz	.15
No. 92	High Speed Clutch Transfer; Weight 1 oz	.40
No. 93	Controller Guide Stud Slotted; Weight ½ oz.	.15
No. 94	Large Ball Retainer, with Balls; Weight 1½ ozs.	.50
No. 95	Small Ball Retainer, Weight 1 oz	.25
No. 96	Axle; Weight 3 ozs.	.30
No. 97	Sprocket Lock Nut; Weight 2 ozs	.50
No. 102	Controller Guide Stud Retaining Spring, Weight 1 oz	.10
No. 103	Controller Guide Stud, Not Slotted; Weight ½ ozs.	.15
No. 104	Cover; Weight 3 ozs.	1.30
No. 107	Arm; Weight 2 ozs	.60
No. 108	Dust Cap, Weight 1 oz.	.30
No. 109	Inside Washer; Weight 1 oz.	.15
No. 110	Anchor Plate; Weight 1 ozs.	.60

Loose

✣EXTRA PARTS FOR MUSSELMANN COASTER BRAKES



		Each
✣ No. 1B	Hub Shell, Weight 10 ozs.	$2.50
✣ No. 2B	Adjusting Cone, Weight 2 ozs.	.50
✣ No. 3B	Driving Worm; Weight 2 ozs.	1.15
✣ No. 4B	Driving Clutch; Weight 2 ozs.	.80
✣ No. 5B	Clutch Drag; Weight 1 oz.	.20
✣ No. 6B	Brake Spool, Weight 8 ozs	.90
✣ No. 7B	Brake Wedge; Weight 2 ozs.	.50
✣ No. 8B	Brake Shoe; Weight 3 ozs	1.15
✣ No. 9B	Stationary Cone, Weight 2 ozs	.80
✣ No. 10B	Axle, Weight 6 ozs	.30
✣ No. 11B	Sprocket Lock Nut, Weight 1 oz.	.30
✣ No. 12B	Sprocket 8 Tooth.	$0.50
	" " 9 "	.50
	" " 10 "	.60
	" " 11 "	.70
	" " 12 "	.70
✣ No. 13B	Small Ball Retainers; Weight 1 oz.	.25
✣ No. 14B	Large Ball Retainers; Weight 1 oz.	.30
✣ No. 15B	Chain Line Ring; Weight 1 oz.	.25
✣ No. 16B	Axle Nut, Weight ¼ oz.	.20
✣ No. 17B	Axle Washer, Weight ½ oz.	.10
✣ No. 18B	Split Ball Retainer, Weight 1 oz.	.30

Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Corbin Parts from New Britain, Conn., Musselman Parts from Middletown, Ohio

POCKET KNIVES

W. H. MORLEY & SONS

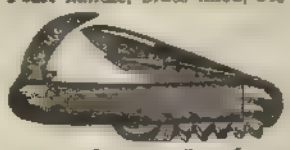
English Crucible Steel Blades, Highly Tempered, Sharpened Ready for Use

Combination Knife
Full polished, full milled, German silver tips and shield.

Per Dozen
No. G7743P—6 blades, **Pearl** handle, brass lined, 2⅞ in. $54.00

Full polished, German silver bolsters.

Per Dozen
No. G7662—4 blades, **Pearl** handle, brass lined, 3¼ in $30.00

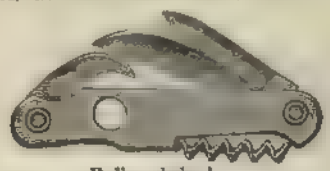


Full polished, German silver bolsters.

Per Dozen
No. G7677P —4 blades, **Pearl** handle, brass lined, 3¼ in. . . . . [illegible]
No. G7668ST—4 blades, **Stag** handle, brass lined, 3¾ in. 18.00
No. G3991 —4 blades, **Genuine Stag** handle, brass lined, 3½ in 27.00

Full polished, fancy German silver handle.

Per Dozen
No. G6980—4 blades, **German Silver** handle, 3¼ in. $18.00



Full polished.

Per Dozen
No. G7641—4 blades, **German Silver** handle, brass lined, 3¼ in. . $16.00
No. G9082—4 blades, **Steel Nickel Plated** handle, steel lined, 3½ in. 8.00

Full polished, German silver bolsters and shield.

Per Dozen
No. G6638P—4 blades, **Pearl** handle, brass lined, 3⅛ in. $16.00

Full polished, German silver bolsters and shield

Per Dozen
No. G6585P—3 blades, **Pearl** handle, brass lined, 3¼ in $18.00
No. G6508P—3 blades, **Pearl** handle, brass lined, 3 in. $16.00

Full polished, pearl back.

Per Dozen
No. G3995P—2 blades, **Pearl** handle, German silver lined, 3½ in $36.00

Full polished, German silver lining, tips and shield.

Per Dozen
No. G7399P—3 blades, **Pearl** handle, 3 in. $24.00

Full polished, German silver bolsters.

Per Dozen
No. G7456P -3 blades, **Pearl** handle, brass lined, 2¾ in. $24.00

Scissors Knife
Full polished, German silver bolster and shield.

Per Dozen
No. G7450P—3 blades, **Pearl** handle, brass lined, 3 in. $21.00

Half polished, German silver bolsters and shield

Per Dozen
No. G7383P—3 blades, **Pearl** handle, brass lined, 3¼ in. $18.00
No. G7679P—3 blades, **Pearl** handle, brass lined, 3⅝ in. $18.00

Half polished, German silver tips and shield.

Per Dozen
No. G7683P -3 blades, **Pearl** handle, brass lined, 3 in. $17.50

Half polished, German silver tips and shield.

Per Dozen
No G3382P—3 blades, **Pearl** handle, brass lined, 3⅛ in. $16.00

Half polished, German silver bolsters.

Per Dozen
No. G7915P—4 blades **Pearl** handle, brass lined, 3¼ in . . $17.50
No. G5580P—3 blades, **Pearl** handle, brass lined, 1 large spear point, 1 file, 1 pen, 3¼ in 16.00

All Half Dozen in a Box

POCKET KNIVES

W. H. MORLEY & SONS

English Crucible Steel Blades, Highly Tempered, Sharpened Ready for Use

Per Dozen
No. G7917P—4 blades, **Pearl** handle, brass lined, 3 in.....$18.00
No. G5083P—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 3 in. 15.00
No. G5553P 3 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 1 file, 2¾ in..... 16.00
No. G4627P—4 blades, **Pearl** handle, brass lined, 1 large spear point, 2 pens, 1 file, 2¾ in..... 16.00

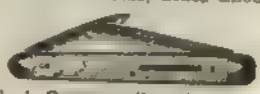
Half polished, German silver tips and shield
Per Dozen
No. G7975P—4 blades, **Pearl** handle, brass lined, 2⅞ in.....$17.50

Full polished, milled
Per Dozen
No. G5082P—2 blades, **Pearl** handle, brass lined, 2¾ in.....$21.00

Full polished blades
Per Dozen
No. G5060P—2 blades, **Pearl** handle, German silver lined, 3⅛ in.$21.00

Half polished, German silver shield
Per Dozen
No. G5034P—2 blades, **Pearl** handle, brass lined, 2⅞ in... . $15.00

Half polished blades
No. G5036P—2 blades, **Pearl** handle, brass lined, 3 in.....$15.00



Full polished, German silver bolsters and shield
Per Dozen
No. G5060P—2 blades, **Pearl** handle, brass lined, 3 in.....$ 8.00

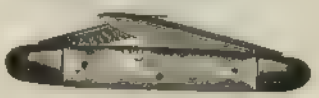
Full polished, German silver bolsters
Per Dozen
No. G6713P—2 blades, **Pearl** handle, brass lined, 2⅞ in.....$ 8.00

Full polished, German silver bolsters
Per Dozen
No. —G2090P—2 blades, **Pearl** handle, brass lined, 3 in.....$ 8.00

Full polished, German silver bolsters
Per Dozen
No. G6602P—4 blades, **Pearl** handle, brass lined, 3 in.....$12.00
No. G7587P—3 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 1 file, 3 in..... 12.00

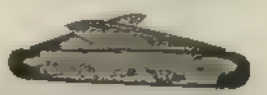
Full polished, German silver bolsters
Per Dozen
No G6743P—4 blades, **Pearl** handle, brass lined, 2¾ in.....$12.00

Half polished, German silver bolsters
Per Dozen
No. G7589P—3 blades, **Pearl** handle, brass lined, 2⅞ in.....$12.00



Full polished, German silver bolsters and shield
Per Dozen
No. G7157P—2 blades, **Pearl** handle, brass lined, 2¾ in... ....$ 8.00

Half polished, German silver bolsters and shield
Per Dozen
No. G5032P—2 blades, **Pearl** handle, brass lined, 3 in.....$ 8.00



Half polished, German silver bolsters
Per Dozen
No. G7167P—2 blades, **Pearl** handle, brass lined, 3 in. .....$ 8.00

Full polished, German silver bolsters
Per Dozen
No. G7186P—2 blades, **Pearl** handle, brass lined, 2⅞ in.....$ 8.00

Full polished, German silver bolsters
Per Dozen
No. G7183P—2 blades, **Pearl** handle, brass lined, 2⅞ in.....$ 8.00

Full polished, German silver bolsters and shield
Per Dozen
No. G6829P—2 blades, **Pearl** handle, brass lined, 3 in.....$ 8.00

All Half Dozen in a Box

POCKET KNIVES

W. H. MORLEY & SONS

English Crucible Steel Blades, Highly Tempered, Sharpened Ready for Use

[illegible] KNIVES

Shriner
Full polished, ring opener, emblem inlaid with silver, fez red enameled
Per Dozen
No. G5006—2 blades, **Gun Metal** handle, 3⅝ in.....$18 00

Woodman of World
Full polished, ring opener, emblem inlaid with gold and silver
Per Dozen
No. G5003—2 blades, **Gun Metal** handle, 3⅝ in.....$18 00

[illegible]
Full polished, emblem inlaid with gold and silver
Per Dozen
No. G5006—2 blades, **Gun Metal** handle, 3⅝ in.....$18 00

Odd Fellows
Full polished, emblem inlaid with gold and silver
Per Dozen
No. G7276—2 blades, **Gun Metal** handle, 3 in.....$18 00

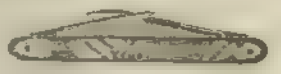
Masonic 32
Full polished, emblem inlaid with gold and silver
Per Dozen
No. G7277—2 blades, **Gun Metal** handle, 3 in.....$18 00

Elks
Full polished, emblem inlaid with gold and silver
Per Dozen
No. G7274—2 blades, **Gun Metal** handle, 3 in.....$18 00

Full polished blades, plain handle
Per Dozen
No. G5068GM—2 blades, **Gun Metal** handle, 3 in.....$ 8.00

Full polished blades
Per Dozen
No. G6412—2 blades, **Gun Metal** handle, 3 in.....$ 8.00

All Half Dozen in a Box



Full polished blades
Per Dozen
No. G7033P—2 blades, **Pearl** handle, brass lined, 2½ in.....$ 8.00

Full polished, German silver bolsters
Per Dozen
No. G7032P 2 blades, **Pearl** handle, brass lined, 2½ in.....$ 8.00

Full polished, German silver bolsters
Per Dozen
No. G7037P 2 blades, **Pearl** handle, brass lined, 2½ in.....$ 8.00

Full polished blades
Per Dozen
No. G7036P—2 blades, **Pearl** handle, brass lined, 2½ in.....$ 8.00

Full polished, German silver tips and shield
Per Dozen
No. G7034P—2 blades, **Pearl** handle, German silver lined, 2⅝ in.$ 8.00

Full polished, German silver lined
Per Dozen
No. G6805P 2 blades, **Pearl** handle, 2⅝ in.. ....$ 8.00

Full polished, German silver bolsters and shield
Per Dozen
No. G6824P—2 blades, **Pearl** handle, brass lined, 2¾ in.... ...$ 8.00

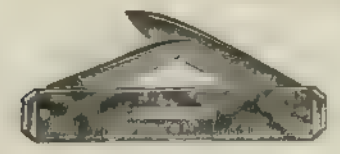
Full polished, German silver bolsters
Per Dozen
No. G7151P 2 blades, **Pearl** handle, brass lined, 3 in... .....$ 8.00

German
Full polished, German silver bolsters
Per Dozen
No. G3005P—2 blades, **Pearl** handle, brass lined, 3¼ in. .....$ 8.00

POCKET KNIVES

W. H. MORLEY & SONS

English Crucible Steel Blades, Highly Tempered, Sharpened Ready for Use

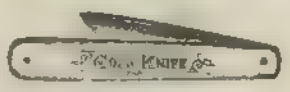


Full polished, milled — Per Dozen

No. G5003I—2 blades, **Silver Celluloid** handle, brass lined, 2⅞ in. $ 8.00

Full polished, celluloid back — Per Dozen

No. G5006I—2 blades, **Silver Celluloid** handle, brass lined, 3⅛ in. $ 8.00



Corn knife, full polished — Per Dozen

No. G146W—1 blade **White Celluloid** handle, brass lined, 3¼ in. 8.00

Half polished, German silver tips — Per Dozen

No. G1060P—4 blades, **Pearl** handle, brass lined, 2½ in. $ 8.00

Half polished, German silver bolsters — Per Dozen

No. G7341P—3 blades, **Pearl** handle, brass lined, 3¼ in. $ 8.00

Half polished, German silver bolsters — Per Dozen

No. G4249P—4 blades, **Pearl** handle, brass lined, 3⅛ in. $ 8.00

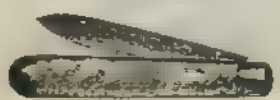
No. G4423P—4 blades, **Pearl** handle, brass lined, 3 in. 8.00

No. G6276½P—4 blades, **Pearl** handle, brass lined, 2¾ in. 8.00

German

Half polished, German silver bolster and cap — Per Dozen

No. G2060P—2 blades, **Pearl** handle, brass lined, 3 in. $ 8.00

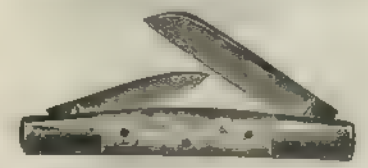


Half polished, German silver bolster and cap — Per Dozen

No. G2061P—2 blades, **Pearl** handle, brass lined, 3 in. $ 8.00

Full polished, steel bolsters — Per Dozen

No. G6807P—2 blades, **Pearl** handle, steel lined, 2½ in. $ 4.00

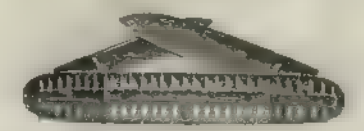


Full polished, steel bolsters — Per Dozen

No. G6810P—2 blades, **Pearl** handle, brass lined, 2⅝ in. $ 4.00

Full polished, steel bolsters — Per Dozen

No. G6808P—2 blades, **Pearl** handle, steel lined, 2¾ in. $ 4.00



Full polished, steel bolsters — Per Dozen

No. G2930—2 blades, **Pearl** handle, steel lined, 2⅝ in. $ 3.00

No. G2931—2 blades, **Plain Pearl** handle, steel lined, 2⅝ in. 8.00

Half polished, German silver bolsters and shield — Per Dozen

No. G3246I—3 blades, **Iris Celluloid** handles, 3⅛ in. $ 8.00

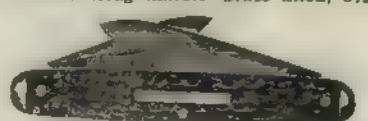
No. G3919½I—3 blades, **Iris Celluloid** handle, brass lined, 3½ in. 8.00

No. G03258G—3 blades **Gold Celluloid** handle brass lined, 3½ in. 8.00

Half polished, German silver tips and shield — Per Dozen

No. G3917½I—3 blades, **Iris Celluloid** handle, brass lined, 3⅝ in. $ 8.00

No. G4347—3 blades **Stag** handle brass lined, 3⅝ in. 8.00



Half polished, German silver tips and shield — Per Dozen

No. G5576ST—3 blades, **Stag** handle, brass lined, 3½ in. $ 8.00

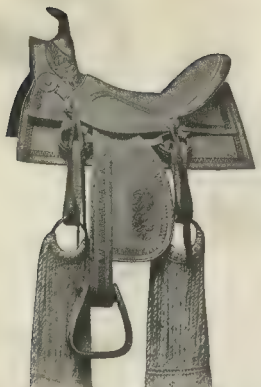
No. G4201½ST—4 blades, **Stag** handle, brass lined, 3½ in. 8.00

No. G04411G—4 blades, **Gold Celluloid** handle, brass lined, 3½ in. 8.00

Half polished, German silver bolsters and shield — Per Dozen

No. G3263G—3 blades, **Gold Celluloid** handle, brass lined, 3⅝ in. $ 8.00

All Half Dozen in a Box



Tree—La Junta, 14 in., steelfork.
Horn—Leather covered.
Front—Leather covered.
Seat—Full, seat and jockey in one piece.
Cantle—Roll.
Skirts—11½x22 ins., felt lined.
Cinchas—20 strand white cotton Texas.
Stirrup Leathers—1¾ inch
Stirrups—2 inch block.
Latigos, Short—1½ inch
Latigos, Long—1¼ inch.
Stamping—Raised stamped front and fenders, wheeled border.
Weight—About 16 pounds

Each
No. 0585.....$53.50

Tree—Dodo, 14½ inch only.
Horn—Leather covered.
Front—Swell, skirting bound
Seat—Full, seat with jockey sewed on.
Cantle—Skirting bound.
Skirts—11x23 inches, felt lined.
Cinchas—20 strand, white cotton Texas.
Stirrup Leathers—2 inch.
Stirrups—2 inch, wood block.
Latigos, Short—1½ inch.
Latigos, Long—1¼ inch.
Stamping—Basket stamped front, wheeled border.
Weight—About 25 pounds.

Each
No. 1385.....$68.50

Tree—Dodo, 15 inch, hide covered
Horn—Leather covered.
Front—11 inch, swell, white latigo bound.
Seat—Full, seat and jockey in one piece.
Cantle—White latigo bound.
Skirts—12x24 inches, felt lined.
Cinchas—20 strand white cotton Texas with tongues.
Stirrup Leathers—2¼ inch.
Stirrups—2 inch, block.
Latigos, Short—1½ inch.
Latigos Long—1⅜ inch.
Weight—About 22 lbs.

Each
No. 5175.....$90.30

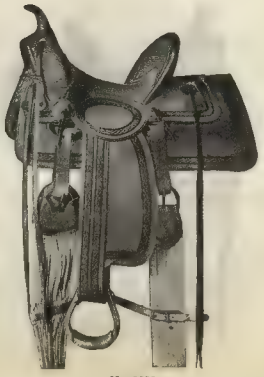
Tree—Redwing, 15 inch, swell front, hide covered.
Horn—Nickel.
Front—13 inch, swell, rawhide bound
Seat—Full, seat and jockey in one piece.
Cantle—White rawhide bound.
Cinchas—20 strand white cotton Texas, with tongues.
Skirts—12½x26 ins., wool lined.
Stirrup Leathers—3 inch.
Stirrups Bantz, XC.
Latigos, Short—1¾ inch.
Latigos, Long—1½ inch.
Weight—About 29 lbs.

Each
No. 0155.....$124.40

No 5105.

Tree—Meanea's North Star, 14 to 15½ inch, swell front, beef hide covered.
Horn—Nickel, milled edge.
Front—14 inch swell, skirting bound
Seat—Full, seat and jockey in one piece.
Cantle—Skirting bound, hand stitched.
Skirts—15x29 inches, wool lined.
Cinchas—Leathered and connected, wool lined chapes, 15 strand hard twisted cotton California front, best 4 inch cotton belting web flank.
Stirrup Leathers—3 inch.
Stirrups—2 inch, brass bound, Moran pattern, leather toe.
Latigos, Short—2 inch.
Latigos, Long—1¾ inch.
Rope Straps—⅝ inch.
Hand Stamped.
Silver Conchas.
Weight—About 44 pounds.

Each
No. 5105..... **$233.30**



No. 0625

Tree—Colorado Nelson, 14 to 15½ inch, swell front, beef hide covered.
Horn—Rawhide covered.
Front—14 inch swell, rawhide bound.
Seat—Full, seat and jockey in one piece.
Cantle—Rawhide bound, hand stitched.
Skirts—15x28 inches, wool lined
Cinchas—Leathered and connected, 5 inch hard twisted cotton Mexican front, best 4 inch belt web flank.
Stirrup Leathers—3 inch.
Stirrups—Ox bow, 1¼ inch, brass bound, leather toe.
Latigos, Short—1⅞ inch.
Latigos, Long—1⅝ inch.
Rope Straps—⅝ inch.
Hand Stamped.
Weight—About 35 pounds.

Each
No. 0625..... **$187.10**

Tree—Gopher, 15 inch, hide covered, swell fork.
Horn—Leather covered
Front—12 inch, swell skirting bound.
Seat—Full, seat and jockey in one piece.
Cantle—Skirting bound.
Skirts—12½x26 inches, wool lined.
Cinchas—20 strand, white cotton Texas.
Stirrup Leathers—3 inch.
Stirrups—Ox bow, 1¾ inch, brass bound.
Latigos, Short—1¾ inch.
Latigos, Long—1½ inch.
Hand Basket Stamped Front, Wheeled Seat and Border.
Weight—About 26 pounds.

Each
No. 5165 . . . . . **$110.40**

Tree—North Star, 14 to 15½ inch, swell front, beef hide covered
Horn—Leather covered.
Front—15 inch swell, skirting bound.
Seat—Full, seat and jockey in one piece.
Cantle—Skirting bound.
Skirts—15x28 inch, wool lined.
Cinchas—Leathered and connected, 15 strand white angora California front, 4 inch back band web flank.
Stirrup Leathers—3 inch.
Stirrups—Ox bow, 1½ inch, brass bound, leather toe.
Latigos, Short—2 inch.
Latigos, Long—1¾ inch.
Rope Straps—⅝ inch.
Hand Stamped.
Weight—About 38 pounds.

Each
No. 0235 . . . . . **$162.00**

Tree—Meanea's Freemont, 14 to 15½ inch, beef hide covered.
Horn—Leather covered.
Front—Skirting bound.
Seat—Full, seat and jockey in one piece.
Cantle—Skirting bound, hand stitched.
Skirts—15x28 inch, wool lined.
Cinchas—Leathered and connected, 5 inch hard twisted cotton Mexican front, best 4 inch belting web flank.
Stirrup Leathers—3 inch.
Stirrups—Ox bow, 1½ inch, brass bound, leather toe.
Latigos, Short—1⅞ inch.
Latigos, Long—1¾ inch.
Rope Straps—⅝ inch.
Hand Stamped.
Weight—About 40 pounds.

Each
No. 6435 . . . . . **$186.00**

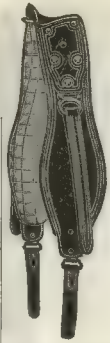
Iron jockey tree, double and stitched harness leather skirts, kersey bottom pad, ring bearer, double and stitched swing bearers, swing belly band billet.

Untrimmed.

Size, inches	4½	5
No.	8204½	8205
Each	$12.10	13.80

Brass trimmed.

No.	8204½B	8205B
Size, inches	4½	5
Each	$14.10	15.40



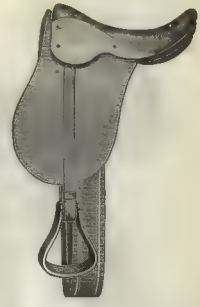
Patent leather jockey, bevel edge, harness leather oval raised skirts, bevel edge, full kersey pad, brass bearer loop, double and stitched swing bearers, swing belly band billets.

Untrimmed.

Size, inches	4½	5
No.	8274½	8275
Each	$16.50	20.20

Brass trimmed.

Size, inches	4½	5
No.	8274½B	8275B
Each	$19.70	22.30



Each

No. 0657—Somerset tree; full padded; cotton girth; wood stirrups **$26.40**

Iron jockey tree, harness leather oval raised skirts, full kersey pad, ring bearer loop, double and stitched swing bearer, swing belly band billets.

Untrimmed.

Size, ins	4½	5
No.	8234½	8235
Each	$9.40	10.90

Brass trimmed.

Size, ins	4½	5
No.	8234½B	8235B
Each	$11.20	12.80

RIDING SADDLES.

BOYS'.

Each

No. 0127—Morgan tree; full seat; large fenders; wood stirrups; web cinchas; embossed border **$29.30**

Tree—13½ inch solid fork.
Horn—Leather covered.
Seat—Full leather.
Cantle—Tacked.
Cinchas—3 inch, white web.
Stirrup Leathers—1⅛ inch, to buckle.
Stirrups—Hooded.
Latigos—1 inch.
Weight—About 11 lbs.

Each

No. 0195 . . . . . **$36.90**

The "Beland" Track Drill

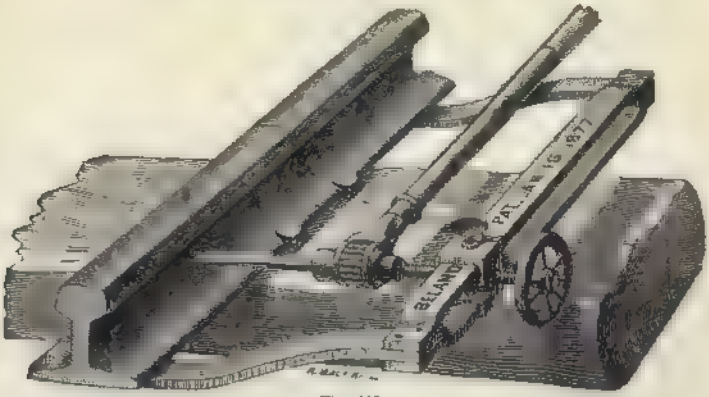


Fig 115

The "Beland" is the pioneer in the matter of track drills, and is so well known and universally used that we scarcely need to say a word in its favor.

To those wishing a thoroughly reliable hand feed drill, the "Beland" completely fills the requirements.

We still maintain the high standard of excellence as regards material and workmanship.

It is made of wrought and malleable iron and cast steel

Price.. ... .each $10 00

The "Underwood" Track Drill

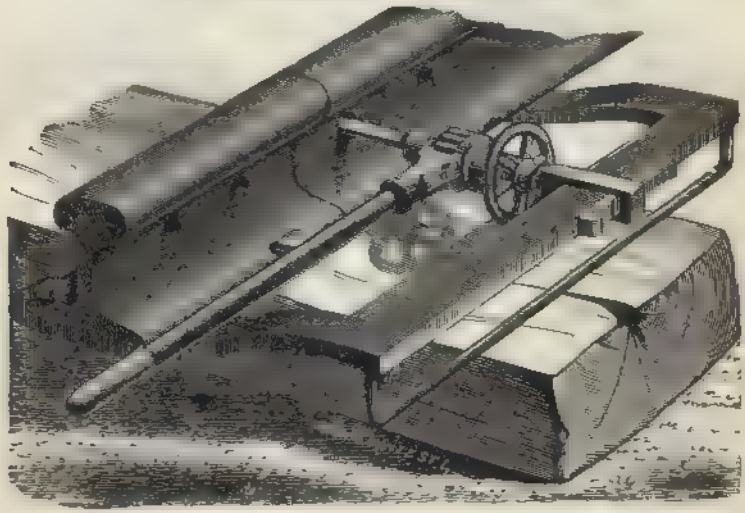
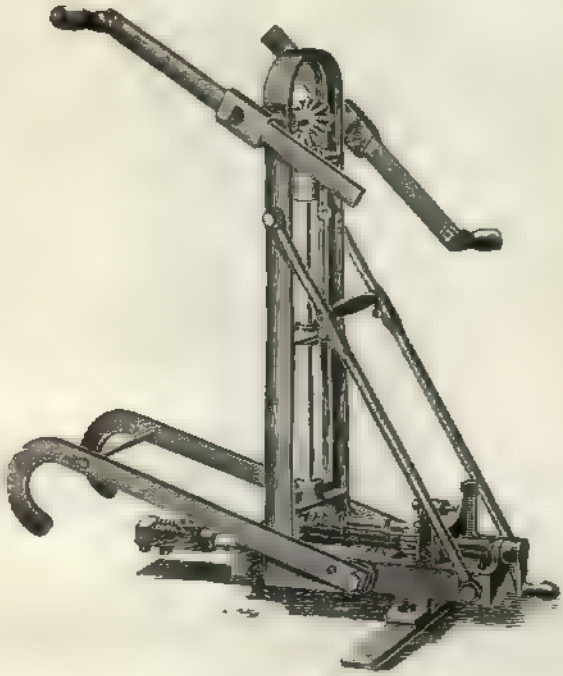


Fig 116

A hand feed drill, second only to the "Beland" in popularity and as widely known and used. As with our other tools, we use only such materials in construction as our long experience in the manufacture and sale of these tools convince us to be the best obtainable

Price.. ....each $10 00

Handlan Track Drill

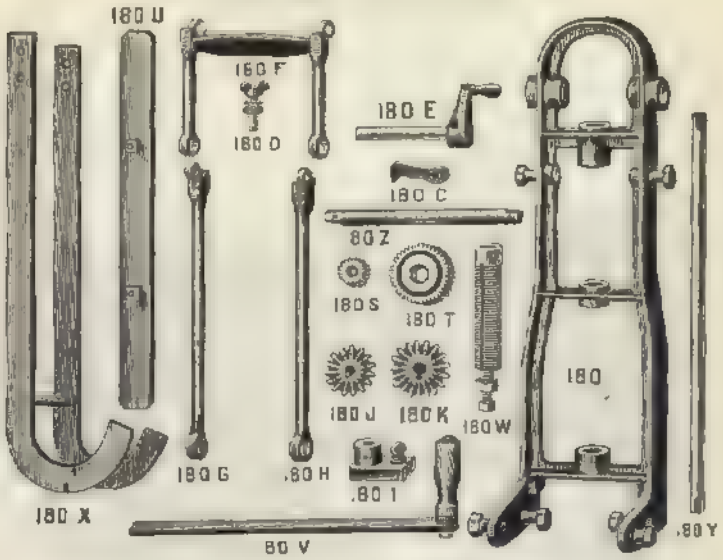


Extra heavy, and with many new features, automatic feed, adjustable handles, improved bit chuck, less number of repair parts.

Price, equipped with Handlan High Speed Drill Chuck ..... each $30.00

Takes a flat beaded high speed steel bit. See page 347

Handlan Drill Parts



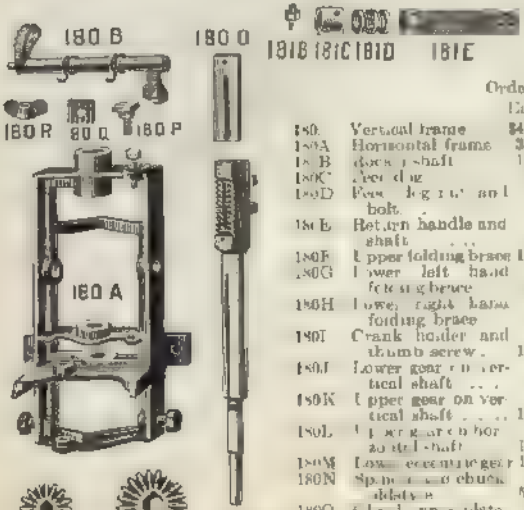


Fig 118
Order by Number

		Each
180.	Vertical frame	$4 00
180A.	Horizontal frame	3 50
180B.	Rock shaft	1 00
180C.	Feed dog	50
180D.	Feed leg rack and bolt	20
180E.	Return handle and shaft	50
180F.	Upper folding brace	1 00
180G.	Lower left hand folding brace	50
180H.	Lower right hand folding brace	50
180I.	Crank holder and thumb screw	1 00
180J.	Lower gear on vertical shaft	50
180K.	Upper gear on vertical shaft	1 00
180L.	Upper gear on horizontal shaft	1 00
180M.	Lower eccentric gear	1 25
180N.	Spindle chuck sleeve	5 00
180O.	Chuck inner plate	20
80J.	Bit adjustment knock out bolt	30
180Q.	Bit adjustment ratchet plate	30 20
180R.	Bit adjustment wing nut	10
180S.	Rapid return gear	75
180T.	Rapid return gear	2 00
180U.	Foot plate	50
180V.	Adjusting eccentric bolt	1 25
180W.	Feed screw	1 50
180X.	Feed screw	1 25
180Y.	Vertical shaft	1 00
180Z.	Horizontal shaft	75
181.	Spindle and chuck sleeve	6 00
181A.	Spindle and chuck sleeve	4 00
181B.	Spindle chuck screw and nut	50
81C.	Spindle chuck sleeve	1 00
181D.	Spindle knock out bushing	3 50
181E.	Spindle chuck steel screw	00

Paulus Automatic Feed Track Drill

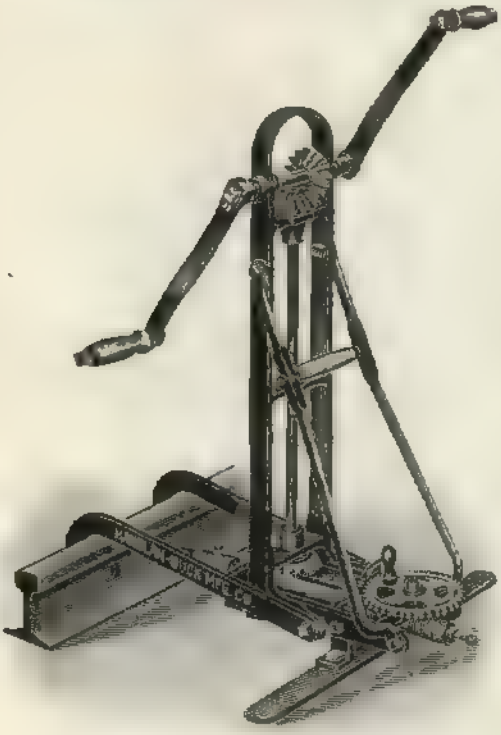


Fig. 119

Over Clutch

In position for drilling

With adjusting wheel for quickly feeding the bit to the rail and for rapidly withdrawing the bit after drilling is made

Price, equipped with spindle for $^{5}/_{8}$ inch shank twist drill each $25 00

Paulus Track Drill

REPAIR PARTS

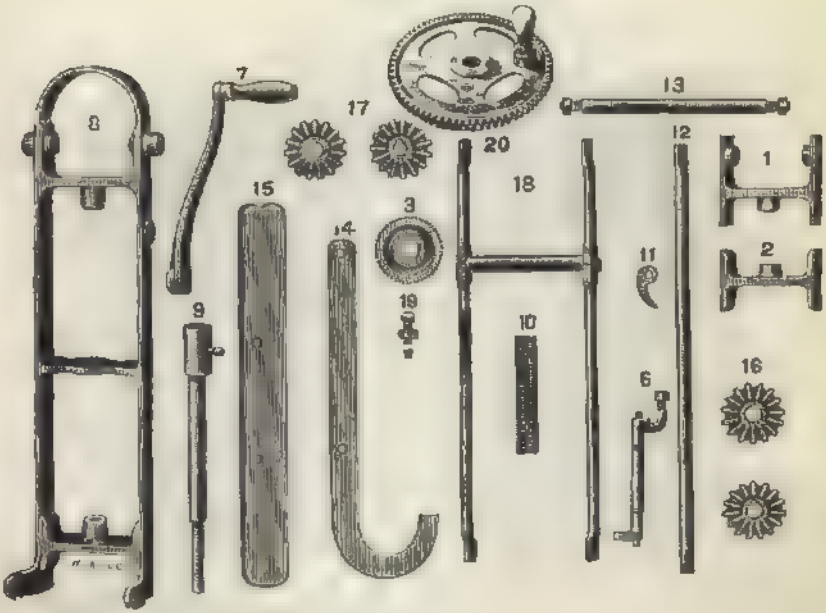


Fig 120

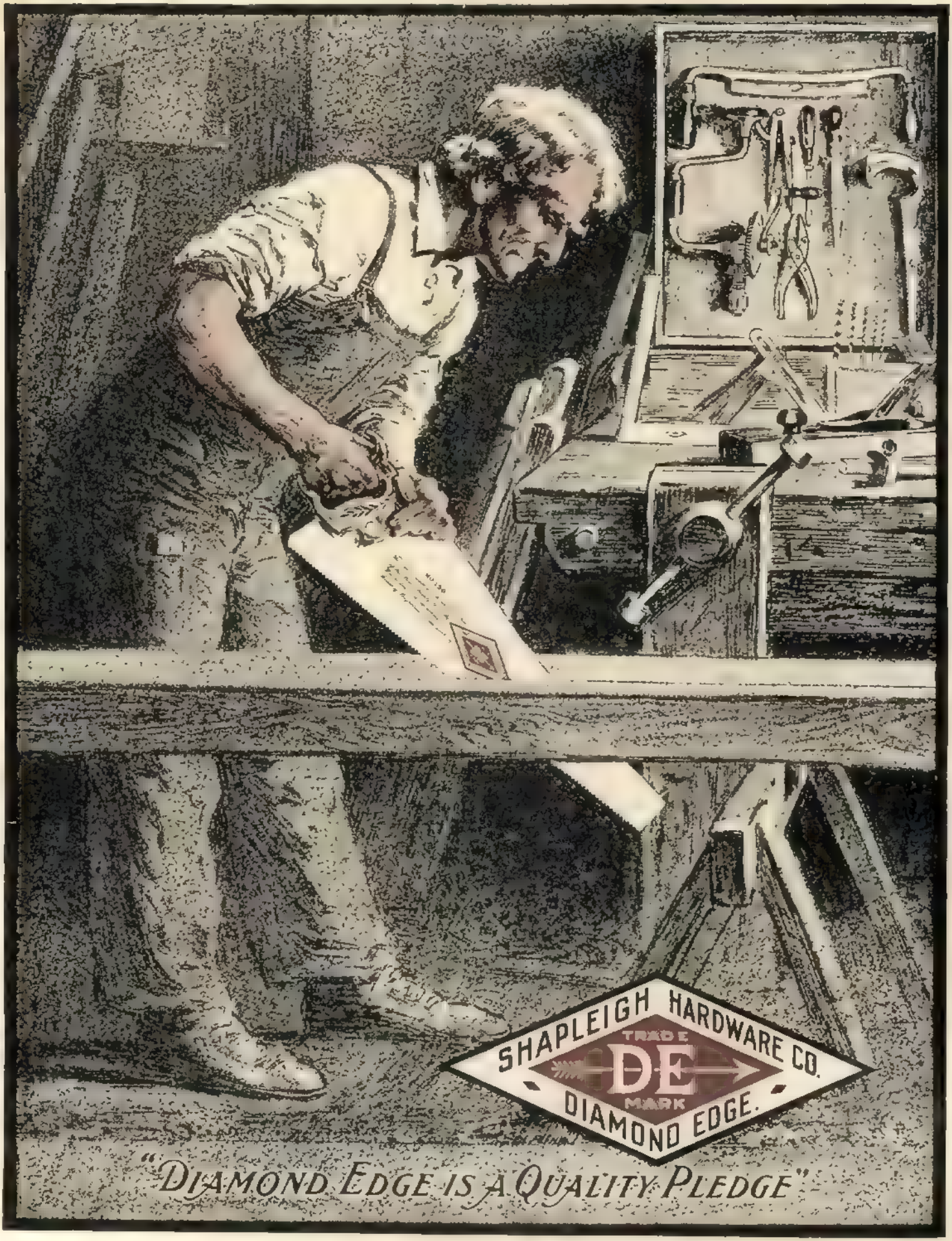
List of Repair Parts Paulus Track Drill

Order by Number

No.		Each
3	Ratchet wheel	$2 00
4.	Housing for ratchet wheel	1 50
5.	Lower frame	2 00
6.	Rocker shaft	.90
7.	Two cranks	1 00
8.	Upper frame, new style	3 50
9.	Spindle	3 00
10	Feed screw	1 75
11	Ratchet feed dog	25
12.	Vertical shaft	$1 00
13.	Crank shaft	.75
14	Rail hooks	1 05
15	Foot plate	50
16.	Upper gears	1.00
17.	Lower gears	1.00
18.	Back brace	1 75
19.	Set screw	.10
20.	Rapid adjusting wheel	2 00

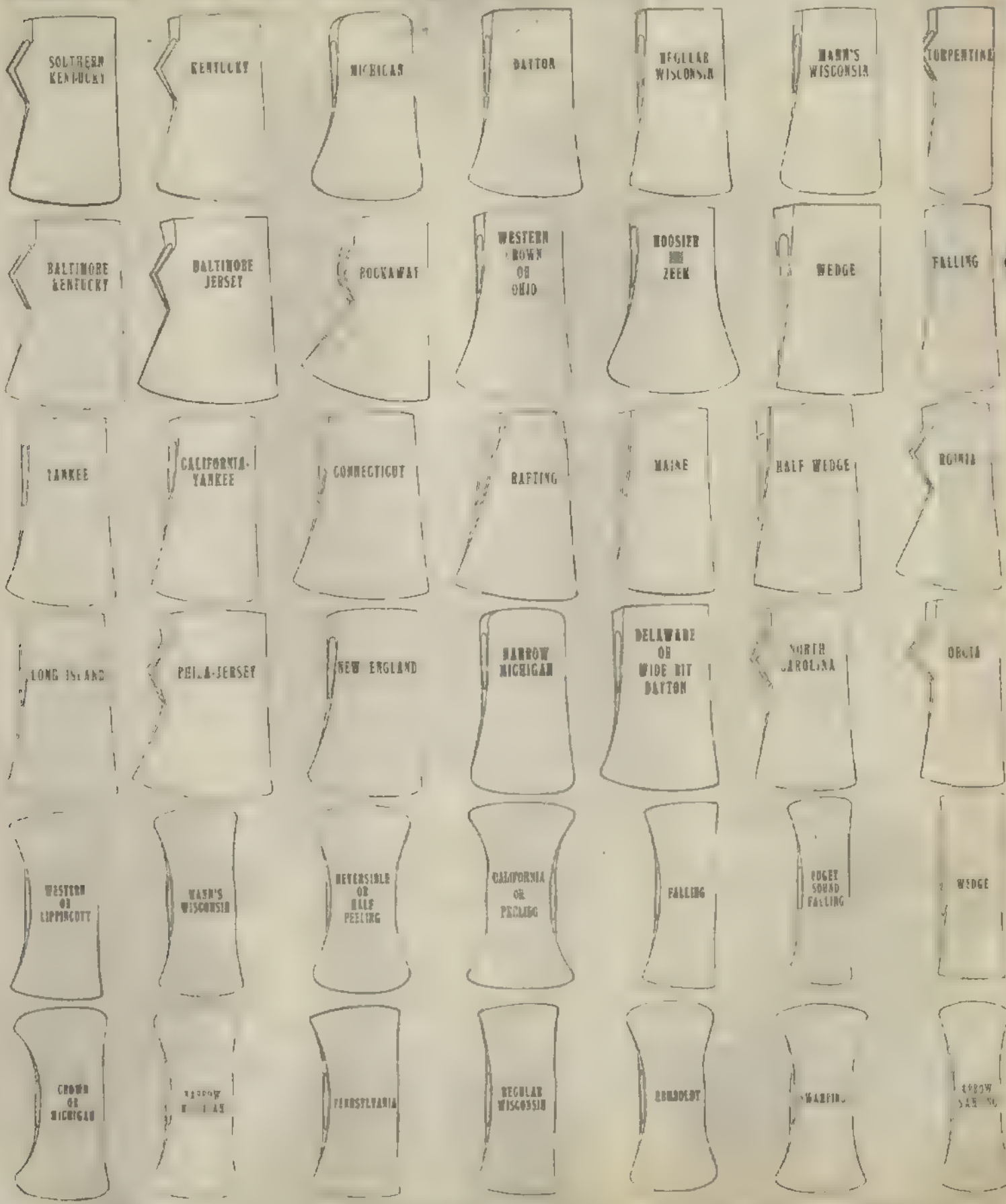
1. Upper box, old style.....$1 00 2. Lower box, old style.....$0.75

DIAMOND EDGE
DE
DIAMOND EDGE QUALITY
CRUCIBLE STEEL BIT
WE DO NOT
HESITATE TO
FULLY WARRANT
DIAMOND EDGE
AXES
"QUALITY COUNTS"
SHAPLEIGH HARDWARE CO.
TRADE
DE
MARK
DIAMOND-EDGE
DOMESTIC
AND
FOREIGN ORDERS
SOLICITED
CRUCIBLE
STEEL
BIT
SOFT
STEEL


SHAPLEIGH HARDWARE CO.
TRADE
DE
MARK
DIAMOND EDGE.
"DIAMOND EDGE IS A QUALITY PLEDGE"

AXES

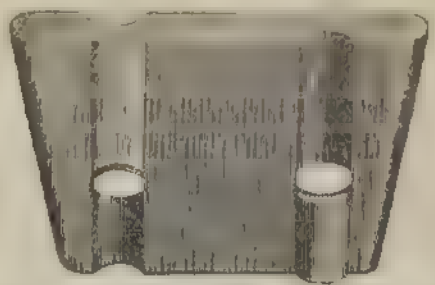
The Illustrations below show the Outlines of the Various Patterns of Axes. All of these Patterns can be Furnished in any of the Brands Shown on the Following Pages. Those Patterns and Brands which are Not Included with our Cataloged Brands for Stock Shipment [illegible] can be Furnished Only for Direct Shipment from [illegible]



DIAMOND EDGE AXE WEDGES

The *DIAMOND EDGE* Axe Wedge is Used by Us Exclusively in Handling Axes, because it cannot Work Loose from the Handle, but can be Driven Further In, Should the Wood Shrink.

We do not Sell These Wedges Alone.



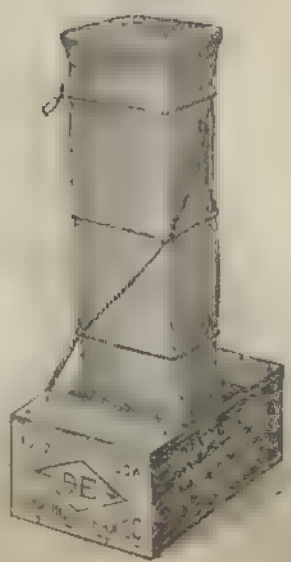
Cut Shows Wedge of Proper Size

The *DIAMOND EDGE* Axe Wedge is Used by Us in [illegible] Styles of Our Handled Axes (except the Falls City, which We Buy of the Factory Already Handled). Our Exclusive Brands as well as Manufacturers' Brands are Handled by Us in our Own Plant, and no other Wedge is Used.

The *DIAMOND EDGE* Axe Wedge Positively Prevents the Axe Flying Off the Handle. [illegible] Work Out, Be Driven Further In, Should the Handle Shrink. The Wedge Cuts [illegible] Presents the Wedge from Working Loose. This [illegible] Wedge [illegible] Axes Handled by Us [illegible] Axes Handled in Our Own Plant, and [illegible] Wedge [illegible] Axes Handled in Our Own Plant. [illegible] Wedge [illegible] Axes Handled in Our Own Plant.

Cut Shows Wedge Driven in Handle and Handle Pulled Open to Show Binding Effect Produced by Action of Wedge.

Cut Shows Handle Broken Open to Show the Two Round Slivers Cut by Wedge.



Cut Shows Crate of Handled Axes Put Up by Us for Shipment. All of our Handled Axes are Put Up in Crates of One Dozen. The Axes are Held Firmly and Securely in Place and do not Rub or Scratch Each Other. The Handles are Covered with a Heavy, Tough Fibre Paper Bag and Securely Tied, Protecting Them from Dust, Dirt, Water and Damage in Shipping and Storing

SINGLE BIT AXES

*DIAMOND EDGE PHANTOM BEVELED

Full Polished and Etched

DIAMOND EDGE Axes are Recognized as being the Best Made. They are Hand Tempered [illegible] Axes are carefully tested before leaving the factory [illegible] prevents Axes with Flaws or Soft Cutting Edges reaching the User. It also Insures Uniformity of Temper without which an Axe will not Hold a Fine Sharp Cutting Edge.

Highest Grade **Crucible Steel** Bit, Carefully Tempered and Ground. The **Eyes are Punched** from Solid Steel, and will not Stretch nor Break, as occurs with Axes having a Rolled or Welded Eye. The Eye is Tapered from the Outer to the Inner Opening; this Holds the Handle firmly and Prevents its Splitting

In Ordering Axes on this Page, Give Numbers and Weights Only

UNHANDLED

Phantom Beveled; Full Polished and Etched

No. DE550 - YANKEE PATTERN
Wide Bit, Narrow Square Head

Weights, Assorted.....	3 4	3½ 4½	4 5
Per Dozen.....	$22 50	22 50	23 00

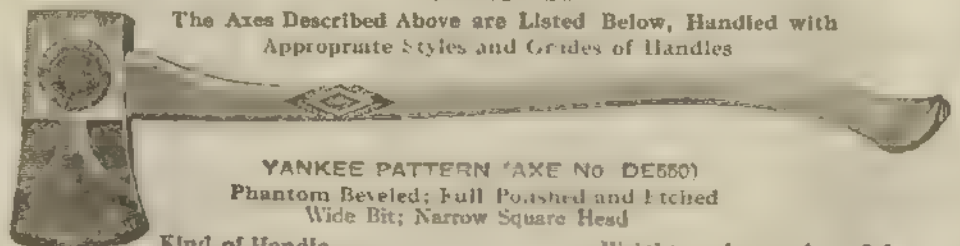
No. DE575—MICHIGAN PATTERN
Wide Bit, Round Head

Weights, Assorted.....	3 4	3½/4½	4 5
Per Dozen	$22 00	22 50	23.00

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 75 lb.

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles



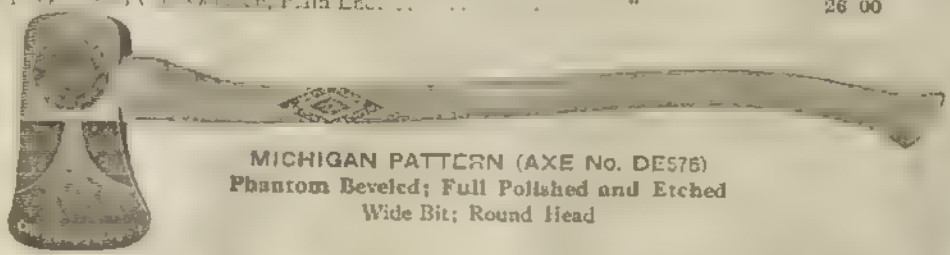
THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

YANKEE PATTERN (AXE No. DE550)
Phantom Beveled; Full Polished and Etched
Wide Bit; Narrow Square Head

Kind of Handle	Weights, Assorted Per Dozen	3 4	3½/4½	4 5
No. DE550AAA —With No. AAA Nor[illegible] Diamond Octagon, Plain End		$29 50	$30 00	$30 50
No. DE550BBB —With No. BBB Norleigh Diamond Oval, Plain End	"	29 50	30 00	30 50
No. DE550A —With No. A Norleigh Diamond Octagon, Scroll End		29 00	29 50	30 00
No. DE550B —With No. B Norleigh Diamond Oval, Scroll End		29 00	29 50	30 00
No. DE550BN —With No. BN Norleigh Diamond Oval, Plain End, Light Northern		29 00	29 50	30 00
No. DE550C —With No. C Favorite Octagon, Scroll End	"	28 00	28 50	29 00
No. DL550D —With No. D Favorite Oval, Scroll End	"	28 00	28 50	29 00
No. DE550DN —With No. DN Favorite Oval, Plain End, Light Northern		28 00	28 50	29 00
No. DE550EH —With No. EH Favorite Octagon, Plain End	"	28 00	28 50	29 00
No. DE550E —With No. E Tip Top Octagon, Plain End		27 00	27 50	28 00
No. DE550XE —With No. XE Tip Top Octagon, Straight Pattern	"	27 00	27 50	28 00
No. DE550F —With No. F Tip Top Oval, Plain End	"	27 00	27 50	28 00
No. DE550XF —With No. XF Tip Top Oval, Straight Pattern	"	27 00	27 50	28 00
No. DE550TTN —With No. TTN Tip Top Oval, Plain End, Light Northern		27 00	27 50	28 00
No. DE550L —With No. L Narrow Oval, Plain End	"	26 00	26 50	27 00
No. DE550LO —With No. LO Narrow Oval, Scroll End, Oak	"	27 00	27 50	28 00
No. DE550LLO —With No. LLO Long Oval, Plain End, Oak	"	27 00	27 50	28 00
No. DE550PLO —With No. PLO Panama Octagon, Plain End	"	26 00	26 50	27 00

DIAMOND EDGE Axe Wedge Used in all Our Handled Axes. Full Description on Page 3.

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



MICHIGAN PATTERN (AXE No. DE575)
Phantom Beveled; Full Polished and Etched
Wide Bit; Round Head

Kind of Handle	Weights, Assorted Per Dozen	3 4	3½ 4½	4 5
No. DE575AAA —With No. AAA Norleigh Diamond Octagon, Plain End		$29 50	$30 00	$30 50
No. DE575BBB —With No. BBB Norleigh Diamond Oval, Plain End		29 50	30 00	30 50
No. DE575A —With No. A Norleigh Diamond Octagon, Scroll End	"	29 00	29 50	30 00
No. DE575B —With No. B Norleigh Diamond Oval, Scroll End	"	29 00	29 50	30 00
No. DE575BN —With No. BN Norleigh Diamond Oval, Plain End, Light Northern		29 00	29 50	30 00
No. DE575C —With No. C Favorite Octagon, Scroll End		28 00	28 50	29 00
No. DE575D —With No. D Favorite Oval, Scroll End		28 00	28 50	29 00
No. DE575DN —With No. DN Favorite Oval, Plain End, Light Northern		28 00	28 50	29 00
No. DE575EH —With No. EH Favorite Octagon, Plain End	"	28 00	28 50	29 00
No. DL575E —With No. E Tip Top Octagon, Plain End		27 00	27 50	28 00
No. DE575XE —With No. XE Tip Top Octagon Straight Pattern		27 00	27 50	28 00
No. DE575F —With No. F Tip Top Oval, Plain End		27 00	27 50	28 00
No. DE575XF —With No. XF Tip Top Oval Straight Pattern		27 00	27 50	28 00
No. DL575TTN—With No. TTN Tip Top Oval, Plain End, Light Northern		27 00	27 50	28 00
No. DE575L —With No. L Narrow Oval, Plain End		26 00	26 50	27 00
No. DE575LO —With No. LO Narrow Oval, Scroll End Oak		27 00	27 50	28 00
No. DE575LLO —With No. LLO Long Oval, Plain End, Oak		27 00	27 50	28 00
No. DE575PLO —With No. PLO Panama Octagon, Plain End		28 00	28 50	29 00

One Dozen of Each Assortment of Weights in a Crate; Weight per Crate 75 lbs

CUTLERY DISPLAY CASES

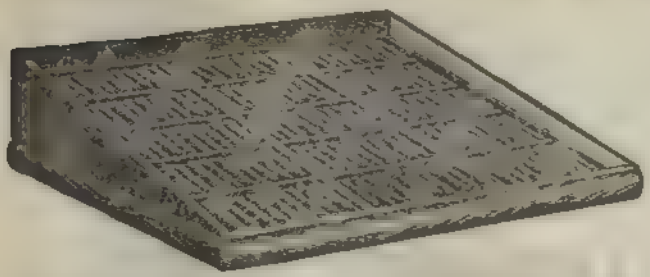
FOR DISPLAYING POCKET KNIVES

NOTE We do not Sell these Cases with *DIAMOND EDGE*, Bridge or Empire Etching. Each Case is Marked with a Small, Neat, Red and Gold Decalcomania Sign, Underneath the Glass at the Top of the Show Case, Reading:

"SHAPLEIGH HARDWARE COMPANY, Established 1843, St. Louis, U. S. A."

See Our Salesman or Write Us for Proposition.

They will be Sold Without Etching at Prices Marked.

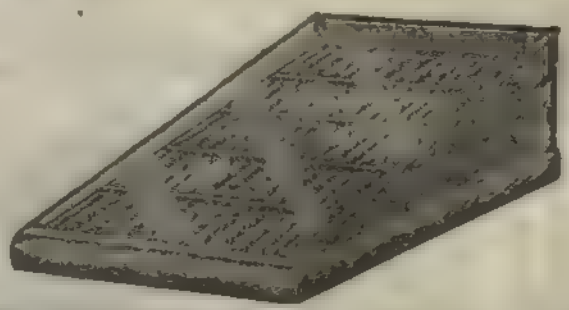


Finest Quality Selected Oak Frame, Golden Finished, Polished and Varnished; Plate Glass Top; Made with Three Partitions and Green Silk Plush Covered, Removable Trays. Each Tray has 5 Partitions, Holding 9 Knives each; 135 Knives Displayed in the Entire Case. Two Drawers in Lower Part of Case so Arranged as to Keep a Small Excess Stock. Rubber Buttons on Bottom of Case Prevents Scratching. Hinged Drop Down Door at Back, with Lock and 2 Keys.

Each

No. T—Length 28 inches, Width 24 inches, Height in Front 1¾ inches, Height in Back 3 inches **$40.00**

Weight Crated, 35 Pounds.



Finest Quality Selected Oak Frame, Golden Finished, Polished and Varnished; Plate Glass Top; Made with Green Silk Plush Covered Removable Trays, with Spaces to Hold 10 Pocket Knives, 12 in a Row; Drawer in Lower Part so Arranged as to Keep a Small Excess Stock. Hinged Drop Door at Back with Lock and Key. Rubber Buttons on Bottom Prevents Scratching and Prevent Knives Slipping.

Each

No. R—Length 24 inches, Width 12½ inches, Height in Front 1¾ inches, Height in Back 3½ inches **$20.00**

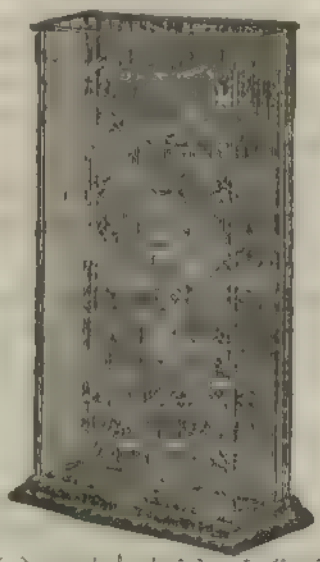
Weight Crated, 18 Pounds.

Finest Quality Selected Oak Frame, Golden Finish, Polished and Varnished; Plate Glass Top, Front and Sides; Made with Three Green Silk Plush Covered Removable Trays, with Space for Holding 48 Knives; These Trays Rest on a Partition, with Space Underneath for Duplicate Stock; Hinged Drop Down Door in Back, with a Lock and Two Keys; Rubber Buttons on Bottom of Case Prevent Scratching.

Each

No. P—Length 25½ inches, Height 7 inches, Width 10 inches ... **$20.00**

Weight Crated, 25 Pounds.



Finest Quality Selected Oak Frame, Golden Finish, Polished and Varnished; Plate Glass Top, Sides and Front, Back is Covered with Green Felt Billiard Cloth, Twenty-four Nickel Plated, Felt Lined, Spring Clips; Holds as Many Knives, Scissors, Manicure Items, etc., in any Position; Complete with Lock and Two Keys.

Especially Intended to Display Pocket Knives, but will also be Found to Display Scissors, Razors, Manicure Items, and other Small Items of Cutlery to the Best Advantage.

Each

No. N—Height 25½ inches, Length 13¾ inches, Width 5 inches ... **$20.00**

Weight Crated, 15 Pounds

CUTLERY PRICE BUTTONS

These Price Buttons will be found most Convenient for the Merchant in marking up a Quantity of Pocket Knives, Razors, Scissors or Shears. They can be handled more easily and quickly than Loose Labels and without the Waste.

Made of White Celluloid with Metal Base ⅝ inches in Diameter and Equipped with a Strong Steel Pin ⅜ inch in length. We will furnish free, One Price Button for each number of Knives, Scissors, Razors Etc., that are bought and for which a Merchant wants a Price Button.

The prices range from Twenty five Cents to Three Dollars and can be furnished in the following Fifteen Patterns only—25c, 35, 50, 65, 75, 85 $1.00, 1.15, 1.25, 1.50, 1.75, 2.00, 2.25, 2.50 and 3.00.

Very Important—When ordering Price Buttons always state the Prices wanted and which the numbers are to represent, by referring to the letter "C" in front of Price Buttons wanted, as this will indicate each button's number, for instance, a 25c button would be Number C25, a $3.00 button Number C300

CUTLERY DISPLAY CASES

NOTE—We do not Sell these Cases with *DIAMOND EDGE* or Empire Etching. They are only so Etched when Furnished Free of Charge with Our Special Cutlery Offer. See Our Salesman or Write Us for Proposition.

They will be Sold Without Etching at Prices Marked.

Finest Quality Golden Oak Frame; **Double Strength** Glass Front, Sides and Top; **Mirror Lined** Sliding Doors at the Rear. Each Case is Provided with 49 Lithographed Cardboard Pocket Knife Boxes, with Spring on Top to Hold Knives in Place. Front Glass Etched with Our *DIAMOND EDGE* Trade Mark or Empire Cutlery.

Each

No. H3—Length 3 Feet; Height 12 inches; Width 24 inches..... **$10.00**

Weight Crated, 55 pounds.

Finest Quality Selected Oak Frame, Golden Finish, Polished and Varnished, **Double Strength** Glass Front, Sides and Top; **Mirror Lined** Sliding Doors at the Rear; has Raised Platform 4 inches high, Divided into Sections for Cutlery Display. Entire Platform Covered with Red Silk Plush. Provided with Drawers Underneath Platform, Divided into Compartments to Hold a Stock of Cutlery Corresponding with the Samples Displayed on the Platform. **Front Glass Etched with Our *DIAMOND EDGE* Trade Mark or Empire Cutlery.**

3½ FEET WITH ONE DRAWER

Platforms Spaced for 63 Patterns of Pocket Knives, 12 Pair of Scissors and Shears and 4 Razors. Each

No. G3½—Length 3½ Feet; Height 17 inches; Width 28 inches... **$25.00**

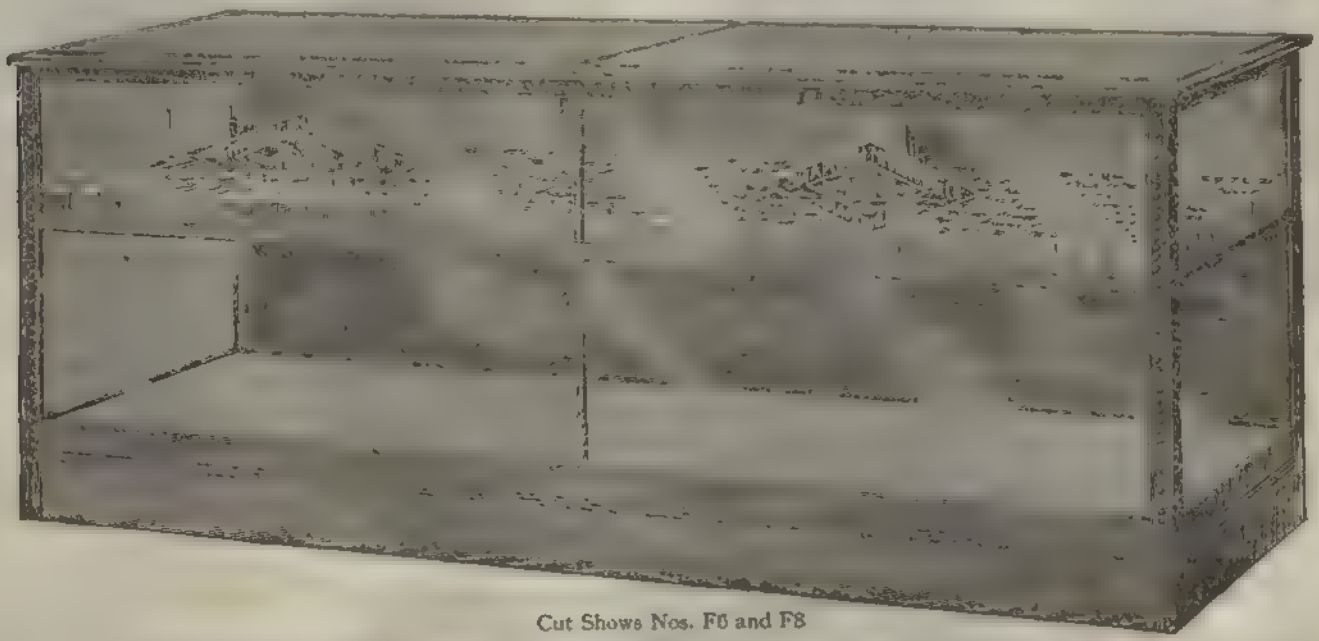
Weight Crated, 110 pounds.

4½ FEET WITH 2 DRAWERS

Platforms Spaced For 74 Patterns of Pocket Knives, 12 Pair of Scissors and Shears and 4 Razors. Each

No. G4½—Length 4½ Feet; Height 17 inches; Width 28 inches....**$35.00**

Weight Crated, 145 pounds.



Cut Shows Nos. F6 and F8

Finest Quality Selected Oak Frame, Golden Finish, Polished and Varnished, Fancy Beaded Columns, Closed Base, No Openings for Dust and Dirt to Collect, **Double Strength** Glass Front and Sides, Bevel Plate Glass Ends, **Mirror Lined** Sliding Doors, Upper Compartment Nicely Finished Wood Lined Sliding Doors and Lower Compartment. Part of the Upper Compartment Extends Entire Depth of Case from Front to Rear, which is Unlike the Average Case Having Two Shelves, Makes it Convenient to Get at the Goods. Front Glass Etched with Our *DIAMOND EDGE* **Trade Mark or Empire Cutlery**

With Each Display Case We will Furnish a sufficient number of Plush Covered Stock Lined Cutlery Boxes to Cover the Base of the Upper Compartment only. We Furnish all Pocket Knife Boxes only, or Assorted for Pocket Knives, Scissors, Shears and Razors, but no More than will Exactly Cover the Base of the Upper Compartment.

4 FEET

Single Glass Top and Front. Requires 85 Pocket Knife Boxes to Cover Base of Upper Compartment.

Each.

No. F4—Length 4 Feet; Height 42 inches; Width 28 inches..... **$50.00**

Weight Knocked Down and Crated, 215 lbs.

6 FEET

Double Glass Top and Front. Requires 130 Pocket Knife Boxes to Cover Base of Upper Compartment.

Each

No. F6—Length 6 Feet; Height 42 inches; Width 28 inches..... **$70.00**

Weight Knocked Down and Crated, 290 lbs.

8 FEET

Double Glass Top and Front. Requires 175 Pocket Knife Boxes to Cover Base of Upper Compartment.

Each

No. F8—Length 8 Feet; Height 42 inches; Width 28 inches..... **$100.00**

Weight Knocked Down and Crated, 380 lbs.

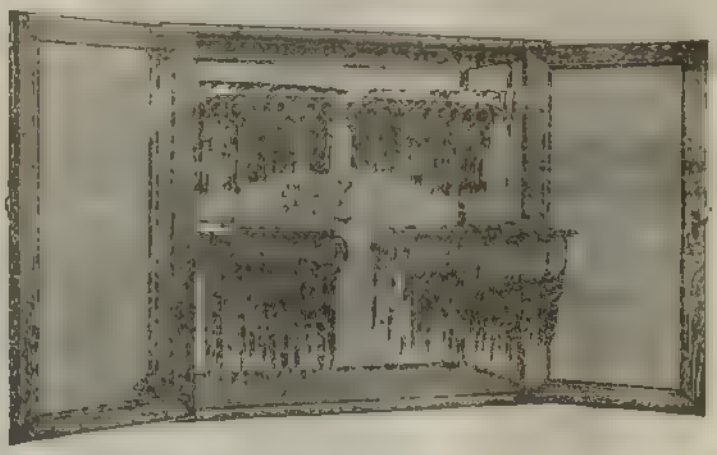
SCISSOR AND SHEAR DISPLAY CASES

DIAMOND EDGE

(Patented. Controlled by Us. Our Own Patent.)

NOTE—We do not Sell these Cases with *DIAMOND EDGE* or Empire Etching. They are only so Etched When Furnished Free of Charge with Our Special Cutlery Offer. See Our Salesman or Write Us for Proposition. They will be Sold Without Etching at Prices Marked.

The Most Practical Case of its Kind on the Market. The Adjustable Brackets Hold a Complete Line of all Sizes, Perfectly Displayed from All Sides. To Handle Stock, Simply Open Doors of Case and Pull Out Any Arm Desired. These Arms Swing on Long Metal Uprights; to Throw Them Completely Out of Case (Displaying Each Shear on the Adjustable Hooks and Brackets), Pull Out the Arms, One or All at a Time, as Desired. The Upper Arms are Intended to Display Scissors and the Lower Arms for Shears Including 10 Inch Lengths. On the Bottom of Case Can Be Displayed Paper Hangers or Bankers Shears, or Razors, etc. The Scissors and Shears are Hung on Adjustable Hooks so that Each Article Hangs Perfectly Straight. An Entire Stock of Goods can be Displayed in these Cases and will Increase a Merchants Sales more than Any Show Case ever Offered.



Cut Shows Rear View of No. A Case with Doors Open and Two Lower Arms Pulled Entirely Out.

Finest Quality Selected Solid Oak Frame, Golden Finish, Double Strength Glass on All Sides; Wood Top; Arms and Brackets Malleable Iron and Steel, Nickel Plated and Polished. Red Velvet Covered Bottom.

SINGLE STANDARD	Each
No. B—Height 24 inches; Width 13½ inches; Depth 12 inches; Will Display from 9 to 10 Dozen Assorted Sizes of Scissors and Shears; Weight Crated, 44 lbs	$22.00

DOUBLE STANDARD	Each
No. A—Height 24 inches; Width 25 inches; Depth 12¾ inches; Will Display Over 18 Dozen Assorted Sizes of Scissors and Shears; Weight Crated, 61 lbs	$30.00

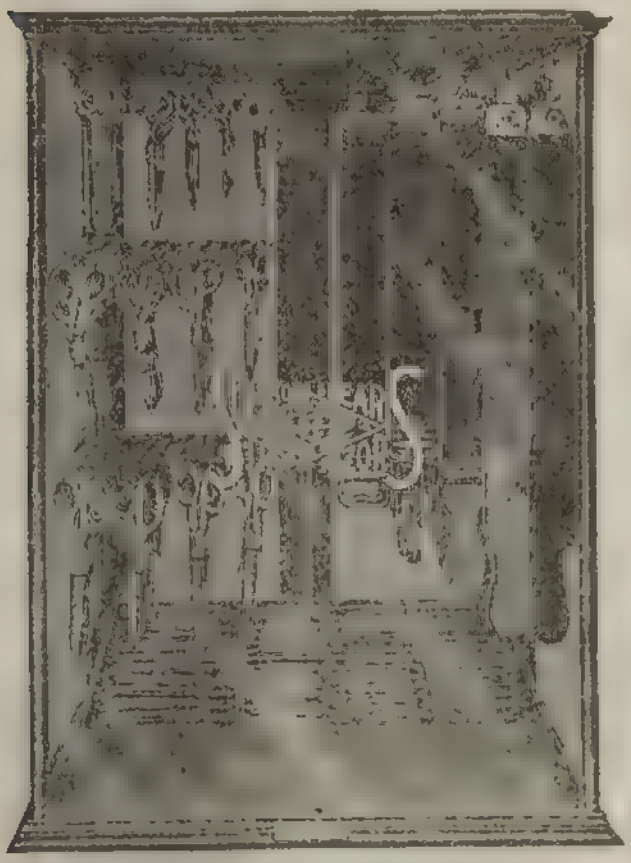
A Practical Case for Displaying Scissors and Shears, Made of Best Grade of Hardwood Mahogany Finish; Plate Glass Top; Made with Green Silk Plush Lined Drawer, Divided into Twelve Spaces so as to Display Twelve Scissors or Shears; Lower Part of Case so arranged as to keep a small Excess Stock; Rubber Buttons on Bottom of Case Prevent Scratching; Hinged Drop Down Door at Back with Lock and Two Keys.

No. Q—Length 30 inches, Width 10½ inches, Depth 3½ inches, Weight 9 lbs. Each $14 00

One in a Box

CUTLERY DISPLAY CASES

NOTE We do not Sell these Cases with *DIAMOND EDGE* or Empire Etching. They are only so Etched when Furnished Free of Charge with Our Special Cutlery Offer. See Our Salesman or Write Us for Proposition. They will be Sold Without Etching at Prices Marked.



*DIAMOND EDGE

COMBINATION

(Patented. Controlled by Us. Our Own Patent.)

A Practical and Decided Novelty. A Case for a Quantity of Very Profitable Goods in a Comparatively Small Space. Rests on Top of a Counter or Another Case. Goods Better and More Attractively Displayed in this Case than any Ever Made. What Sells a Line of Goods Quicker than to have them Well Shown? Very Handy and Simple to Get at—just Pull out the Main Arms of Each Upright Standard Toward the Back of the Case and Each Class of Goods is put in Position to be Easily Handled by the Salesman. The Upright Sustaining the Scissors and Shears is Fitted with Arms, Strung with Adjustable Hooks, so Each Pair of Scissors and Shears will Hang in a Perpendicular Position. Ten to Fifteen Dozen Scissors and Shears can be Hung on these Arms. On the Other Upright, One Main Arm is Fitted with Four Secondary Arms to Hang Razor Strops on and will Display Four to Five Dozen Strops. In the Bottom of the Case is a Finely Made Wood Display Filler, Covered with a Fine Waterproof Cloth. This Filler is Fitted with Numerous Fibre Partitions or Compartments to Hold a Stock of 42 Patterns of Pocket Knives and 12 Patterns of Razors. These Partitions are Covered with Fine Purple Silk Plush Covered Lids (Two for Razors, Six for Pocket Knives), with Raised Partitions Corresponding with the Ones in the Bottom of Filler. This is a Very Unique and Practical Display Case in Itself.

Finest Quality Selected Solid Oak Frame, Golden Finish; **Double Strength** Glass on all Sides; Wood Top; Arms and Brackets Malleable Iron and Steel, Nickel Plated and Polished.

	Each
No. C—Height 36 inches; Width 26½ inches; Depth 20½ inches.... Weight Crated, 105 lbs.	**$40.00**

Cut Shows No. D, Double Standard Case

*DIAMOND EDGE

RAZOR STROP

(Patented. Controlled by Us. Our Own Patent.)

The Only Practical Case Made for Displaying Razor Strops. Razor Strops are Difficult to Show to the Best and Greatest Easily; also Become Dry, Dusty and Finger Marked when Displayed in the Regular Way, i. e., Hanging up in the Open Air, and then they are not Well Shown.

This Method of Displaying Razor Strops is a Profit Maker and is a Silent Salesman, Showing More Strops than any Other Means Heretofore Known.

To get at the Stock in the Case, each Main Arm Turns on the Standard and Swings out at the Back of the Case, Throwing Every Strop Out in Easy Access to the Salesman. Nothing Could be as Simple. More Sales can be Made out of a Case of this Character, and in a Short Time it will Pay for Itself.

Finest Quality Selected Solid Oak Frame, Golden Finish; **Double Strength** Glass on all Sides; Wood Top; Arms and Brackets Malleable Iron and Steel, Nickel Plated and Polished.

SINGLE STANDARD

Will Display Four to Five Dozen Strops

	Each
No. E—Height 34 inches; Width 15 inches; Depth 12½ inches.....	**$20.00**

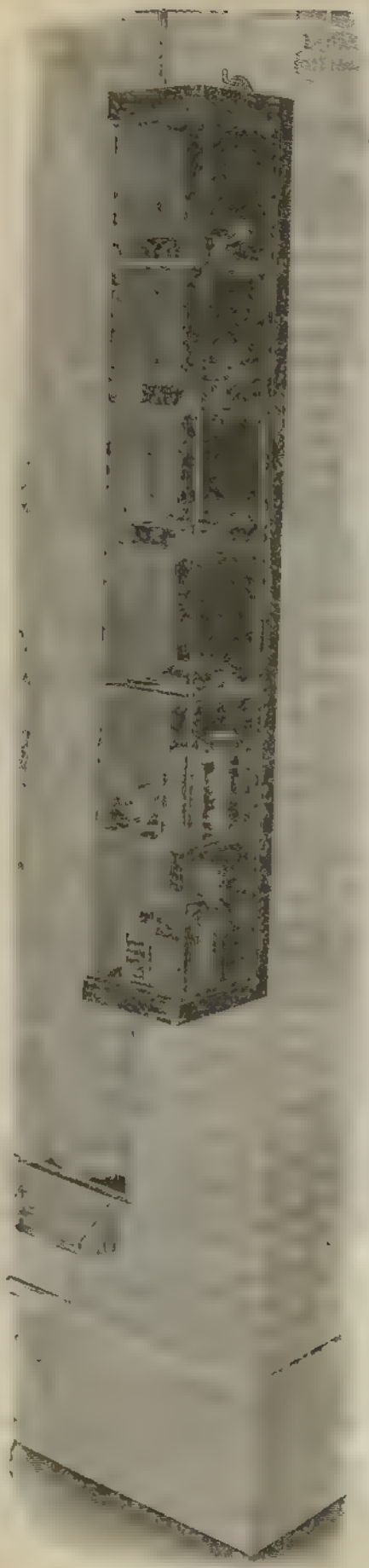
Weight Crated, 55 lbs.

DOUBLE STANDARD

Will Display 8 to 10 Dozen Strops

	Each
No. D—Height 32 inches; Width 25 inches; Depth 12¾ inches..... Weight Crated, 80 lbs.	**$30.00**

CUTLERY OUTSIDE DISPLAY CASES



No. IMS—Outside Case

"OUTSIDE"

NOTE—We do not sell these Cases with DIAMOND EDGE etching. They are only so etched when furnished free of charge with our special Cutlery offer. See our salesmen or write us for proposition.

They will be sold without etching at prices marked.

Finest Quality Golden Oak Frame; Plain Plate Glass Front and Sides; Metal Top and thoroughly waterproof. Hinged door in back, fitted with lock and key; also fitted with a heavy metal strap, with ½ inch hole, to hang up outside. Has five shelves, besides the base, covered with green silk plush; shelves about 7½ inches apart.

Each

No. IMS—Height 52 inches; Depth 8 inches; Width 6½ inches. Top and Base. Glass measurement: Depth 6 inches; Width 6 inches; Height 47½ inches. Approximate weight, boxed, 48 pounds..... **$20 00**

Finest Quality Golden Oak Frame; Plain Plate Glass Front and Sides; Metal Top and thoroughly waterproof. Keystone-shaped Filler, covered with green silk plush; small articles of Cutlery can be fastened on both sides and front of this filler and attractively displayed. Filler fastened to back of case with screws. Has a heavy metal strap with ½ inch hole to hang up outside.

Each

No. ILI—Height 52 inches; Depth 8 inches; Width 6½ inches; Glass measurement: Depth 6 inches; Width 6 inches; Height 47½ inches. Approximate weight, boxed, 55 pounds..... **$20.00**

No. ILI—Outside Case

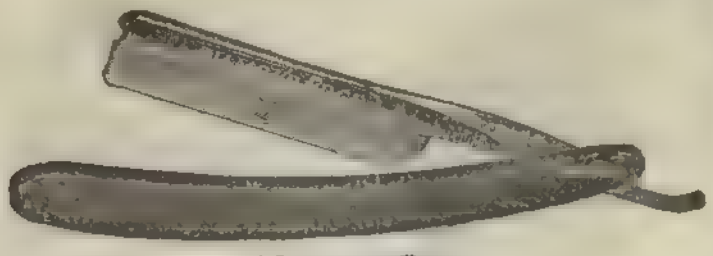
RAZORS

*DIAMOND EDGE

Diamond Edge Razors are Hand Forged from the Best English Crucible Cast Steel, Finest Hamburg Ground, Best Finish and Highest Quality Throughout. This Insures a Razor Unsurpassed for both Barbers and Private use.

FULLY GUARANTEED.

End View showing Concaved Shape Cutting Edge and Extra Stiff Reinforced Back



*DIAMOND EDGE

Cut shows Non-Rusting Metal Reinforcing Washers on each side of Tang next to Handle. Holds the Blade tone so that in closing the edge of Blade will never "Cross Over" and strike side of Handle

RAZOR

NO. DE17300

This consists of the best points of the wedge shape of the old English razor with its stiff, rigid edge and the light weight and attractiveness of the more modern concaved razor.

. It is designed to meet the requirements of all who have difficulty in shaving with comfort owing to tender skin and a wiry beard.

This Razor is giving universal satisfaction to the user who has that tough beard and tender skin. It is made with a stiff edge, much desired in the old English razor, yet, has the light weight of the new concave razor. The edge is so constructed that it will not quiver or rattle under the most trying conditions, and has stood the test of of the most exacting.

Warrant

This razor is made with that exactness which can only be attained by workmen thoroughly trained in their Art. Extreme care is given to the forging, tempering and grinding of this razor, which is followed by the most rigid inspection. We warrant them to give perfect satisfaction if given reasonable care. There is absolutely no excuse for a soiled or rusty razor.

A dealer should not be asked to exchange such a razor.

Blade $^{6}/_{8}$ inch Only, Crocus Polished Back and Grooves, the Concaved Half of Blade Glazed with etched *DIAMOND EDGE* Trade Mark; Diamond Edge Etched in Gold in Groove; Plain, Smooth Tang; Black Rubber Handle.

SPECIAL OFFER

In order to introduce this New Razor we are offering with every Dozen Razors, one Dozen of our Norleigh Diamond Shaving Stick Soap. The Soap is given absolutely free with every Dozen Razors purchased. This Soap is receiving just merited recognition as the Best Article on the Market for the purpose. Further Description below.

*NORLEIGH DIAMOND

SHAVING STICK—(DEMULCENT)

No. ND300

Compounded by Expert Soap and Perfume Makers, of Purest Materials, Chemically Correct and Under Most Sanitary Conditions. It Produces a Heavy, Thick, Close and Abundant Lather, which is Lasting, Retains the Moisture and Stays Thick and Creamy on the Face. Softens the Beard and Skin, and will Positively Not Produce a Burning Sensation on the Face. Highly Perfumed.

Each Stick Put up in a Finely Embossed Nickel Plated Metal Box, 3½x1½ inches, with Close Fitting Telescope Cover; Each of these Metal Boxes Packed in a Carton; Six Cartons in a Handsome Display Rack for the Show Case.

No. DE17300—One Dozen Razors and One Dozen Soap as Described Above $84.00

Packed Complete in a Box; Weight 6 lbs.

RAZORS

★DIAMOND EDGE

The DIAMOND EDGE Razors are Hand Forged from the Best English Crucible Cast Steel, Finest Hamburg Ground, Best Finish and Highest Quality Throughout. This Insures a Razor Unsurpassed for Both Barbers and Private Use. Fully Guaranteed.

No. 14— ★DIAMOND EDGE

Finest Quality Pieced **Abalona Pearl Handle;** Full Concave Ground Blade, Half Crocus Polished with the Words DIAMOND EDGE Etched in Gold on a Gold Panel, Plain File Tang.

Width, Inch	5/8
Blade, Point	Square
Weight per Dozen, Lbs.	2
Per Dozen	**$72 00**

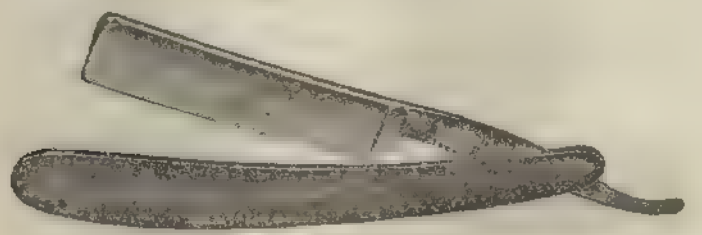
Half Dozen in a Box

No. 16— ★DIAMOND EDGE

Highest Quality Mottled Red Rubber Handle; Full Hollow Ground Blade, Highly Glazed; the Words DIAMOND EDGE Gold Etched on Blade; Plain File Tang.

Width, Inch	5/8
Blade, Point	Square
Weight per Dozen, Lbs.	2
Per Dozen	**$34.00**

Half Dozen in a Box

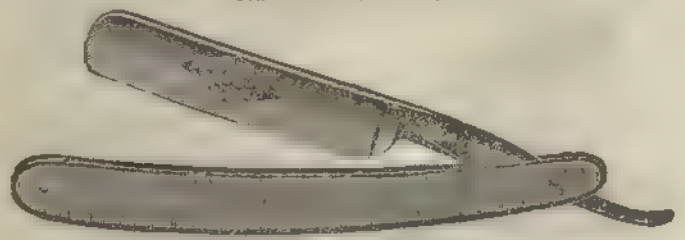


No. 18— ★DIAMOND EDGE

Highest Quality Heavy Black Rubber Handle; Extra Full Crocused Polished Blade with Rounded Quill Back; the Words DIAMOND EDGE Etched on Gold Band on Blade; Plain File Tang.

Width, Inch	5/8	5/8
Blade, Point	Square	Round
Weight per Dozen, Lbs.	2	2
Per Dozen	**$36.00**	**36.00**

Half Dozen in a Box



No. 24— ★DIAMOND EDGE

Extra Quality Pearl Color Porcelain Handle; Full Concaved Half Crocus Polished Blade with Rounded Back, Concaved Ground; DIAMOND EDGE Trade Mark Stenciled on Blade; Plain File Tang.

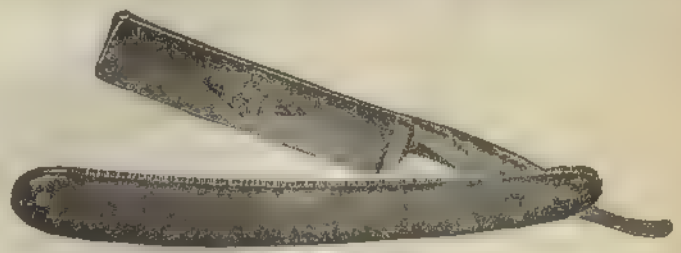
Width Blade, Inch	5/8
Blade, Point	Round
Weight per Dozen, Lbs.	2
Per Dozen	**$27.00**

Half Dozen in a Box

RAZORS

★DIAMOND EDGE

The DIAMOND EDGE Razors are Hand Forged from the Best English Crucible Cast Steel, Finest Hamburg Ground, Best Finish and Highest Quality Throughout. This Insures a Razor Unsurpassed for Both Barbers and Private Use. Fully Guaranteed.



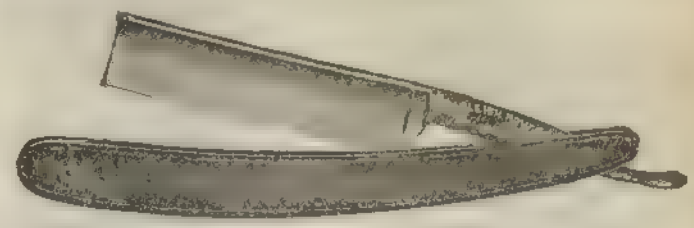
★DIAMOND EDGE

No. 23

Tortoise Shell Oval Celluloid Handle; Concave Ground Half Crocus Polished Blade; DIAMOND EDGE Trade Mark Stenciled on Blade; Plain File Tang.

Width, Inch	5/8
Blade, Point	Square
Weight per Dozen, Lbs.	2
Per Dozen	**$27 00**

Half Dozen in a Box

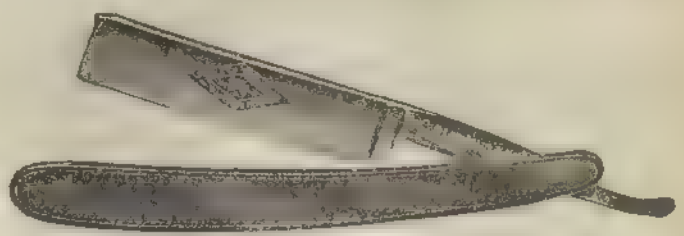


No. 08—SHAPLEIGH HARDWARE CO.

Black Rubber Flat Handle; Concaved Ground Blade, Glazed; Plain File Tang.

Width, Inch	5/8
Blade, Point	Square
Weight per Dozen, Lbs.	2
Per Dozen	**$17.00**

Half Dozen in a Box



★DIAMOND EDGE

No. 25

Bright Red Colored Pyralin Handle; Concaved Half Crocus Polished Blade; DIAMOND EDGE Trade Mark Stenciled on Blade; Plain File Tang.

Width, Inch	5/8
Blade Point	Square
Weight per Dozen, Lbs.	2
Per Dozen	**$27.00**

Half Dozen in a Box

★DIAMOND EDGE

No. 26

Light Ambered Pyralin Handle; Otherwise same as No. 25.

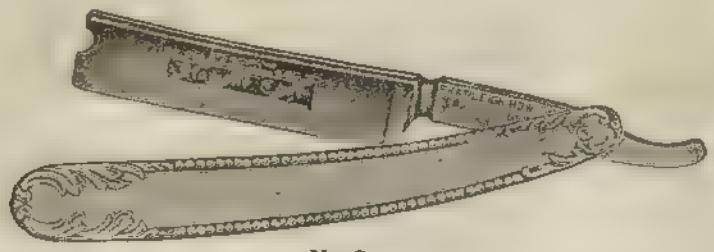
Width, Inch	5/8
Blade, Point	Square
Weight per Dozen, lbs.	2
Per Dozen	**$27 00**

Half Dozen in a Box

RAZORS

*DIAMOND EDGE

Hand Forged from the Best English Crucible Cast Steel, Finest Hamburg Ground, Best Finish and Highest Quality Throughout. This Insures a Razor Unsurpassed for Both Barbers and Private Use. Fully Guaranteed.



No. 3

Fancy Beaded **Ivory Celluloid Oval Handle**; Full Concaved Ground Blade, Crocus Polished and Gold Etched; **Genuine Ivory Scale Tang.**

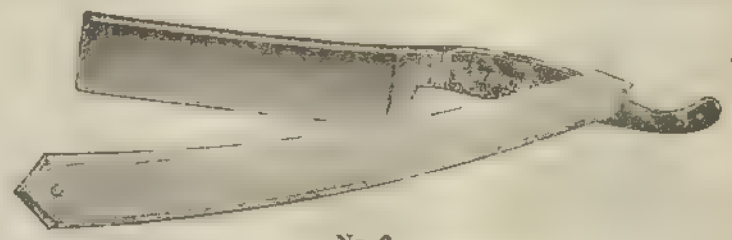
Width, Inches	5/8
Blade, Point	Hollow
Per Dozen	$46 00

No. 2

Genuine Ivory Flat Handle; Full Concaved Ground Blade, Glazed; Plain File Tang.

Width, Inches	5/8	5/8
Blade, Point	Square	Round
Per Dozen	$48 00	48 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

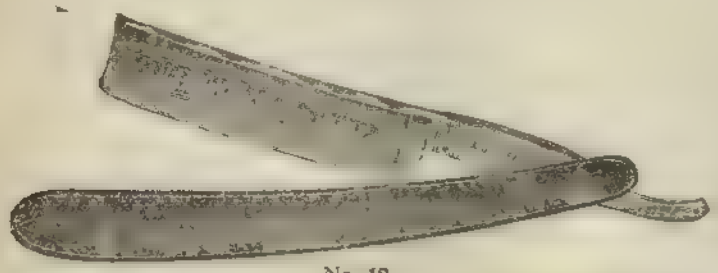


No. 6

Ivory Celluloid Flat Handle; Full Concaved Ground Blade, Crocus Polished; **Black Rubber Scale Tang.**

Width, Inches	5/8	5/8
Blade, Point	Square	Round
Per Dozen	$40 00	40 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

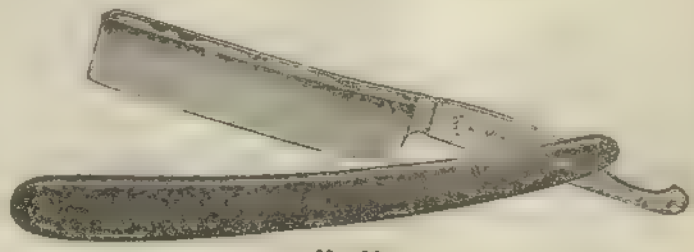


No. 12

Tortoise Shell Flat Celluloid Handle; Full Concaved Ground Blade, Crocus Polished and Gold Etched; Fine Quality Heavy **Pearl Scale Tang.**

Width, Inches	5/8
Blade, Point	Square
Per Dozen	$52.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. 93

Black Rubber Oval Handle; Full Concaved Ground Blade, Crocus Polished; Fine Quality Heavy **Pearl Scale Tang** with Solid Tip.

Width, Inches	5/8
Blade, Point	Square
Per Dozen	$53.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

No. 5

Black Rubber Flat Handle; Full Concaved Ground Blade, Crocus Polished, Fine Quality Heavy **Pearl Scale Tang.**

Width, Inches	5/8	5/8
Blade, Point	Square	Round
Per Dozen	$42 00	42 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

No. 8

Black Rubber Oval Embossed Handle; Full Concaved Ground Blade, Crocus Polished; Heavy **Black Rubber Scale Tang.**

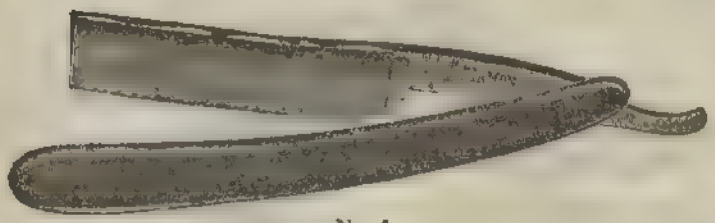
Width, Inches	5/8	5/8
Blade, Point	Square	Round
Per Dozen	$40.00	40.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

RAZORS

★DIAMOND EDGE

Hand Forged from the Best English Crucible Cast Steel; Finest Hamburg Ground, Best Finish and Highest Quality Throughout. This Insures a Razor Unsurpassed for Both Barbers and Private Use. Fully Guaranteed.



No. 4

Black Rubber Oval Handle; Full Concaved Ground Blade, Glazed; Plain File Tang.

Square Point

Width, Inches	5/8	1/2	5/8	3/4
Per Dozen	$25 00	25 00	26.00	26 00

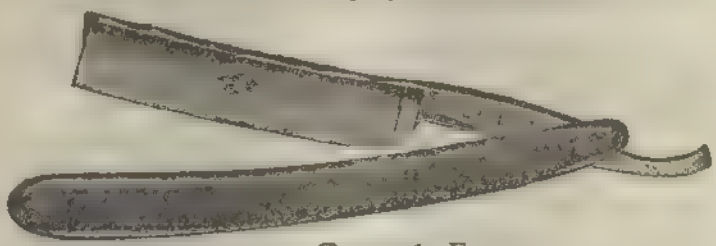
Round Point

Width, Inches	1/2	5/8
Per Dozen	$26.00	26 00

Hollow Point

Width, Inches	5/8
Per Dozen	$26.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. 9— ★DIAMOND EDGE

Black Rubber Oval Handle; Extra Full Hollow Ground Blade, Glazed and Etched; Plain File Tang.

Square Point

Width, Inches	5/8	1/2	5/8	3/4
Per Dozen	$32 00	32 00	32.00	32 00

Round Point

Width, Inches	1/2	5/8
Per Dozen	$32.00	32 00

Hollow Point

Width, Inches	5/8
Per Dozen	$32 00

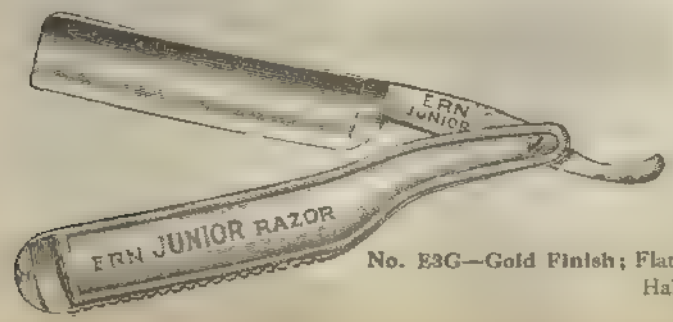
Half Dozen in a Box; Weight per Dozen about 2 lbs.

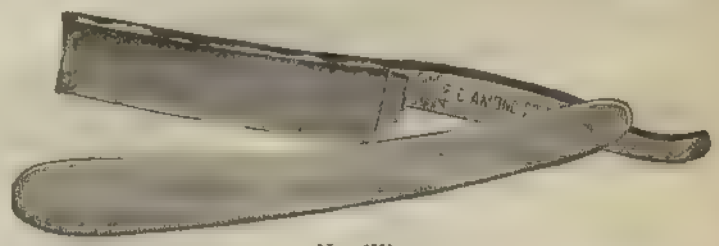
★DIAMOND KING

Black Rubber Flat Handle; Full Concaved Ground Blade, Crocus Polished and Etched; Fancy Back; Scroll, File Back Tang. Per Dozen

No. 7—Square Point; Width 5/8 inch $42.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.





No. 4W

White Bone Flat Handle; Full Concaved Ground Blade, Glazed Plain File Tang.

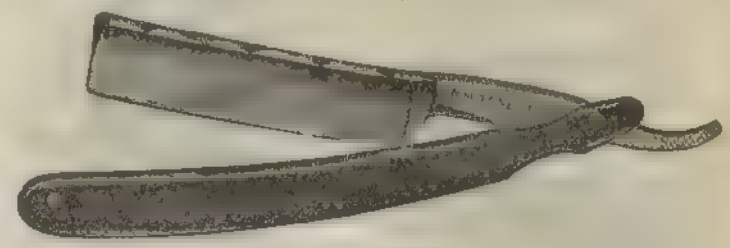
Square Point

Width, Inches	5/8
Per Dozen	$33 00

Round Point

Width, Inches	5/8
Per Dozen	$33 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. 777— ★MAGNETIC

Has Highly Magnetized Blade; Famous for Its Curative Qualities; **Black Rubber Oval Handle** with Patent Grip; Full Hollow Ground Blade, Glazed; Plain File Tang.

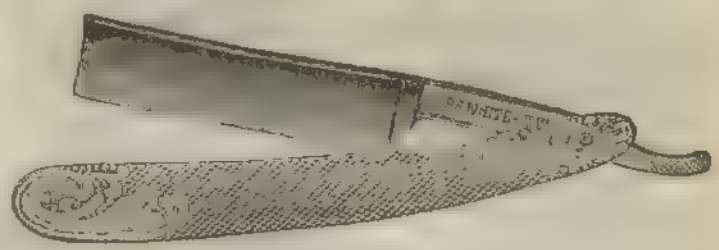
Square Point

Width, Inches	1/2	5/8
Per Dozen	$40 00	40.00

Round Point

Width, Inches	5/8
Per Dozen	$40.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



★WHITE HOUSE

Ivory Celluloid Fancy Oval Handle; Full Concaved Ground Blade, Crocus Polished; Plain File Tang.

Per Dozen

No. 98—Square Point; Width 5/8 inch $30.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

ERN JUNIOR

Made of the Best English Crucible Cast Steel, Full Hollow Ground; Honed and Sharpened ready for Use. Handles are made of One Piece of German Silver and put together so they will not Compress or Break in any way. Handle absolutely protects the Blade of the Razor against Breaking or Ruining of the Edge. Blades and Handles perfectly Balanced. Finished in Gold, Silver and Gun Metal.

Per Dozen

No. E3G—Gold Finish; Flat File Tang; Square Point; Width 5/8 inches $40.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

RAZORS

Hand Forged from the Best English Crucible Cast Steel, Finest Hollow Ground, Best Finish, Highest Quality. Fully Warranted

No. 200—★SHAPLEIGH BARBER

Black Rubber Flat Handle; Full Concaved Ground Blade, Glazed and Etched; Plain Smooth Tang.

Square Point

Width, Inches	5/8	3/4	7/8	1
Per Dozen	$24 00	24 00	24 00	24 00

Round Point

Width, Inches	3/4	7/8
Per Dozen	$24.00	24 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

No. 11—★BLACK PRINCE

Fancy Black Rubber Flat Handle; Full Concaved Ground Blade, Glazed; Oval Smooth Tang.

Square Point

Width, Inches 1
Per Dozen $30 00

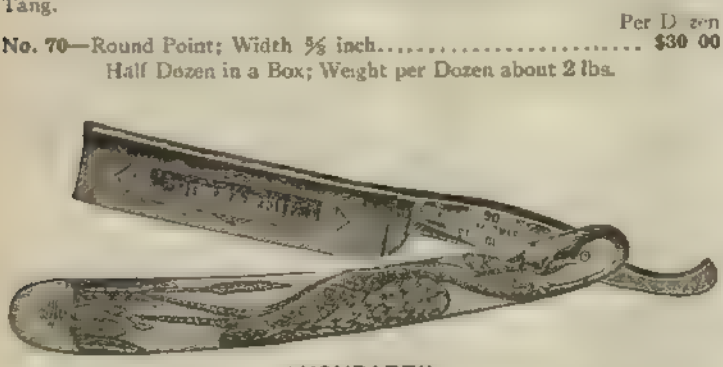
Half Dozen in a Box; Weight per Dozen about 2 lbs.

★BEAUTY

Ivory Celluloid Oval Handle; Peacock Design in Natural Colors; Concaved Ground Blade, Crocus Polished and Gold Etched; Plain File Tang.

Per Dozen
No. 70—Round Point; Width 5/8 inch $30 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



★NONPAREIL

Ivory Celluloid Oval Handle, Crane Design in Natural Colors; Concaved Ground Blade, Crocus Polished and Gold Etched; Plain File Tang.

Per Dozen
No. 90—Square Point; Width 5/8 inch $30 00

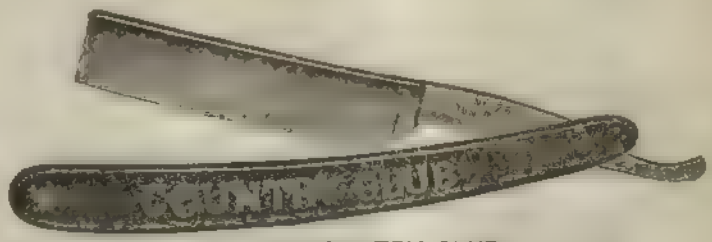
Half Dozen in a Box; Weight per Dozen about 2 lbs.

★GYPSY

Black and Red Mottled Rubber Oval Handle; Full Concaved Ground Blade, Crocus Polished; Plain File Tang.

Per Dozen
No. 99—Square Point; Width 5/8 inches $27.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. 76—★COUNTRY CLUB

Black Rubber Flat Handle; Full Concaved Ground Blade, Glazed and Gold Etched; Plain File Tang.

Square Point

Width, Inches 5/8
Per Dozen $24 00

Round Point

Width, Inches 5/8
Per Dozen $24 00

Hollow Point

Width, Inches 7/8
Per Dozen $24.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

★ART

Ivory Celluloid Oval Handle; Art Design in Exquisite Colors Concaved Ground Blade, Crocus Polished and Gold Etched; Plain File Tang.

Per Dozen
No. 80—Square Point; Width 5/8 inch $30 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

No. 20—★BRIDGE CUTLERY CO.

Black Rubber Flat Handle; Concaved Ground Blade, Crocus and Gold Etched; Plain File Tang.

Square Point

Width, Inches	1/2	5/8
Per Dozen	$24 00	24 00

Round Point

Width, Inches 5/8
Per Dozen $24 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

ELECTRIC PORTABLE LAMPS

Each

No. 182 Electric Portable Reading Lamp, 16 inch Round Shade; Overlaid Amber Art Glass; Leaf Design; Oxidized Brass Finish, 7¾ inch Round Base, 2 Lights with Pull Chain Sockets; Six feet Silk Cord and Plug; Height Over all 21¼ inches; Weight 13½ Lbs. **$27.00**

One in a Box

Each

No. 1010½—Electric Portable Reading Lamp, Cast Standard; Base and Shade in Latest Open Work Mission Design, 11 in. Square with Panels of Amber Art Glass and Ruby Decorations in Small Square, Heavily Embossed Base, Square Standard; Six Feet New Code Lamp Cord, Standard Pull, Plug and Snap Socket, Single Light No Bulb, Height 20 In., Finish, Verde Green; Weight 5 lbs. **$13 50**

One in a Box

Each

No. 196—Electric Portable Reading Lamp; Octagon Shade 15½ inches in Diameter with Panels of Green Art Glass; Mahogany Finish Holder and Base, One Light with Pull Chain Socket; Complete with Six Feet Silk Cord and Plug; Height Over all 19 inches; Weight 14 Lbs. **$15 50**

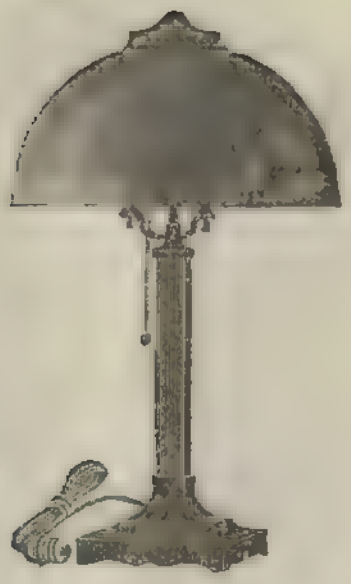
One in a Box

Each

No. 620 -Electric Portable Reading Lamp, Round Shade, 16 inches in Diameter, Base Made of Solid Copper in Vase Effect, Cluster and Shade finished in Dull Cyprian, wired with Two Pull Chain Sockets, 6 Feet Silk Cord with Plug, Height Over All 29 inches; Weight 10½ lbs. **$30 00**

One in a Box

ELECTRIC PORTABLE LAMPS



Each

No. 1[illegible]—Electric Portable Reading Lamp; 12 inch Round Dark Green Shade; Base, Stem and Cluster finished in Antique Brass; Two Lights with Pull Chain Sockets; Complete with Six Feet of Silk Cord and Plug; Height Over All 19½ inches..... **$13.50**

One in a Box

Each

No. 175—Electric Portable Reading Lamp; Overlaid Art Glass Shade, 19 inches in Diameter; Cluster Sockets and Tube Old Brass Finish; Two Lights with Pull Chain Sockets; Complete with Six Feet of Cord and Plug; Height Over All 24 inches; Weight 13 lbs..... **$30 00**

One in a Box

Each

No. 1088[illegible] Electric Portable Reading Lamp; Octagon Amber Shade 13 inches in Diameter; Base, Stem and Cluster in Verde Antique Green Finish; Two Lights with Pull Chain; Complete with 6 Feet of Silk Cord and Plug; Height Over All 21 inches; Weight 9 lbs..... **$17.50**

One in a Box

Each

No. 1088[illegible] Electric Portable Reading Lamp; Decorated Green and Orange Glass Dome; Single Socket for One Light; Complete with Silk Cord and Plug; Height Over All 14 inches; Weight 5 lbs..... **$14 50**

One in a Box

ELECTRIC PORTABLE LAMPS

Each

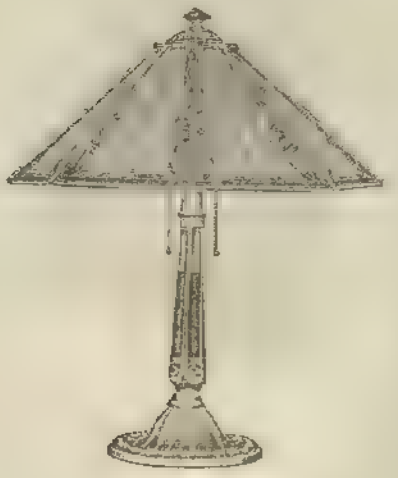
No. 60E—Electric Portable Reading Lamp, Amber Shade, 18½ inches in Diameter; Base, Stem and Cluster Finished in a Rich Byzantine Bronze; Complete with Three Pull Chain Sockets, Six Feet Silk Cord and Plug. Height Over All [illegible] inches, Weight 16 lbs. $39 00

One in a Box

Each

No. 335—Electric Portable Reading Lamp; Scenic Decorated Shade 19 inches in Diameter; Base, Stem and Cluster Finished in Roman Bronze. One Pull Chain Socket; Complete with Six Feet Silk Cord and Plug. Height Over All 17 inches, Weight 10 lbs. $14.00

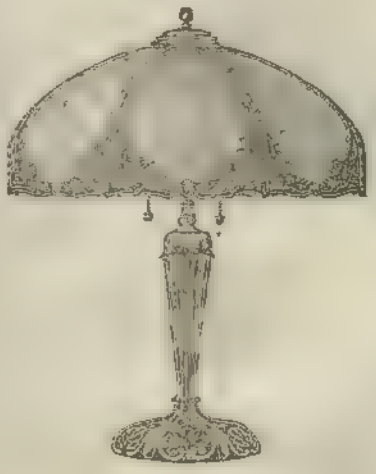
One in a Box



Each

No. 53E—Electric Portable Reading Lamp; Amber Glass Shade, 17 inches in Diameter; Base, Stem and Cluster Egyptian Bronze Finish; Complete with Two Pull Sockets; Six Feet Silk Cord and Plug; Height Over All [illegible] inches; Weight 15 lbs. $30 00

One in a Box



Each

No. 706½—Electric Portable Reading Lamps; Amber Glass Shade, 19 inches in Diameter; Base, Stem and Cluster Flemish Brass Finish; Two Pull Chain Sockets; Complete with Six Feet Silk Cord and Plug; Height Over All 26 inches; Weight 17 lbs. $31 00

One in a Box

ELECTRIC PORTABLE LAMPS

NOTE—Bulbs Not Included with Any Lamps Shown on This Page

NOTE—Bulbs Not Included with Any Lamps Shown on This Page

Each

No. 321 Electric Portable Reading Lamp; Sectional Decorated Shade 12 inches in Diameter, and Standard Constructed in Pompeian Green; Two Pull Chain Sockets. Complete with Six Feet Silk Covered Plug; Height Over All 22 inches, Weight 2 lbs..... **$20 00**

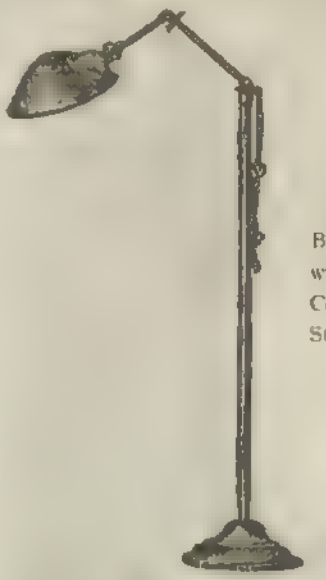
One in a Box

Brushed Brass Adjustable to Any Position; Shade finished on Inside with Aluminum; Wired with Key Socket and Six Feet of Silk Cord and Plug.

Each

No. 1876—Height Extended 27 Inches; Diameter of Base 6 Inches; Weight 5¼ lbs..... **$6.00**

One in a Box

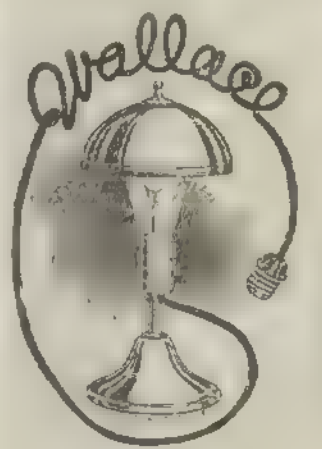


Brass Standard and Shade; Brushed Brass Finish; Shade Finished on Inside with Aluminum Bronze; Wired with Silk Cord; Complete with Plug and Socket; Standard Adjustable from 30 in. to 5 ft.

Each

No. N2033—Weight 6 lbs..... **$10 00**

One in a Box



Showing Lamp Collapsed

The Wallace Portable Electric Porcelain is the Only Lamp which Can be Collapsed and Carried in a Grip; Fitted with Screw Attachment on Base which Enables Attaching to Bed, Desk, Bureau or Chair. Also Has Rubber Suction Cup for Sticking Lamp to Mirror or Window Pane; Furnished in Brushed Brass Finish.

Each

No. W—Diameter of Base 4½ inches; Extreme Height 9 inches; Weight 1 lb..... **$5 00**

One in a Box

Per Dozen..... **$4 00**

TIP TOP

Raised Brass Base, Socket or Shade; Can be Used Anywhere.

No. 1 Shows Shade Raised for Use as a Reflector.

No. 2 Shade Adjustable to Reduce Light when Desired.

No. 3—Adjustable Joint Permits Lamp to Be Raised or Lowered, Making it Very Convenient for Use on Desk, Table, Piano, Etc.

No. 4—Opening in Base Makes Possible the Use of the Lamp for Ordinary Lighting Purposes.

No. 5—Lamp May be Also Adjusted for Indirect Lighting; this Makes it Especially Good for Sick Room or All Night Use where a Subdued Light Is Desired. Lamp Complete with 8 Feet of Cord Plug and Socket.

Each

No. 040—Diameter of Base 5 inches; Height 3½ inches; Length of Socket and Shade 8 inches; Weight Each 1 lb..... **$3.70**

One in a Box

ELECTRIC FIXTURES
BRACKET LIGHTS

See Pages 3086 to [illegible] Extra Glassware for these Fixtures.

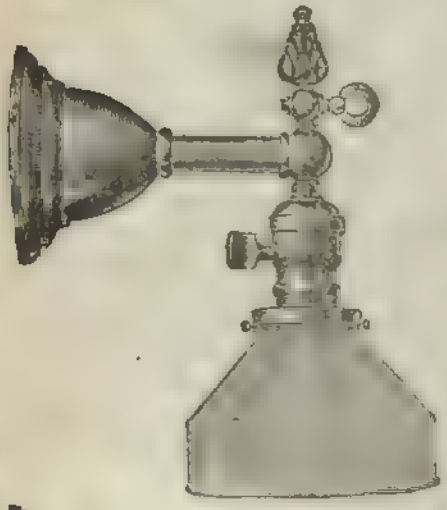
FOR OUTDOOR USE

Made of Copper; Copper Back Plate 4½ inches Square; Copper Lantern with Amber Art Glass 4x7½ inches [illegible] in Verde, Antique Green; Wired with Keyless Socket.

Each

No. B1C—One Light, Weight 2½ lbs. **$12.00**

Loose



COMBINATION GAS AND ELECTRIC

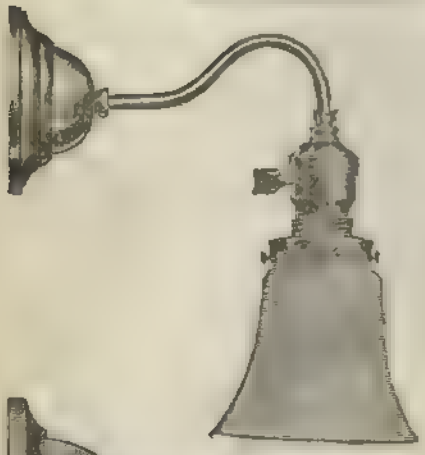
One Gas and One Electric Bracket, Brushed Brass; Extends [illegible] inches; Wired with New Wrinkle Key Socket, 2¼ inch Holder and Crow Foot; Insulating Joints; Complete with No. [illegible] Crystal Stripe Glass Shade.

Each

No. B2150 Weight 2 lbs. **$4 50**

No. XB2150—Without Glass Shade..... **4.30**

Loose



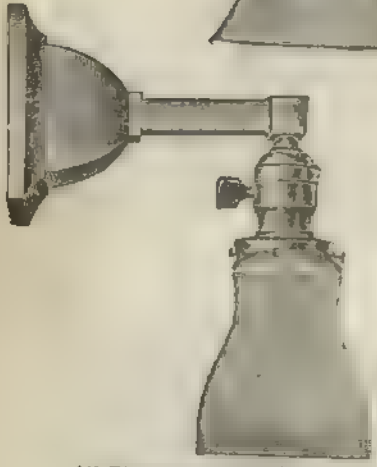
One Electric Light; **Brushed Brass**; Extends 6 inches; Wired with New Wrinkle Key Socket, 2¼ inch Holder and Crow Foot, no Insulating Joints; Complete with No. 1CRI Crystal Roughed Outside Glass Shade.

Each

No. B81CRI—Weight 1½ lbs..... **$3 00**

No. XB81CRI Without Glass Shade . . **2 80**

Loose



One Electric Light, **Brushed Brass**, Extends 7½ inches; Wired with New Wrinkle Key Socket, 2¼ inch Holder and Crow Foot, no Insulating Joints; Complete with No. 505CS Crystal Stripe Glass Shade.

Each

No. B4485—Weight 2½ lbs. **$4 50**

No. XB4485 Without Glass Shade . . **4 00**

Loose

ELECTRIC FIXTURES
BRACKET LIGHTS

See [illegible] Extra Glassware for these Fixtures.

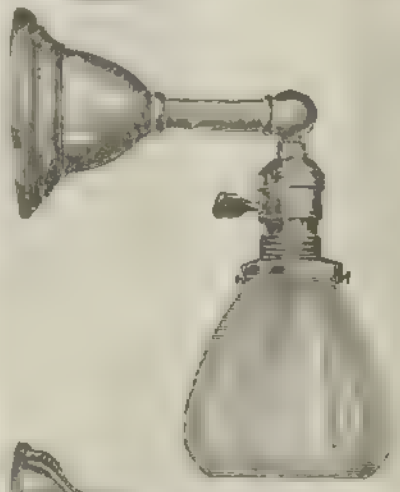
Extends 9 inches; Black Finished, Wired with Keyless Socket; Holder 4 inches. 8x4 CRI Ball No. 8CRI

Each

No. B58CRI One Light Weight 5 lbs..... **$6 50**

No. XB58CRI—Without Glass Ball **6 00**

Loose



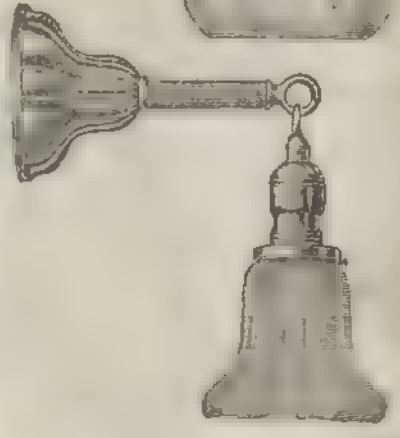
One Electric Light, **Brushed Brass**; Extends 6 inches, Wired with New Wrinkle Key Socket, 2¼ inch Holder and Crow Foot, no Insulating Joints; Complete with No. 275CS Crystal Stripe Glass Shade.

Each

No. B6275—Weight 2 lbs **$3.50**

No. XB6275—Without Glass Shade. . . **3 30**

Loose



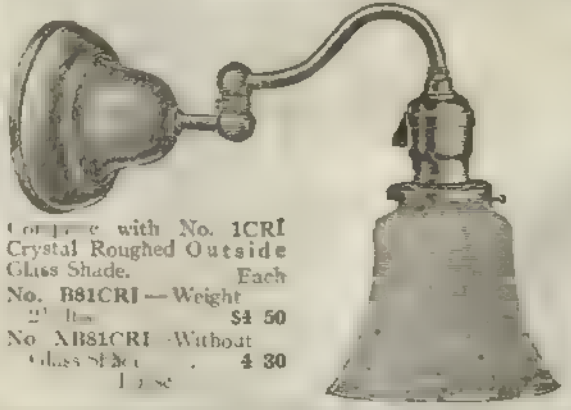
One Electric Light; **Brushed Brass**; Extends 6 inches; Wired with New Wrinkle Key Socket, 2¼ inch Holder and Crow Foot, no Insulating Joints; Complete with No. 505CRI Crystal Stripe Glass Shade.

Each

No. B7565—Weight 2 lbs. **$4.00**

No. XB7565—Without Glass Shade **3 80**

Loose



Complete with No. 1CRI Crystal Roughed Outside Glass Shade. Each

No. B81CRI—Weight 2½ lbs. **$4 50**

No XB81CRI Without Glass Shade . . **4 30**

Loose

One Electric Light; Swing Bracket; Brushed Brass Finish, Extends 18 inches; Wired with New Wrinkle Key Socket; 2¼ inch Holder and Crow Foot; No Insulating Joints;

All Fixtures Desired in Special Finish to Match Special Hardware are Furnished in Oxidized Copper, White Enamel, Verde Antique, Polished, Nickel or Bronze Burnished [illegible] . . . . . Extra

Extra Burnished Silver Plated . . . . . Extra

We Can Furnish Pull Sockets. . . . . **$0 70** Extra

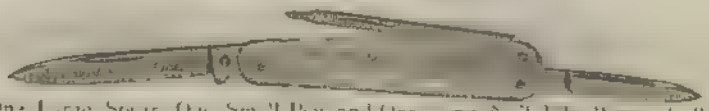
No Extra Charge for Either Key or Keyless Sockets.

POCKET KNIVES

EMPIRE

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

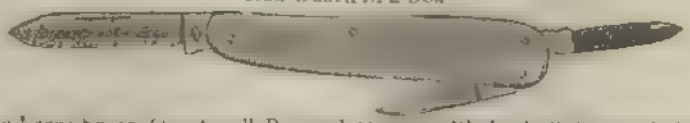
THREE BLADE PENS



Length 2¼ inches; Uncapped, One Large Spear, One Small Pen and One Long Nail File Blade; Full Crocus Polished, German Silver Lining; Weight per Dozen 7 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S339P Pearl Handle	$22 00	No. 3E339P—Pearl Handle	$28 00

Half Dozen in a Box



Length 2½ inches; Uncapped, One Large Spear, One Small Pen and One File Blade; Full Crocus Polished and Etched, German Silver Lining; Weight per Dozen 8 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S340P—Pearl Handle	$24 00	No. 3E340P—Pearl Handle	$30 00

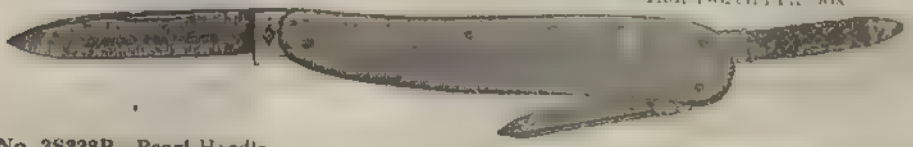
Half Dozen in a Box

★DIAMOND EDGE

Length 3 inches; Uncapped; One Large Spear, One Small Pen and One Long Nail File Blade; Full Crocus Polished and Etched; German Silver Lining; German Silver Shield; Weight per Dozen 7 ozs.

No. 3S65P—Pearl Handle ..... Per Dozen $48 00

Half Dozen in a Box

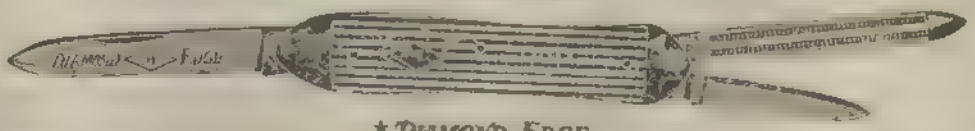


★DIAMOND EDGE

Length 3¼ inches; Uncapped; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; German Silver Lining; Weight per Dozen 14 ozs.

No. 3S338P Pearl Handle ..... Per Dozen $33 00

Half Dozen in a Box



★DIAMOND EDGE

Pyralin Handles; Length 3 inches; Fancy German Silver Bolsters; German Silver Lining; One Large Pen Blade, One Small Pen Blade and One French Nail File on Back; Half Polished and Etched Blades; Weight per Dozen 14 ozs.

	Per Dozen
No. 3S354YN—Black and White Striped Handle	$24 00
No. 3S354J —Golden Pearl Handle	24 00
No. 3S354TB—Turquois Blue Handle	24 00
No. 3S354CC —Brown and White Mottled Handle	24 00

Half Dozen in a Box

★DIAMOND EDGE

Length 3 inches, German Silver Bolsters, German Silver Nickel Lining, One Large Pen Blade, One Small Pen Blade and One Long Double Nail File; Half Polished and Etched Blades; Weight per Dozen 14 ozs.

	Per Dozen
No. 3S362J —Golden Pearl Pyralin Handle	$30 00
No. 3S362P —Mother of Pearl Handle	36 00

Half Dozen in a Box

★DIAMOND EDGE

Length 3¼ inches, German Silver Bolsters and Shield; Brass Lining, One Large Pen Blade, One Small Pen Blade and One Long, Stiff Nail File; Half Polished and Etched Blades; Weight per Dozen 15 ozs.

No. 3S375YN—Black and White Striped Pyralin Handle ..... Per Dozen $21 00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

EMPIRE

THREE BLADE PENS

***DIAMOND EDGE**

Length 2¼ inches, German Silver Bolsters, One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining, Weight per Dozen 11 ozs.

	Per Dozen
No. 3S287P—Pearl Handle	**$16 00**

Half Dozen in a Box

Length 3 inches; German Silver Bolsters; One Large Spear, One Small Pen and One File Blade, Half Crocus Polished and Etched; Brass Lining German Silver Bolster; Weight per Dozen 14 ozs.

***DIAMOND EDGE**	Per Dozen	***EMPIRE**	Per Dozen
No. 3S258ST—Patent Stag Handle	**$18 00**	**No. 3E258ST Patent Stag Handle**	**$18 00**
No. 3S258P —Pearl Handle	**27 00**	**No. 3E258P Pearl Handle**	**27.00**

Half Dozen in a Box

Length 3 inches, German Silver Bolsters, One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched, Brass Lining; German Silver Shield, Weight per Dozen 14 ozs.

***DIAMOND EDGE**	Per Dozen	***EMPIRE**	Per Dozen
No. 3S81ST—Patent Stag Handle	**$18 00**	**No. 3E81ST—Patent Stag Handle**	**$18.00**
No. 3S81P —Pearl Handle	**27 00**	**No. 3E81P — Pearl Handle**	**27 00**

Half Dozen in a Box

Length 3 inches, German Silver Bolsters, One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 15 ozs.

	***EMPIRE**	Per Dozen
No. 3E259GST—Genuine Stag Handle		**$21 00**

Half Dozen in a Box

Length 3 inches; Polished Steel Rat Tail Bolsters; One Large Wharncliffe and Two Small Pen Blades; Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 15 ozs.

***DIAMOND EDGE**	Per Dozen	***EMPIRE**	Per Dozen
No. 3S242ST—Patent Stag Handle	**$19 20**		
No. 3S242P —Pearl Handle	**30 00**	**No. 3E242P Pearl Handle**	**$30 00**

Half Dozen in a Box

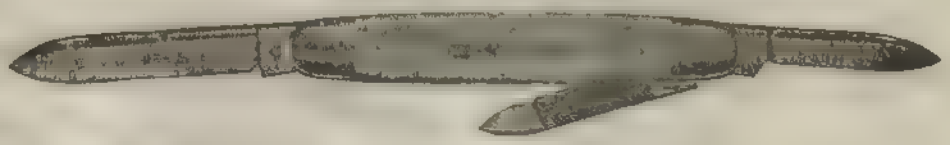
Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED

EMPIRE

THREE BLADE PENS



Length 3¼ inches German Silver Bolsters; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 17 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S104ST Patent Stag Handle	$19 30	No. 3E104ST -Patent Stag Handle	$19 30
No. 3S104P -Pearl Handle	30 00	No. 3E104P -Pearl Handle	30.00

Half Dozen in a Box

Length 3¼ inches; German Silver Bolsters; One Large Spear and Two Small Pen Blades, Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 20 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S220ST—Patent Stag Handle	$19.20	No. 3E220ST—Patent Stag Handle	$19.20

Half Dozen in a Box

Length 3½ inches, German Silver Capped; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; German Silver Lining; Hand Milled; German Silver Shield; Weight per Dozen 19 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S105ST -Patent Stag Handle	$25.00	No. 3E105ST -Patent Stag Handle	$25 00
No. 3S105P -Pearl Handle	42 00	No. 3E105P -Pearl Handle	42 00

Half Dozen in a Box

★DIAMOND EDGE

Length 3¾ inches; German Silver Bolsters, One Large Wharncliffe and Two Small Pen Blades, Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 18 ozs.

	Per Dozen
No. 3S285ST Patent Stag Handle	$22 00

Half Dozen in a Box

Length 6⅛ inches German Silver Bolsters; One Large Wharncliffe and Two Small Pen Blades; Half Crocus Polished and Etched, Brass Lining German Silver Shield, Weight per Dozen 22 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S48GST—Genuine Stag Handle	$24 00	No. 3E48GST—Genuine Stag Handle	$24 00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

EMPIRE

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THREE BLADE PENS

***DIAMOND EDGE**

Length 3¼ inches; German Silver Bolster, One Large Spear, One Small Pen and One File Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 19 ozs.

Per Dozen

No. 3S298P—Pearl Handle **$21.00**

Half Dozen in a Box

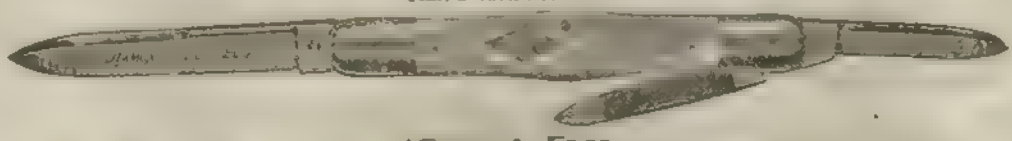
***DIAMOND EDGE**

Length 3⅛ inches; German Silver Bolster, One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 22 ozs.

Per Dozen

No. 3S341P—Pearl Handle **$36.00**

Half Dozen in a Box



***DIAMOND EDGE**

Length 3½ inches; German Silver Bolsters, One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 18 ozs.

	Per Dozen		Per Dozen
No. 3S280ST—Patent Stag Handle	**$16 00**	**No. 3S280P—Pearl Handle**	**$24 00**

Half Dozen in a Box

Length 3½ inches; German Silver Bolsters; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 22 ozs.

***DIAMOND EDGE**	Per Dozen	***EMPIRE**	Per Dozen
No. 3S103ST—Patent Stag Handle	**$21 00**	**No. 3F103ST Patent Stag Handle**	**$21 00**
No. 3S103P Pearl Handle	**36 00**	**No. 3F103P Pearl Handle**	**36.00**

Half Dozen in a Box

Length 3⅝ inches; German Silver Bolster, One Large Clip, One Small Coping and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 22 ozs.

***DIAMOND EDGE**	Per Dozen	***EMPIRE**	Per Dozen
No. 3S308¼D —Smoked Pearl Finish, Celluloid Handle.	**$21 60**	**No. 3F308¼D - Smoked Pearl Finish, Celluloid Handle.**	**$21 60**
No. 3S308¼ST—Patent Stag Handle	**20 00**	**No. 3E308¼ST—Patent Stag Handle**	**20 00**
No. 3S308¼P —Pearl Handle	**34 00**	**No. 3F308¼P —Pearl Handle**	**34 00**
No. 3S308¼H —Cornelian Celluloid Handle	**21 60**	**No. 3F308¼H Cornelian Celluloid Handle**	**21 60**

Half Dozen in a Box

Length 3¼ inches; German Silver Bolsters; One Large Clip and Two Small Pen Blades; Half Crocus Polished and Etched, Brass Lining, German Silver Shield; Weight per Dozen 21 ozs.

***DIAMOND EDGE**	Per Dozen	***EMPIRE**	Per Dozen
No. 3S336¼ST—Patent Stag Handle	**$17 50**	**No. 3F336¼ST- Patent Stag Handle**	**$21 60**
No. 3S336¼P —Pearl Handle	**30 00**	**No. 3E336¼P —Pearl Handle**	**36 00**

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

EMPIRE

THREE BLADE PENS

Length 3¼ inches; German Silver Tipped; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; German Silver Lining, Hand Milled; German Silver Shield; Weight per Dozen 15 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S106GST Genuine Stag Handle	$27.00	No. 3E106GST Genuine Stag Handle	$27.00
No. 3S106P —Pearl Handle	40.00	No. 3E106P —Pearl Handle	40.00

Half Dozen in a Box

Length 3½ inches; Polished Steel Rat Tail Bolsters, One Large Wharncliffe and Two Small Pen Blades; Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 20 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S139GST Genuine Stag Handle	$21.60	No. 3E139GST—Genuine Stag Handle	$21.60
No. 3S139P —Pearl Handle	36.00	No. 3E139P —Pearl Handle	36.00

Half Dozen in a Box

Length 3¼ inches; German Silver Tipped, One Large Spear and Two Small Pen Blades; Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 20 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S208ST—Patent Stag Handle	$21.00		
No. 3S208P —Pearl Handle	42.00	No. 3E208P Pearl Handle	42.00

Half Dozen in a Box

Length 3⅜ inches; German Silver Tipped, One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 20 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S193ST Patent Stag Handle	$19.20	No. 3E193ST Patent Stag Handle	$19.20
No. 3S193P —Pearl Handle	33.00	No. 3E193P —Pearl Handle	33.00

Half Dozen in a Box

***DIAMOND EDGE**

Length 3½ inches; German Silver Bolsters; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 1½ lbs.

No. 3S201P —Pearl Handle — Per Dozen $27.00

Half Dozen in a Box

***DIAMOND EDGE**

Length 3⅝ inches; German Silver Bolsters; One Large Spear, One Small Coping and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1⅝ lbs.

No. 3S282ST—Patent Stag Handle — Per Dozen $16.00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

LAMPS

★HIGH ART ASSORTMENT—TWENTY-FOUR LAMPS

Twenty-Four Decorated Glass Lamps. All Are Fitted with No. 2 Celebrated Riverside Clinch-On Collars, for Use with No. 2 Burner and Chimney, But Are Sold Without Burners or Chimneys.

Three of Each are Decorated in Gold, Green and Red. Three of Each Size are Decorated in Pure Gold Bronze.

Our High Art Lamp is an American Reproduction or Fac-Simile of the "Genuine Imported Austrian Intaglio" Decorated Glass Ware, Which is Known All Over the World for its Great Beauty, Originality, etc.

Our High Art Lamp Must be Seen Before its Beauty Can be Fully Appreciated. We Have Never Seen Any Other so Beautiful at The Price, so Perfect in Design and Color Effects. It is Almost Impossible to Convey an Accurate Idea as to What It is by Description.

The Style and Process of Manufacture is Entirely Different from Any Other. The **Designs, Flowers, etc.**, are Pressed in the Bottom of Crystal Glass, and Then Decorated in Three Natural Colors, Tints, etc., and Then All Covered with a Background of Gold Bronze.

The Decorations Are Well Protected from Wear and Tear, as They Are Underneath the Surface

No. B Size—Height to Top of Collar, 10 Inches; for No. 2 Burner and Chimney.
No. C Sewing Size—Height to Top of Collar, 9 Inches; for No. 2 Burner and Chimney.
No. C Size—Height to Top of Collar, 10⅜ Inches; for No. 2 Burner and Chimney.
No. D Size—Height to Top of Collar, 11¼ Inches; for No. 2 Burner and Chimney.

Per Assortment

★**High Art Assortment**—Contains Twenty-four Lamps. Three of Each Size Decorated in Gold Bronze and Three of Each Size Decorated in Gold, with Green Foliage and Red Flowers; All Have No. 2 Riverside Clinch-On Collars for Use with No. 2 Burners; **Without Burners, Chimneys or Wicks**..... **$15.00**

Sold in Complete Assortments Only

One Assortment in a Barrel; Shipping Weight, 99 Pounds

No Additional Charge for Packing

SEWING LAMP

Per Dozen

No. 2580C—Plain Crystal Glass; 8⅛ inches High; No. 2 Collar. Capacity 8 ozs; Shrunk-on Collars; without Burner, Chimney or Wick; Weight per Dozen 5 lbs..... **$9.00**

Two and One Quarter Dozen in a Barrel

No Additional Charge for Packing

LAMPS

★MANY USE ASSORTMENT—FIFTEEN LAMPS

Fifteen Attractive Pure white Crystal Glass Lamps, Assorted; Three of Each Size Illustrated. Complete with Burners and Chimneys.

The Many Use Assortment is Assorted, Assembled and Packed at the Factory. This We Deem a Great Convenience to Our Customers, as it Furnishes a Very Desirable Assortment of Complete Lamps Thoroughly Well Packed by Expert Packers, the Lamps Reaching You in Better Condition Than if Opened and Repacked.

No. 8—16 Inches

All Numbers Are Fitted with Celebrated Riverside Clinch-on Collars Guaranteed Not to Come Off

No. A 17 Inches

Nos. S and A Have No. 1 Collars, and Are Furnished with No. 1 Sun Burners and Chimneys

No. B—18½ Inches

No. C—19 Inches

No. D—20 Inches

Nos. B, C and D Have No. 2 Collars, and Are Furnished with No. 2 Burners and Chimneys

Per Assortment

★**Many Use Assortment**—Contains Fifteen Lamps, Three of Each Size Illustrated Above, Complete with Burners and Chimneys..... $14.50

Sold in Complete Assortments Only

One Assortment in a Barrel. Shipping Weight, 75 Pounds

No Additional Charge for Packing

LAMPS

★CRYSTALITE ASSORTMENT—FIFTEEN LAMPS

Fifteen Clear Crystal Glass Lamps, Assorted; Three of Each Size Illustrated; Complete with Burners and Chimneys. Assorted Assembled and Packed at the Factory by Expert Packers.

No. 0—17 Inches

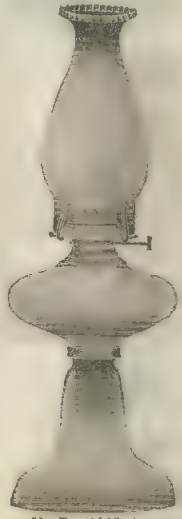
All Numbers are Fitted with Shrunk-On Collars

No. A—17¾ Inches

Nos. O and A Have No. 1 Collars and Are Furnished with No. 1 Sun Burners and Chimneys

No. B—18¼ Inches

No. C—18¾ Inches



No. D—19¾ Inches

Nos. B, C and D Have No. 2 Collars and Are Furnished with No. 2 Sun Burners and Chimneys Per Assortment

★Crystalite Assortment—Contains Fifteen Lamps, Three of Each Size Illustrated Above, Complete with Burners and Chimneys..... $14.00

Sold in Complete Assortments Only

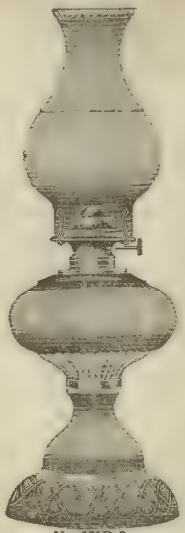
One Assortment in a Barrel. Shipping Weight, 75 Pounds. No Additional Charge for Packing

LAMPS

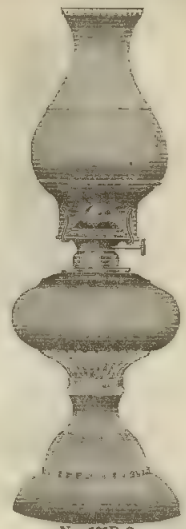
*SINGER SEWING LAMP ASSORTMENT—FIFTEEN LAMPS

Fifteen Lamps in The Very Latest Design, with Large Oil Receptacle and Base. Three Complete Lamps of Each Style as Illustrated.

No. 101D-1
Height 19 Inches



No. 101D-3
Height 19 Inches



No. 101D-2
Height 19 Inches

All of these Lamps Fitted with Shrunk-On Collars

PLAIN CRYSTAL GLASS

LATEST DESIGNS

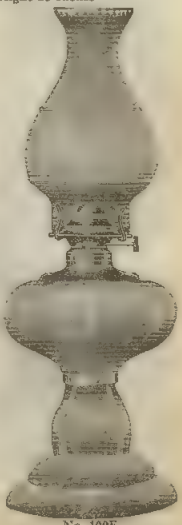
Per Assortment

*** Singer Sewing Lamp Assortment**—Contains 15 Lamps as Described Above; 3 of Each Style; Complete with No. 2 Sun Burners, No. 2 Sun Large Globes, Chimneys and without Wicks..... **$17.50**

Sold in Complete Assortments Only
One Assortment in a Barrel; Shipping Weight, 100 Pounds.

No Additional Charge for Packing.

No. 99E
Height 19½ Inches.

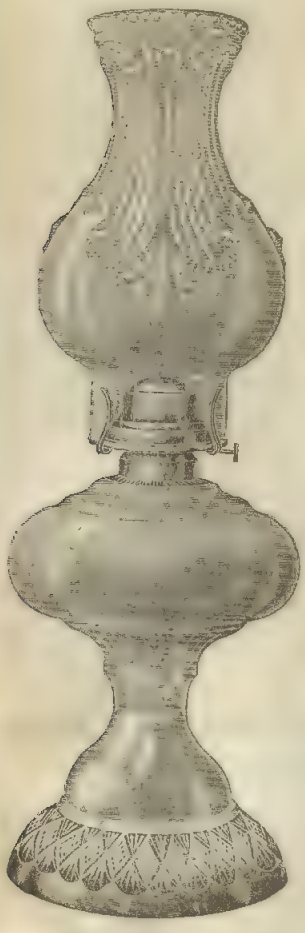


No. 100F
Height 19½ Inches.

LAMPS

★ORIENTAL ASSORTMENT—TWELVE LAMPS

Twelve Fancy Pressed Glass, Colored Base Lamps; Fancy Scroll Design Pressed Glass Chimneys; All are Fitted with No. 2 Shrunk On Collars, will not Loosen or Come off. Furnished Complete with No. 2 Sun Burners and No. 2 Chimneys, but without Wicks.



Assorted Color Bases.

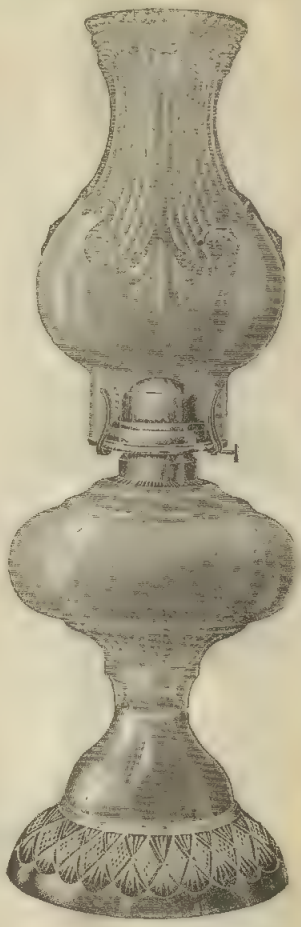
Elaborate Scroll Design Base, Fount and Chimney.

Extra Large Sewing Lamp.

Squat Base, bringing the Light Close to the Work when in Use on a Sewing Machine.

Six Lamps with Ruby Bases, Gold Decorated, Fancy Crystal Chimneys.

Six Lamps with Emerald Bases, Gold Decorated, Fancy Crystal Chimneys.



Per Assortment

★**Oriental Assortment**—Contains Twelve Lamps **Large Sewing Style**; Height to the Top of Collar 9⅛ Inches; Height to Top of Chimney 19 Inches; Capacity of Founts 2½ Pints, Furnished with Shrunk-On Collars No. 2; Complete with No. 2 Sun Burners and No. 2 Chimneys, but without Wicks **$16.00**

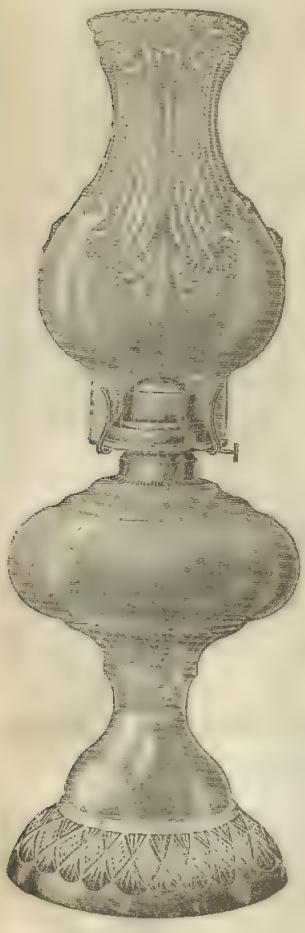
Sold in Complete Assortments Only.

One Assortment in a Barrel; Shipping Weight 90 lbs. No Additional Charge for Packing.

LAMPS

★ORIENTAL ASSORTMENT—TWELVE LAMPS

Twelve Fancy Pressed Glass, Colored Base Lamps; Fancy Scroll Design Pressed Glass Chimneys; All are Fitted with No. 2 Shrunk On Collars, will not Loosen or Come off. Furnished Complete with No. 2 Sun Burners and No. 2 Chimneys, but without Wicks.



Assorted Color Bases.

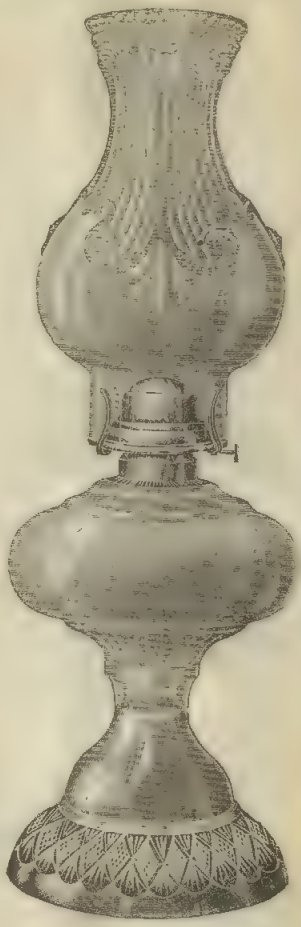
Elaborate Scroll Design Base, Fount and Chimney.

Extra Large Sewing Lamp.

Squat Base, bringing the Light Close to the Work when in Use on a Sewing Machine.

Six Lamps with Ruby Bases, Gold Decorated, Fancy Crystal Chimneys.

Six Lamps with Emerald Bases, Gold Decorated, Fancy Crystal Chimneys.



Per Assortment

★**Oriental Assortment**—Contains Twelve Lamps **Large Sewing Style**; Height to the Top of Collar 9⅛ Inches; Height to Top of Chimney 19 Inches; Capacity of Founts 2½ Pints, Furnished with Shrunk-On Collars No. 2; Complete with No. 2 Sun Burners and No. 2 Chimneys, but without Wicks **$16.00**

Sold in Complete Assortments Only.

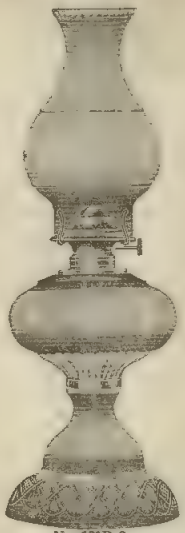
One Assortment in a Barrel; Shipping Weight 90 lbs. No Additional Charge for Packing.

LAMPS

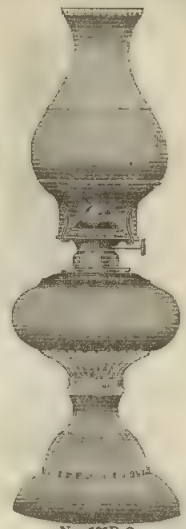
*SINGER SEWING LAMP ASSORTMENT—FIFTEEN LAMPS

Fifteen Lamps in The Very Latest Design, with Large Oil Receptacle and Base. Three Complete Lamps of Each Style as Illustrated.

No. 101D-1
Height 19 Inches



No. 101D-3
Height 19 Inches



No. 101D-2
Height 19 Inches

All of these Lamps Fitted with Shrunk-On Collars

PLAIN CRYSTAL GLASS

LATEST DESIGNS

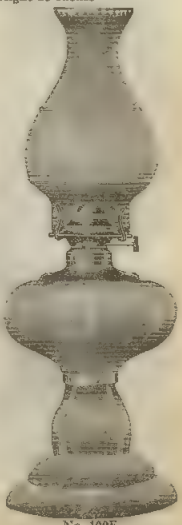
Per Assortment

*** Singer Sewing Lamp Assortment**—Contains 15 Lamps as Described Above; 3 of Each Style; Complete with No. 2 Sun Burners, No. 2 Sun Large Globes, Chimneys and without Wicks..... **$17.50**

Sold in Complete Assortments Only
One Assortment in a Barrel; Shipping Weight, 100 Pounds.

No Additional Charge for Packing.

No. 99E
Height 19½ Inches.



No. 100F
Height 19½ Inches.

LAMPS

★CRYSTALITE ASSORTMENT—FIFTEEN LAMPS

Fifteen Clear Crystal Glass Lamps, Assorted; Three of Each Size Illustrated; Complete with Burners and Chimneys. Assorted Assembled and Packed at the Factory by Expert Packers.

No. 0—17 Inches

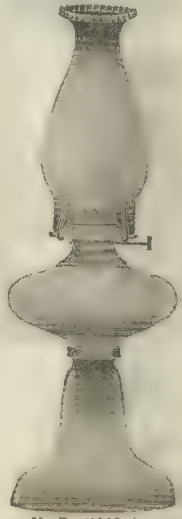
All Numbers are Fitted with Shrunk-On Collars

No. A—17¾ Inches

Nos. O and A Have No. 1 Collars and Are Furnished with No. 1 Sun Burners and Chimneys

No. B—18¼ Inches

No. C—18¾ Inches



No. D—19¾ Inches

Nos. B, C and D Have No. 2 Collars and Are Furnished with No. 2 Sun Burners and Chimneys Per Assortment

★Crystalite Assortment—Contains Fifteen Lamps, Three of Each Size Illustrated Above, Complete with Burners and Chimneys..... $14.00

Sold in Complete Assortments Only

One Assortment in a Barrel. Shipping Weight, 75 Pounds. No Additional Charge for Packing

LAMPS

★MANY USE ASSORTMENT—FIFTEEN LAMPS

Fifteen Attractive Pure white Crystal Glass Lamps, Assorted; Three of Each Size Illustrated. Complete with Burners and Chimneys.

The Many Use Assortment is Assorted, Assembled and Packed at the Factory. This We Deem a Great Convenience to Our Customers, as it Furnishes a Very Desirable Assortment of Complete Lamps Thoroughly Well Packed by Expert Packers, the Lamps Reaching You in Better Condition Than if Opened and Repacked.

No. 8—16 Inches

All Numbers Are Fitted with Celebrated Riverside Clinch-on Collars Guaranteed Not to Come Off

No. A 17 Inches

Nos. S and A Have No. 1 Collars, and Are Furnished with No. 1 Sun Burners and Chimneys

No. B—18½ Inches

No. C—19 Inches

No. D—20 Inches

Nos. B, C and D Have No. 2 Collars, and Are Furnished with No. 2 Burners and Chimneys

Per Assortment

★**Many Use Assortment**—Contains Fifteen Lamps, Three of Each Size Illustrated Above, Complete with Burners and Chimneys..... $14.50

Sold in Complete Assortments Only

One Assortment in a Barrel. Shipping Weight, 75 Pounds

No Additional Charge for Packing

LAMPS

★HIGH ART ASSORTMENT—TWENTY-FOUR LAMPS

Twenty-Four Decorated Glass Lamps. All Are Fitted with No. 2 Celebrated Riverside Clinch-On Collars, for Use with No. 2 Burner and Chimney, But Are Sold Without Burners or Chimneys.

Three of Each are Decorated in Gold, Green and Red. Three of Each Size are Decorated in Pure Gold Bronze.

Our High Art Lamp is an American Reproduction or Fac-Simile of the "Genuine Imported Austrian Intaglio" Decorated Glass Ware, Which is Known All Over the World for its Great Beauty, Originality, etc.

Our High Art Lamp Must be Seen Before its Beauty Can be Fully Appreciated. We Have Never Seen Any Other so Beautiful at The Price, so Perfect in Design and Color Effects. It is Almost Impossible to Convey an Accurate Idea as to What It is by Description.

The Style and Process of Manufacture is Entirely Different from Any Other. The **Designs, Flowers, etc.**, are Pressed in the Bottom of Crystal Glass, and Then Decorated in Three Natural Colors, Tints, etc., and Then All Covered with a Background of Gold Bronze.

The Decorations Are Well Protected from Wear and Tear, as They Are Underneath the Surface

No. B Size—Height to Top of Collar, 10 Inches; for No. 2 Burner and Chimney.
No. C Sewing Size—Height to Top of Collar, 9 Inches; for No. 2 Burner and Chimney.
No. C Size—Height to Top of Collar, 10⅜ Inches; for No. 2 Burner and Chimney.
No. D Size—Height to Top of Collar, 11¼ Inches; for No. 2 Burner and Chimney.

Per Assortment

★**High Art Assortment**—Contains Twenty-four Lamps. Three of Each Size Decorated in Gold Bronze and Three of Each Size Decorated in Gold, with Green Foliage and Red Flowers; All Have No. 2 Riverside Clinch-On Collars for Use with No. 2 Burners; **Without Burners, Chimneys or Wicks**..... **$15.00**

Sold in Complete Assortments Only

One Assortment in a Barrel; Shipping Weight, 99 Pounds

No Additional Charge for Packing

SEWING LAMP

Per Dozen

No. 2580C—Plain Crystal Glass; 8⅛ inches High; No. 2 Collar. Capacity 8 ozs; Shrunk-on Collars; without Burner, Chimney or Wick; Weight per Dozen 5 lbs..... **$9.00**

Two and One Quarter Dozen in a Barrel

No Additional Charge for Packing

SPARK PLUGS.

SPLITDORF.

TRACTOR, AUTO AND MOTORCYCLE.

No. SP2. No. 8¾. No. 8¾L. No. 8¾M. No. 8⅞. No. 8OM. No. 8B⅞. No. 8⅞L. No. 8¾.

The green jacket of this plug is merely a covering, an outer garment, a mark of identification. It adds finish, nothing more, yet it is of extreme importance to every user of spark plugs because it releases a genuine India ruby mica core and insures the user against the annoyances common to porcelain covered plugs. The green jacket may be cracked or broken or entirely missing without affecting the insulation of the mica core or the efficiency of the plug.

In the first place, imported India ruby mica is used exclusively as an insulator; not in the old washer type, but in a number of thin sheets laterally wrapped around the tapered central electrode or electrical conductor. India ruby mica is the highest grade electrical insulator known. With much less bulk it will carry many times the voltage of any other known insulator adaptable to spark plug use and with no possibility of any current used on the engine breaking it down. Owing to the fact that mica can expand and contract without damage, Splitdorf is able to use a very large central electrode which manufacturers of porcelain plugs are unable to do, as the larger the central electrode the greater the expansion and contraction and the greater the chance of their breaking the porcelain. This is the primary reason why in all porcelain plugs the central electrode will be found to be of very small diameter. The mica, after being wrapped around the spindle or central conductor, is forced into a metal bushing with such pressure as to make it practically a solid mass and there is not the slightest possibility of compression leakage through or past it. One gasket only is used outside of this bushing, allowing the bushing to be tightened up to a point where compression leakage is impossible. It is essential that a plug be easily taken apart for cleaning and, in the case of the "Green Jacket" plug, this operation is simple in the extreme. Any carbon deposits may be lightly scraped from the mica insulation, leaving it as clean and in as perfect condition as when the plug was new.

TRACTOR AND AUTO.

		Each	In lots of 100 Each
No. P179—	Ford Special	$1.30	1.20
No. P144—	½-inch Standard	1.30	1.20
No. P132—	½-inch Long	1.30	1.20
No. P141—	½-inch Metz	1.30	1.20
No. P148—	Metric Thread	1.30	1.20
No. P163—	⅞ Alam Standard	1.30	1.20
No. P165—	⅞ Alam Long	1.30	1.20
No. P784—	Splitdorf Buick	1.30	1.20
No. P178—	¾-inch Long	3.00	

MOTORCYCLE.

No. P126—	Splitdorf Motorcycle, metric thread	$1.30	1.20
No. P157—	Splitdorf Motorcycle, ⅞x18 A.L.A.M	1.30	1.20

100 Splitdorf Plugs, assorted numbers and sizes, take 100 lot price.

TRACTOR PLUG SIZES.

Tractor	Plug No.
Advance-Rumley Co.	
4 cyl small	P163
Large 2 cyl. large	P141
Albaugh-Dover Co	P164
Allis-Chalmers Co	P163
Altman & Taylor Mach	P141
The Avery Co	P141
Avery, B. F. & Sons, Inc	P144
Beaudin Mfg Co	P148
Bates Mach. Co	P163
Beaver Mfg. Co	P163
Beeman Grader Tr. Co	P144
Best Gas Tractor Co	P141
Bourkeye Mfg Co	P163
Bullock Tr Co	
Gile Motors, 2 cyl.	P141
Waukesha, 4 cyl	P163
Buda Co	P163
Bull Tr. Co	P144
J. I Case Thresh. Mach. Co.	
Opposed engines	P144
4 cyl. engine	P163
C. O. D Tractor Co	P144
Commonwealth Tr Mfg.	P141
Continental Motors Co	P163
Corn Belt Motors Co	P163
Corn Belt Tr. Co	P141
Dauch Mfg Co	P163
Dayton-Dick Co	P141
Denning Tractor Co	P163
H. C Doman Co	P132
Eagle Mfg Co	P132
Electric Wheel Co	P163
Emerson-Brantingham Co	P132
Enterprise Mach Co	P141

Tractor	Plug No.
Erd Motor Co	P165
The Farm Horse Tr Co	P132
Ford Tractor Co.	
Old	P141
New	P163
Henry Ford & Son	P179
Four-Drive Tr. Co	P164
Wm Galloway Co.	P164
Gile Tr & Engine Co	P141
Gray Motor Co	P132
Gray Tractor Mfg Co.	P163
Hart-Parr Co.	
Little Devil	P144
Oil King, 35 HP	P178
Old Reliable	P178
Hicks Tractor Co	P163
Holt Mfg Co	
Old	P144
New	P163
Huber Mfg. Co	P163
Imperial Mach Co	P163
International Harvester Co	P178
Interstate Eng. & Tr. Co	P163
Kansas City Hay Press Co	P163
Killen-Strait Mfg. Co.	P163
Kinkead Tr Co	P163
Kinnard-Haines Co	P141
LaCrosse (Happy Farmer) Tr. Co	P144
Lang Tr Co	P163
John Lagson Mfg. Co	P165
Lawter Tr. Co	P163
Lion Tractor Co	P144
Manitoba Bridge & Iron Works	P164
Mayer Bros. Co	P141

Tractor	Plug No.
McIntyre Mfg. Co	P164
Minneapolis Steel & Mach Co	P144
Moline Plow Co	P142
New Age Tr. Co	P141
Nicols & Shepard Co	P144
Nilson Farm Mach Co	P164
Parrott Tractor Co	P163
Phoenix Mfg Co	P163
Pioneer Tr Mfg Co	P141
Rock Island Plow Co	P164
Russell & Co	P141
Sand Springs Tr Co	P142
Sanson Iron Works.	
Old	P141
New	P164
Sawyer-Massey Co	
Old	P144
New	P163
Simplex Tractor Co	P144
Standard Tr. Co	P163
Standard-Detroit Tr Co	P163
Strite Tr. Co	P163
Sweeney Tr. Co	P163
Tom Thumb Tr. Co	P163
Turner Mfg. Co	P163
Vail-Rentschler Tr. Co	P144
Waite Tr. Co	P163
Wallis Tr. Co	P164
Ware Tractor Co	P132
Waterloo Gasoline Eng Co	P141
Western Tr Co	P141
Willmar Tr. Mfg Co	P144
Worthington Pump & Machy Corp	P13.
Yuba Constructor Co	P144

SPARK PLUGS.

CHAMPION.

FORD PLUG.

Adopted by the Ford Motor Co. as Standard Equipment on the Ford car since 1911.

No. A15—½ inch Ford Special.	Each
Lots of 1 to 99	$1.18
Lots of 100	1.08
Lots of 500	1.04
Lots of 1000	1.00

EXTRA PORCELAINS.

No. A105—Champion X Porcelains.	Each
Lots of 1 to 99	$0.66
Lots of 100	.60
Lots of 500	.54
Lots of 1000	.50

FORDSON TRACTOR PLUG.

Equipment on Fordson tractors. Will give satisfactory service on all tractors where a standard ½ inch plug is used.

No. A14—½ inch Fordson tractor plug.	Each
Lots of 1 to 99	$1.24
Lots of 100	1.20
Lots of 500	1.14
Lots of 1000	1.10

OVERLAND PLUG.

Specially built for use in the Overland car and adopted as factory equipment.

No. A140—½ inch Overland special.	Each
Lots of 1 to 99	$1.24
Lots of 100	1.20
Lots of 500	1.14
Lots of 1000	1.10

MAXWELL PLUG.

The Maxwell factory equipment plug.

No. A44—⅞ inch Maxwell plug.	Each
Lots of 1 to 99	$1.24
Lots of 100	1.20
Lots of 500	1.14
Lots of 1000	1.10

BUICK PLUG.

Specially made for the Buick car. Has long shell, conical porcelain Buick terminal.

No. A53—⅞x18 inches long; for Buick special.	Each
Lots of 1 to 99	$1.24
Lots of 100	1.20
Lots of 500	1.14
Lots of 1000	1.10

FOR REO CARS.

Recommended for the Reo car and other automobiles and engines requiring a long type of plug.

No. A23—Long, ½ inch.	Each
Lots of 1 to 99	$1.24
Lots of 100	1.20
Lots of 500	1.14
Lots of 1000	1.10

FOR DODGE CARS.

⅞ inch, recommended for use in Apperson, Briscoe, Cole, Crow Elk-hart, Dodge, Franklin, Jackson, King, Marmon, Monroe, Stutz.

No. J43—⅞—18.	Each
Lots of 1 to 99	$1.24
Lots of 100	1.20
Lots of 500	1.14
Lots of 1000	1.10

FOR OAKLAND CARS.

Has long shell, conical porcelain. Recommended for use in Oakland, Oldsmobile, Chevrolet and Nash cars.

No. AA53—Long, ⅞—18.	Each
Lots of 1 to 99	$1.24
Lots of 100	1.20
Lots of 500	1.14
Lots of 1000	1.10

"AERO" TRUCK.

Specially recommended for all truck, tractor and marine engines using a ⅞ inch thread.

No. JAS43—⅞—18.	Each
Lots of 1 to 99	$1.24
Lots of 100	1.20
Lots of 500	1.14
Lots of 1000	1.10

AEROPLANE AND MOTORCYCLE.

Specially constructed for all types of aeroplanes and motorcycles. Not affected by heat or oil conditions.

No. J1S63—Metric Aero.	Each
Lots of 1 to 99	$1.24
Lots of 100	1.20
Lots of 500	1.14
Lots of 1000	1.10

CHAMPION.

REGULAR ½ INCH.

Factory equipment on Studebaker cars. Will give satisfactory service on all cars requiring a ½ inch regular spark plug.

No. A13—½ inch regular.	Each
Lots of 1 to 99	$1.24
Lots of 100	1.20
Lots of 500	1.14
Lots of 1000	1.10

REGULAR ⅞ Inch.

Will give satisfactory service on all cars, trucks, tractors or stationary engines requiring a ⅞-18 standard plug.

No. A43—⅞ inch regular.	Each
Lots of 1 to 99	$1.24
Lots of 100	1.20
Lot of 500	1.14
Lots of 1000	1.10

CHAMPION HEAVY STONE.

TWO PIECE.

Especially adapted for use in such cars as Cadillac, Case, Moline-Knight, White, Willys-Knight, trucks and tractors where heavy service work is performed.

No. B13—½ inch standard.	Each
Lots of 1 to 99	$1.46
Lots of 100	1.40
Lots of 500	1.34
Lots of 1000	1.30
No. B43—⅞ inch standard	
Lots of 1 to 99	$1.46
Lots of 100	1.40
Lots of 500	1.34
Lots of 1000	1.30

CHAMPION TRACTOR. HEAVY STONE.

For I. H. C., Hart-Parr and all tractors using a plug with a ¾-inch thread.

No. B73—¾ inch tractor.	Each
Lots of 1 to 99	$1.46
Lots of 100	1.40
Lots of 500	1.34
Lots of 1000	1.30

ALL-IN-ONE PRIMING.

	Each
No. H14—⅞ inch; All-In-One, priming; especially designed for Ford cars.	
Lots of 1 to 99	$1.95
Lots of 100	1.90
Lots of 500	1.84
Lots of 1000	1.80
No. H44—⅞x18 inch; All-In-One, priming; designed for motors requiring a standard ⅞ inch spark plug.	
Lots of 1 to 99	$1.96
Lots of 100	1.90
Lots of 500	1.84
Lots of 1000	1.80

CHAMPION PORCELAINS

No. A103

No. A104

No. B103

The No. A103 is the correct porcelain for replacement of porcelains on Nos A13 and A43 Champion spark plugs.

No. A103—Extra Porcelains.	Each
Lots of 1 to 99	$0.70
Lots of 100	.66
Lots of 500	.60

The No. A104 is the correct porcelain for replacement of porcelains on Nos. A14, A140 and A44 Champion spark plugs.

No. A104—Extra Porcelains.	Each
Lots of 1 to 99	$0.70
Lots of 100	.66
Lots of 500	.60

The No. A503 is the correct porcelain for replacement of porcelains on Nos. A23, A53 and AA53 Champion spark plugs.

No. A503—Extra Porcelains.	Each
Lots of 1 to 99	$0.70
Lots of 100	.66
Lots of 500	.60

The No B103 is the correct porcelain for replacement of porcelains on Nos. B13, B43 and B73 Champion spark plugs

No. B103—Extra Porcelains.	Each
Lots of 1 to 99	$0.86
Lots of 100	.80
Lots of 500	.74

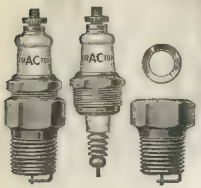
The No. H104 is the correct porcelain for replacement of porcelains on Nos. H14 and H44 Champion spark plugs.

No. H104—Extra Porcelains.	Each
Lots of 1 to 99	$0.86
Lots of 100	.80
Lots of 500	.74

A. C. SPARK PLUGS.

"THE STANDARD SPARK PLUG OF AMERICA."

A. C. TRACTOR.



This new construction combines the advantages of the Titan carbon-proof one-piece design with the ready demountability of the Standard AC. It can be taken apart and reassembled any number of times without risk of spoiling the packing. Particularly recommended for kerosene burning motors, tractors, etc.

Each

No. 78ACT—Tractor; regular ⅞ inch.
In lots of 1 to 99 ..... $1.44
In lots of 100 ..... 1.34
In lots of 500 ..... 1.25

No. 12ACT—Tractor; regular ½ inch.
In lots of 1 to 99 ..... 1.44
In lots of 100 ..... 1.34
In lots of 500 ..... 1.24

No. ACTP—Tractor Porcelains.
In lots of 1 to 99 ..... $0.86
In lots of 100 ..... .80
In lots of 500 ..... .74

A. C. STANDARD.

No. 78LAC.

Designed for 1908 Buick; regular equipment on all Buick cars up to 1914.

Each

No. 78LAC—Standard; long ⅞ inch.
In lots of 1 to 99 ..... $1.20
In lots of 100 ..... 1.10
In lots of 500 ..... 1.00

Regular equipment on Singer.

Each

No. 78RAC—Standard; regular ⅞ inch A. L. A. M.
In lots of 1 to 99 ..... $1.20
In lots of 100 ..... 1.10
In lots of 500 ..... 1.00

No. 78RAC.

Extra Porcelains for Standard.

Each

No. 1ACP—Porcelain; will fit all style 1AC standard plugs.
In lots of 1 to 99 ..... $0.52
In lots of 100 ..... .47

No. 2ACP—Porcelain; will fit all style 2AC standard plugs.
In lots of 1 to 99 ..... $0.52
In lots of 100 ..... .47

No. 12CPT.

A. C. CARBON PROOF.

The ½ inch Regular AC Titan Carbon Proof is used as regular equipment on the following tractors: Avery, Eagle, Howell, Lacrosse, Pioneer. Also Elmira passenger cars, Maytag washing machines, Roberts motors and Swartz lighting plants. Recommended for Ford, Overland and Studebaker cars or any motor using ½ inch regular plugs.

Each

No. 12CPT—½ inch Carbon Proof.
In lots of 1 to 99 ..... $1.26
In lots of 100 ..... 1.16
In lots of 500 ..... 1.06

A. C. TITAN.

No. 78RT.

Regular equipment on Cadillac, Chalmers, Cole, Dort, Hudson, Hupmobile, Jordan, Kissel-Kar, Liberty, National, Oldsmobile, 8 cyl. Packard, Paige-Detroit, Peerless, Pierce-Arrow and 109 other well known makes of passenger cars, trucks and tractors.

Each

No. 78RT—Titan; regular ⅞ inch.
In lots of 1 to 99 ..... $1.26
In lots of 100 ..... 1.16
In lots of 500 ..... 1.06

No. 78LBT.

Regular equipment on Chandler, Crane-Simplex, White. Also Bessemer, Hahn, Moreland, Nobl and Robinson fire trucks.

Each

No. 78LBT—Titan; long body; ⅞ inch.
In lots of 1 to 99 ..... $1.26
In lots of 100 ..... 1.16
In lots of 500 ..... 1.06

Regular equipment on Buick, Chevrolet, McLaughlin-Buick-Canada, Scripps-Booth, 4 cyl., SSE Co. Knox, Samson and Wolverine tractors.

Each

No. 78LT—Titan; long ⅞ inch.
In lots of 1 to 99 ..... $1.26
In lots of 100 ..... 1.16
In lots of 500 ..... 1.06

No. 78LT.

No. 78RATT.

Especially designed for high speed, high compression motors and for air cooled motors. Used as regular equipment on National cars. Particularly recommended for motorcycles.

Each

No. 78RATT—Titan; regular ⅞ inch Aircraft
In lots of 1 to 99 ..... $1.26
In lots of 100 ..... 1.16
In lots of 500 ..... 1.06

A. C. TITAN.

No. 78DT.

Slightly longer than ⅞-inch Reg. Regular equipment on all Dodge cars

Each

No. 78DT—Titan; Dodge Special ⅞-inch
In lots of 1 to 99. **$1.26**
In lots of 100 . **1.16**
In lots of 500..... **1.06**

No. 18MT.

A. C. TITAN.

Regular equipment on Essex, B. & S. Motor Wheel. Recommended for Pierce-Arrow, 1915; all cars using metric plugs

Each

No. 18MT Titan; regular metric.
In lots of 1 to 99 . . **$1.26**
In lots of 100. . . . . **1.16**
In lots of 500..... **1.06**

A. C. CICO.

No. 78DC.

Dodge Special Cico, slightly longer than ⅞-inch Reg. Standard equipment on all Dodge cars up to 1919. New models using Dodge Special Titan

Each

No. 78DC—Cico Dodge Special; ⅞-inch.
In lots of 1 to 99. . . . **$0.96**
In lots of 100..... **.88**
In lots of 500..... **.84**

No. SAET.

Regular equipment on Apperson, Daniels, Commonwealth, Haynes, Locomobile, Marmon, Mitchell, Saxon, Singer, Stearns-Knight, Gabriel Trucks, Wallis Tractors and Delco-Light.

Each

No. SAET—Titan; regular SAE.
In lots of 1 to 99 . . **$1.26**
In lots of 100 . . . . **1.16**
In lots of 500 ..... **1.06**

No. 18SMT.

Recommended for Peerless up to 1915 and Packard up to 1914.

Each

No. 18SMT—Titan; short metric
In lots of 1 to 99 **$1.26**
In lots of 100 . . **1.16**
In lots of 500. . . . **1.06**

No. SAEC

Regular equipment on all Saxon cars up to 1919. New models using SAE Reg. Titan.

Each

No. SAEC—Cico, S. A. E. or A. L. M. A.
In lots of 1 to 99. . **$0.96**
In lots of 100 ..... **.88**
In lots of 500. ... **.80**

No SAELT.

Regular equipment on Oakland 34-B, Oldsmobile 6 cyl., Premier, Seneca, all Nash cars up to 1919.

Each

No. SAELT—Titan; long S. A. E.
In lots of 1 to 99....**$1.26**
In lots of 100 ..... **1.16**
In lots of 500.... **1.06**

A. C. CICO.

No. 78RC.

Regular equipment on all Dort, Federal Trucks, G. M. C. Trucks, Hudson, Hup, Liberty, Paterson, Paige, Pilot cars up to 1919 New models using ⅞-inch Reg. AC Titan

Each

No. 78RC—Cico; regular ⅞-inch.
In lots of 1 to 99....**$0.96**
In lots of 100..... **.88**
In lots of 500 ..... **.80**

No. 12RC.

Recommended for Ford, Studebaker and Overland and all cars using ½-inch Standard plugs.

Each

No. 12RC—Cico; regular ½-inch.
In lots of 1 to 99.. **$0.96**
In lots of 100 ..... **.88**
In lots of 500..... **.80**

No. 12LT

Regular equipment on all Reo cars and trucks up to 1919. New models using long ½-inch AC Titan.

Each

No. 12LT—Titan; long ½-inch.
In lots of 1 to 99... **$1.26**
In lots of 100 ..... **1.16**
In lots of 500..... **1.06**

No. 78LC.

Regular equipment on Chevrolet 490 up to 1919. New models using ⅞-inch long AC Titan.

Each

No. 78LC—Cico; long ⅞-inch.
In lots of 1 to 99....**$0.96**
In lots of 100..... **.88**
In lots of 500..... **.80**

No. 12LC

Regular equipment on Reo cars and trucks. Recommended for Overland up to 1914 and Winton up to 1915

Each

No. 12LC—Cico; long ½-inch.
In lots of 1 to 99....**$0.96**
In lots of 100..... **.88**
In lots of 500..... **.80**

1847
Seventy Year Plate
1917

1847 ROGERS BROS.
SILVERWARE

The Easiest Selling Merchandise

OLD COLONY PATTERN

French Grey, Bright Trimmed

Note the pierced handle and the sterling effect of the design. Its popularity stamps it as one of the most remarkable patterns ever produced in silver plate.

Table Spoon

Dessert Spoon

Tea Spoon

Dessert Fork

Dessert Knife

			Per Doz.
No. 5517	Tea Spoons, twelve in unlined box		$10.35
No. 5518	Dessert Spoons, twelve in unlined box		18.40
No. 5519	Table Spoons, twelve in unlined box		20.70
No. 5520	Dessert Forks, Flat Handle, twelve in unlined box		18.40
No. 5521	Medium Forks, Flat Handle, twelve in unlined box		20.70
		Per Dozen	
No. 5522	Medium Knives, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll	$32.40	
No. 5523	Dessert Knives, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll	30.50	
No. 5524	Breakfast Knives, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll	30.25	
No. 5525	Medium Forks, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll	32.40	
No. 5526	Dessert Forks, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll	30.50	

PRICES PER DOZEN

ILLUSTRATIONS ACTUAL SIZE

1847 Seventy Year Plate 1917

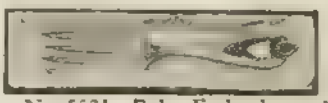
1847 ROGERS BROS.
SILVERWARE

The Easiest Selling Merchandise

OLD COLONY PATTERN
Illustrations One-third Scale

No. 5527 Baby Spoon, short handle..$1 35 Each
Per Set
5528 Short Handle Baby Spoon and Fork, set $2 70
5529 Short Handle Baby Spoon and Fork and Food Pusher $4 05

No. 5530 Baby Spoon, bent handle, each..$1 35



No. 5531 Baby Fork, short handle, each $1 35

No. 5532 Food Pusher, each..$1.35
No. 5533 Baby Spoon, bent handle, and Food Pusher, per set. 2 70

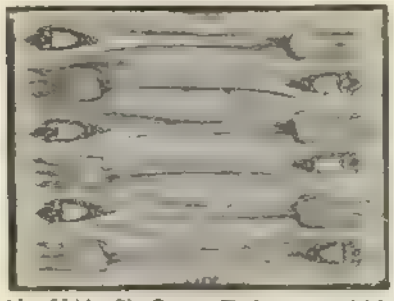
No. 5534 Child's Set, 3 pieces, Nickel Silver, Silver Soldered, Hollow Handle Knife, set $5.70
No. 5535 Child's Set, 3 pieces, and Napkin Ring, with Nickel Silver, Silver Soldered, Hollow Handle Knife, per set $6 90

No. 5536 Six Coffee Spoons, per set. $5.20
No. 5537 Sugar Tongs and Six Coffee Spoons, per set $9 20
No 5538 Six Five O'clock Tea Spoons, set $5.75
Length of Spoons, 5⅛ ins.

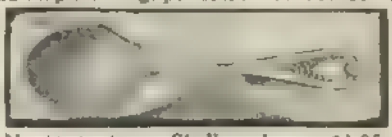
No. 5539 Sugar Tongs each, $3 25

No. 5540 Child's Set, 3 pieces, per set $4 30
No. 5541 School Set, Dessert Knife, hollow handle, Dessert Fork and Spoon, Tea Spoon and Napkin Ring, per set. $8 75

No 5542 Sugar Sifter, each $3 05



No. 5544 Six Oyster Forks, set $6.75

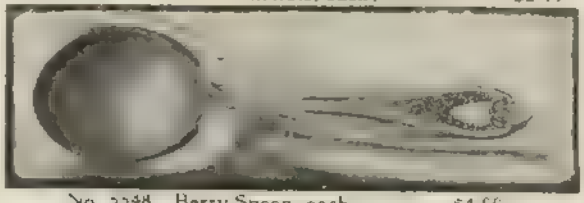


No. 5545 Sugar Shell, each. . $1.85

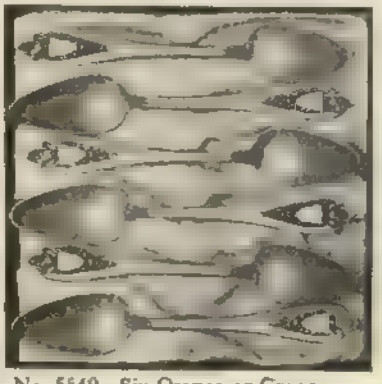
No. 5543 Butter Knife and Sugar Shell, per set. $3.90

No. 5546 Butter Knife, bent handle, each. $2 15

No. 5547 Cold Meat Fork, each $2 55



No. 5548 Berry Spoon, each $4 00



No. 5549 Six Orange or Grape Fruit Spoons, per set . .$6 55

No. 5550 Six Butter Spreaders, flat handle, per set . . . . . .$ 8 35
No. 5551 Six Butter Spreaders, hollow handle, per set. 14.70

No. 5552 Six Egg Spoons, per set. $5.75

1847 Seventy Year Plate 1917

1847 ROGERS BROS.
SILVERWARE

The Easiest Selling Merchandise

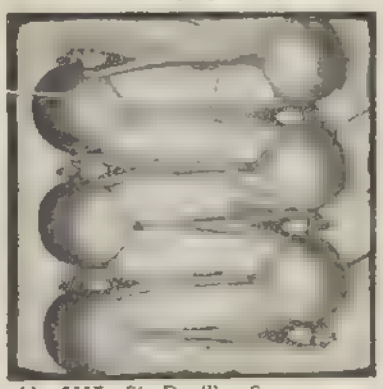
OLD COLONY PATTERN
Illustrations One-third Scale

No. 5553 Six Individual Pastry Forks, per set $10.35

No. 5554 Six Soup Spoons, per set .$11.50

No. 5555 Six Individual Salad Forks, per set $10 35

No 5556 Beef Fork each $2 25



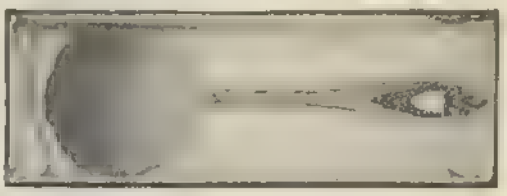
No. 5557 Six Bouillon Spoons, per set .. . $9.20

No 5558 Pickle Fork, short, each $1 85

No. 5559 Mayonnaise Ladle, each $2 20

No 5560 Preserve or Jelly Spoon, each $3 20

No 5561 Pickle Fork, long or Olive Fork each, $2 00



No. 5562 Cucumber or Tomato Server, each $4 35

No. 5563 Pie Server hollow handle, each $3 45

Iced Tea Spoon
No. 5566
Per doz. $14 30
Six in lined box
No. 5567
Per set $8 00

No. 5564 Sandwich or Baked Potato Fork each $2 75

No. 5565 Pie Server solid handle, each $3 25

No 5568 Jelly Knife each $2 20

No 5569	Medium Ladle (illustrated), each .	$ 5 05
No 5570	Oyster Ladle, each	7 55
No 5571	Cream Ladle, each	2 45
No 5572	Gravy Ladle, each	3 25

No. 5573 Pie Knife, each $5 45

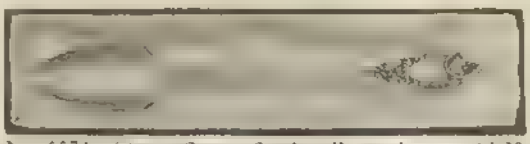
1847 Seventy Year Plate 1917

1847 ROGERS BROS.
SILVERWARE

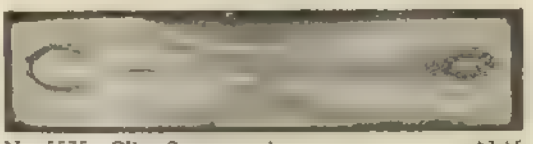
The Easiest Selling Merchandise

OLD COLONY PATTERN

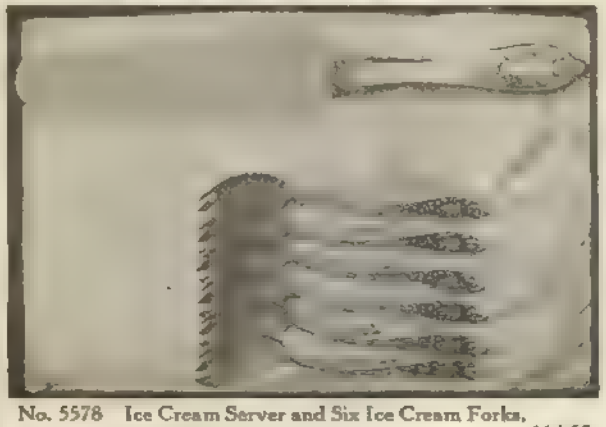
Illustration One-third Scale



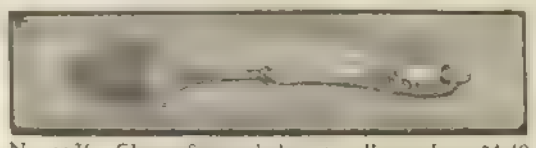
No. 5574 Cheese Scoop, flat handle, each $3.20



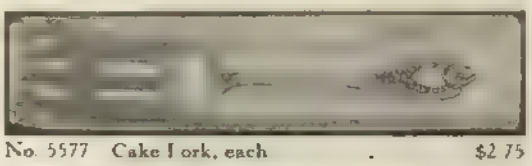
No. 5575 Olive Spoon, each $2.15



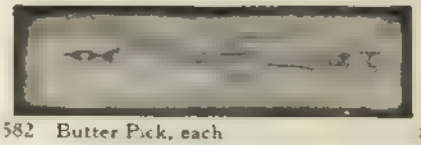
No. 5578 Ice Cream Server and Six Ice Cream Forks, per set $14.50
No. 5579 Six Ice Cream Forks, per set 8.15
No. 5580 Ice Cream Server and Six Ice Cream Spoons, per set 12.70
No. 5581 Six Ice Cream Spoons, per set .. 6.35



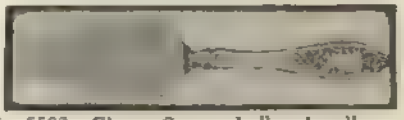
No. 5576 Cheese Scoop, hollow handle, each $4.40



No. 5577 Cake Fork, each $2.75

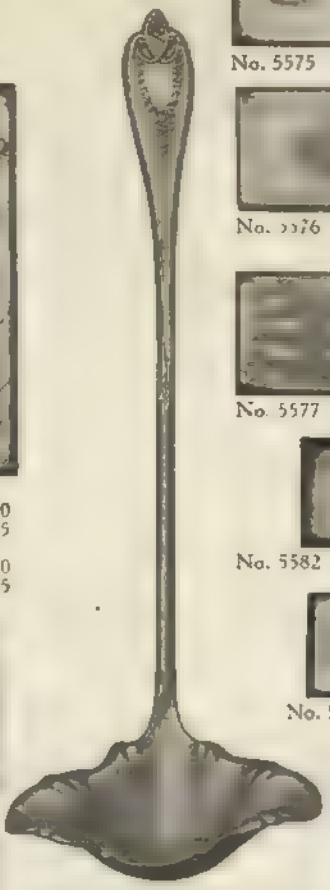


No. 5582 Butter Pick, each $2.05



No. 5583 Cheese Server, hollow handle, each $2.75

No. 5584 Salad Fork, each .. $5.45

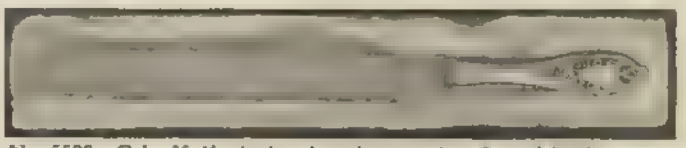


Punch Ladle, flat handle
No. 5585 Each $15.35
No. 5586 Gilt bowl... 18.25
In lined Box.

No. 5587 Salad Spoon, each $4.80

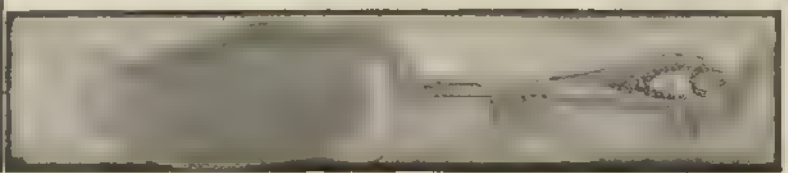
No. 5588 Six Fruit Forks, per set $6.35

No. 5589 Ice Spoon, each $4.40



No. 5590 Cake Knife, hollow handle, with No. 2 steel blade, each $3.85

No. 5591 Fish Fork, each .. $7.00



No. 5592 Fish Knife, each .. $9.40

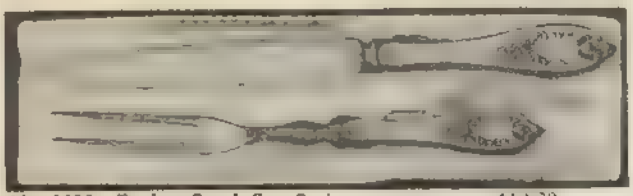
1847 Seventy Year Plate 1917

1847 ROGERS BROS.
SILVERWARE

The Easiest Selling Merchandise

OLD COLONY PATTERN

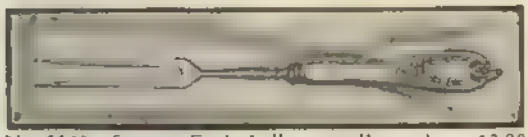
Illustrations One-third Scale



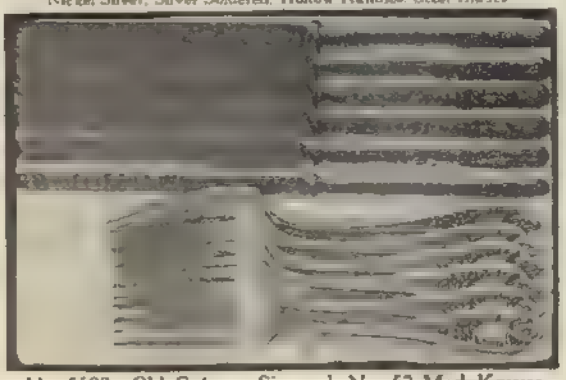
No. 5593 Bird or Steak Set, 2 pieces, per set. $10 20
No. 5594 Bird or Steak Set, 3 pieces, per set. 14 70
No. 5595 Game Set, 2 pieces, per set 15.45
Nickel Silver, Silver Soldered, Hollow Handles, Steel Blades

No. 5596 Roast Holder, hollow handle each $5.15

No. 5597 Nut Crack, hol. handle, ea $6.10

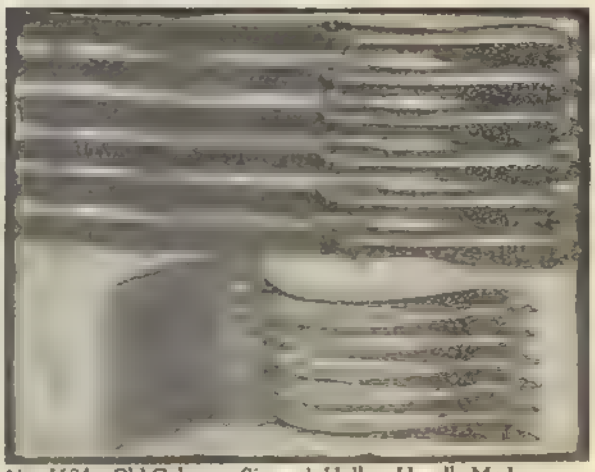


No. 5598 Serving Fork, hollow handle, each $2 90

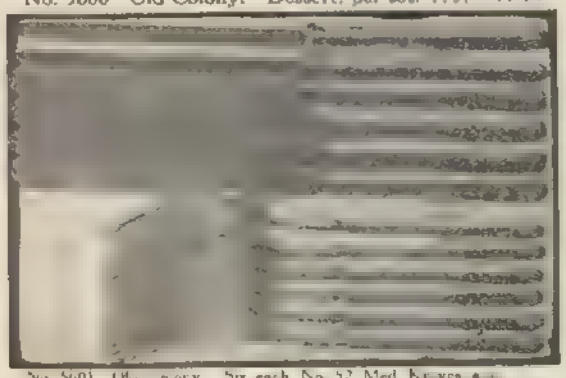


No. 5599 Old Colony, Six each No 52 Med. Knives and Old Colony Flat Handle Med Forks, set .$16 90
No. 5600 Old Colony, Dessert, per set. 15 55

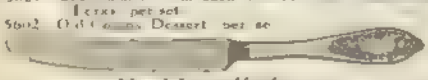
No 5603 Bread Knife, hol. handle, Each. $5 50



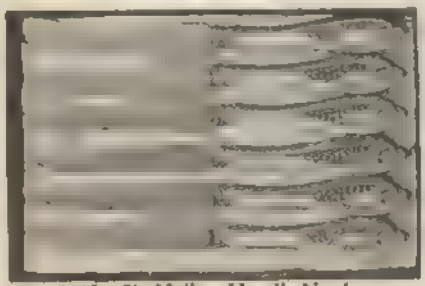
No. 5604 Old Colony, Six each Hollow Handle Med. Knives and F. H. Med. Forks (illustrated), set $27.35
No. 5605 Old Colony, Dessert, per set 25.30
No 5606 Old Colony Six each Hollow Handle Med. Knives and Forks, per set 32.40
No 5607 Old Colony Six each Hollow Handle Med. Knives and Dessert Forks per set 31 50
No. 5608 Old Colony, Six each Hollow Handle Des. Knives and Forks per set 30 50



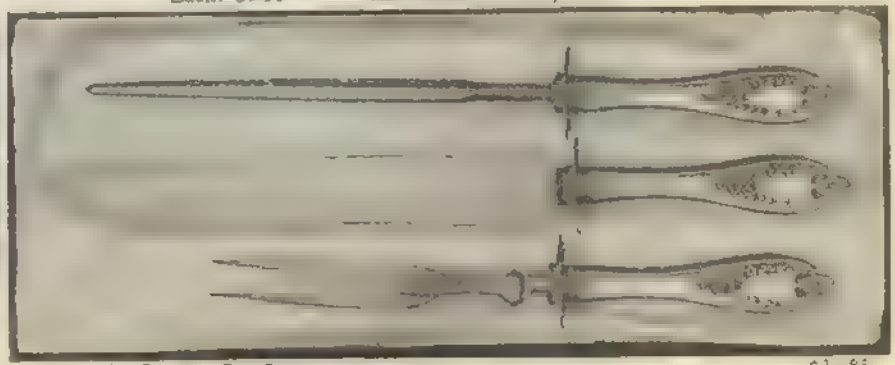
No. 5601 Old Colony Six each No 52 Med Knives and Forks per set $ 2.45
No 5602 Old Colony Dessert per set 2 05



No. 2 Fruit Knife



No. 5609 Six Hollow Handle No. 1 Fruit Knives, per set. $12 85
No. 5610 Six Hollow Handle No 2 Fruit Knives, per set 12.85
No 5611 Six Hollow Handle No. 2 Fruit Knives, saw back set 14 35



No 5612 Carving Set, 3 pieces, per set $2 85
Nickel Silver, Silver Soldered, Hollow Handles, Steel Blade

1847
Seventy Year Plate
1917

1847 ROGERS BROS.
SILVERWARE

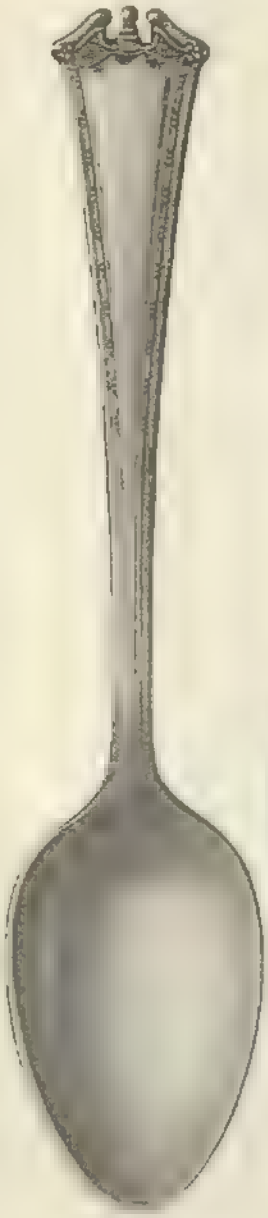
The Easiest Selling Merchandise

CONTINENTAL PATTERN

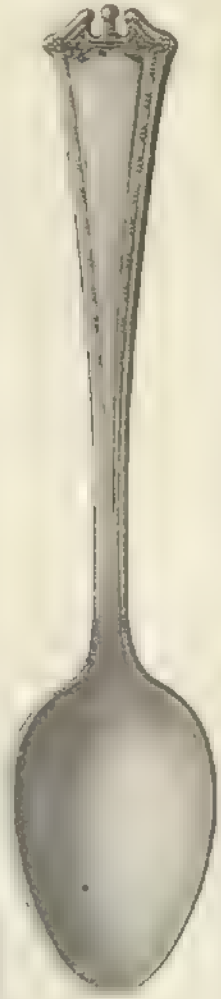
Bright, Grey Trimmed

This pattern is a radical departure from anything produced heretofore in Silver Plate and is especially desirable, harmonizing, as it does, with present-day furnishings

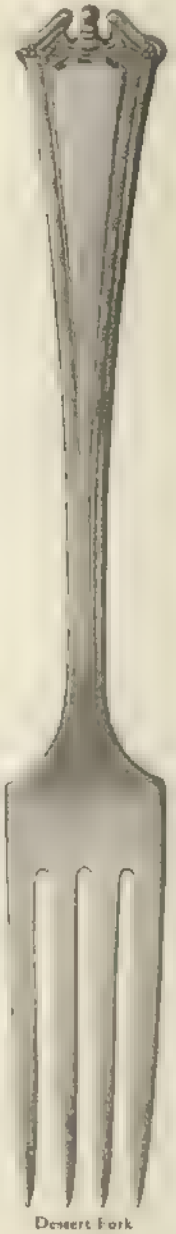
Table Spoon



Dessert Spoon



Tea Spoon



Dessert Fork

Dessert Knife

			Per Dozen
No. 5613	Tea Spoons, twelve in unlined box.	$10 35	
No. 5614	Dessert Spoons, twelve in unlined box	18 40	
No. 5615	Table Spoons, twelve in unlined box	20 70	
No. 5616	Dessert Forks, flat handle, twelve in unlined box	18 40	
No. 5617	Medium Forks, flat handle, twelve in unlined box	20 70	
No. 5618	Medium Knives, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll		$32 40
No. 5619	Dessert Knives, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll		30 50
No. 5620	Table Knives, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll		33 15
No. 5621	Medium Forks, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll		32 40
No. 5622	Dessert Forks, Nickel Silver, Silver Soldered, Hollow Handles, six in flannel roll		30 50

PRICES PER DOZEN

ILLUSTRATIONS ACTUAL SIZE.

GENERAL PURPOSE.

For use on harvesters, agricultural implements, carriages, wagons, etc., and for general service where a light and long wrench is desired. A set of these wrenches will fit all size nuts on carriage or machine bolts from 1/4 to 1/2 inch.

22° ANGLE.

For carriage or automobile trade and for general service in which a light long wrench is required.

UNFINISHED.

Plain forgings, not hardened; openings milled.

Nos.	Each.	For Bolts.	For Nuts, Ins.	Length, Ins.	Wgt. Each Oz.
U500	$0.18	1/4 & 5/16	5/16 & 3/8	6 3/4	3
U501	.23	5/16 & 3/8	3/8 & 7/16	7 1/8	5
U502	.29	3/8 & 7/16	7/16 & 1/2	8 1/4	8
U503	.38	7/16 & 1/2	1/2 & 9/16	9 1/4	11
U504	.50	1/2 & 9/16	9/16 & 1	10 3/8	16

IN SETS.

Per Set

No. US—Contains one each, Nos. U500 to U504; in a wooden box; weight, 4 lbs. $1.74

SEMI-FINISHED.

Plain forgings; edges ground; heads case hardened; bright finish; openings milled.

Nos	Each.	For Bolts.	For Nuts, Ins.	Length, Ins.	Wgt. Each Oz.
SF500	$0.27	1/4 & 5/16	5/16 & 3/8	6 3/4	3
SF501	.34	5/16 & 3/8	3/8 & 7/16	7 1/8	5
SF502	.43	3/8 & 7/16	7/16 & 1/2	8 1/4	8
SF503	.55	7/16 & 1/2	1/2 & 9/16	9 1/4	11
SF504	.70	1/2 & 9/16	9/16 & 1	10 3/8	16

IN SETS.

Per Set

No. SFS—Containing one each, Nos. SF500 to SF504; in a wooden box; weight, 4 lbs. $2.45

FINISHED.

Plain forgings; wire brushed; edges ground; heads case hardened and polished. Especially adapted for mechanics, automobile supply houses, etc. Openings milled, mottled finish.

Nos.	Each	For Bolts.	For Nute, Ins.	Length, Ins.	Wgt. Each Oz.
F500	$0.38	1/4 & 5/16	5/16 & 3/8	6 3/4	3
F501	.47	5/16 & 3/8	3/8 & 7/16	7 1/8	5
F502	.58	3/8 & 7/16	7/16 & 1/2	8 1/4	8
F503	.72	7/16 & 1/2	1/2 & 9/16	9 1/4	11
F504	.90	1/2 & 9/16	9/16 & 1	10 3/8	16

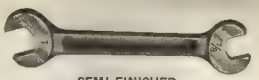
IN SETS.

Per Set

No. FS—Containing one each, Nos. F500 to F504; in a wooden box; weight, 4 lbs. $3.21

ENGINEERS'

15° ANGLE.



SEMI-FINISHED.

Nos	Each.	U. S. S. Nuts, Bolt Sizes	Milled Openings, Ins.	Length, Ins.	Wgt. Each Oz.
S21	$0.17	1/4 & 5/16	5/16 & 11/32	3 1/4	1
S23	.21	5/16 & 3/8	11/32 & 3/8	4	2
S25	.25	3/8 & 7/16	3/8 & 13/32	4 3/8	3
S26	.31	3/8 & 7/16	13/32 & 7/16	5 1/8	3
S27	.31	7/16 & 1/2	7/16 & 15/32	5 7/8	3
S28	.37	7/16 & 1/2	15/32 & 1/2	6 5/8	3 1/2
S29	.37	1/2 & 9/16	1/2 & 17/32	6 7/8	4
S30	.45	9/16 & 5/8	17/32 & 9/16	7 3/4	6
S31	.45	9/16 & 5/8	9/16 & 19/32	7 3/4	6
S32	.55	5/8 & 3/4	19/32 & 5/8	8 3/4	9
S33	.55	5/8 & 3/4	5/8 & 21/32	8 3/4	9
S34	.68	3/4 & 7/8	21/32 & 3/4	9 3/4	13
S37	.96	1 & 1 1/16	3/4 & 25/32	11 5/8	23
S41	1.90	1 1/16 & 1 1/8	25/32 & 13/16	13 1/2	69

FINISHED.

Nos	Each.	U. S. S. Nuts, Bolt Sizes.	Milled Openings, Ins.	Length, Ins.	Wgt. Each Oz.
F21	$0.26	1/4 & 5/16	5/16 & 11/32	3 1/4	1
F23	.32	5/16 & 3/8	11/32 & 3/8	4	2
F25	.38	3/8 & 7/16	3/8 & 13/32	4 3/8	3
F26	.46	3/8 & 7/16	13/32 & 7/16	5 1/8	3
F27	.46	7/16 & 1/2	7/16 & 15/32	5 7/8	3
F28	.56	7/16 & 1/2	15/32 & 1/2	6 5/8	3
F29	.56	1/2 & 9/16	1/2 & 17/32	6 7/8	4
F30	.68	9/16 & 5/8	17/32 & 9/16	7 3/4	6 1/2
F31	.68	9/16 & 5/8	9/16 & 19/32	7 3/4	6
F32	.85	5/8 & 3/4	19/32 & 5/8	8 3/4	9
F33	.85	5/8 & 3/4	5/8 & 21/32	8 3/4	9
F34	1.08	3/4 & 7/8	21/32 & 3/4	9 3/4	13
F37	1.40	3/4 & 3/4	1 1/16 & 1 1/4	11 5/8	23
F41	2.60	1 1/16 & 1 1/8	1 5/16 & 1 3/8	15 1/2	69

CAP SCREW.

SEMI-FINISHED.

FOR HEXAGON HEAD CAP SCREWS.

Nos.	Each.	Diameter of Screw, Ins.	Milled Openings, Ins.	Length, Ins.	Wgt. Each Oz
S721	$0.17	1/4 & 5/16	7/16 & 13/32	3 1/4	2
S723	.21	5/16 & 3/8	3/8 & 7/16	4	2
S723A	.21	5/16 & 3/8	3/8 & 7/16	4	2
S725	.25	3/8 & 7/16	7/16 & 1/2	4 3/8	3
S725B	.25	3/8 & 7/16	3/8 & 7/16	4 3/8	3
S727	.31	3/8 & 7/16	7/16 & 1/2	5 1/8	3
S729	.37	7/16 & 1/2	1/2 & 9/16	6 1/8	4
S731	.45	1/2 & 9/16	9/16 & 5/8	7 3/8	7
S731B	.45	1/2 & 9/16	11/16 & 5/8	7 3/8	7

FINISHED.

FOR HEXAGON HEAD CAP SCREWS.

Nos.	Each	Diameter of Screw, Ins	Milled Openings, Ins	Length, Ins.	Wgt. Each Oz.
F721	$0.26	1/4 & 5/16	7/16 & 13/32	3 1/4	2
F723	.32	5/16 & 3/8	3/8 & 7/16	4	2
F723A	.32	5/16 & 3/8	3/8 & 7/16	4	2
F725	.38	3/8 & 7/16	7/16 & 1/2	4 3/8	3
F725B	.38	3/8 & 7/16	1/2 & 9/16	4 3/8	3
F727	.46	7/16 & 1/2	9/16 & 5/8	5 1/8	3
F729	.56	1/2 & 9/16	5/8 & 3/4	6 1/8	4
F731	.68	1/2 & 9/16	3/4 & 11/16	7 3/8	7
F731B	.68	1/2 & 9/16	11/16 & 5/8	7 3/4	7

WROUGHT IRON.

	WAGON.		
Nos.	93A	93B	93C
Length, ins.	9	9	9
Opening, ins.	2⅛	2⅛	2⅛
Wgt. doz., lbs.	17½	18	18
Per pound	$0.12	.12	

MALLEABLE.

Nos.	2320B	2320C	2320D	2320E
Length, inches	9	9½	10	10
For nuts, inches	⅝	1	1⅛	1¼
Weight per dozen, pounds	6	6½	7	7½
Per pound	$0.12	.12	.12	.12

In bulk.

FOR DEERING MACHINES.

Per Dozen

No. D—Malleable iron, length 7¼ inches, takes 6 different size nuts: ½, ⅝, ¾ and ⅞-inch, ½x½ and ¾x⅞ inch inside; average weight per dozen, 7 pounds $1.30

In bulk.

S PATTERN.

Nos.	2340A	2340B	2340C
Length, inches	10½	12½	9
For nuts, inches	½ to 1¼	⅝ to 1½	¼ to 1⅛
Weight per dozen, pounds	12½	18	10
Per pound	$0.12	.12	.12

In bulk.

WHITMAN & BARNES.

No. 1 ASSORTMENT.

Semi-Finished.

General purpose and engineer's wrenches are commonly required for farm, machine and automobile purposes.

These wrenches are case hardened with the ends ground and polished, bodies black enameled.

The board is an attractive selling medium, with background of light golden oak, display card in gold lettering outlined in black on a red field. Each wrench number is in red at side of each hooks

General Purpose Wrenches.

22½° Angle.

Quan.	No.	Openings Finished, Inches	Extreme Length, Inches
3	500	⅜ & ½	6¼
3	502	½ & ¾	8¼
3	504	⅞ & 1	10⅜

9 General purpose wrenches.

Engineers' Wrenches.

Quan.	No.	For U.S. Standard Nuts Size Bolts	Openings Milled	Extreme Length, Inches
3	21	⅛ & ¼	11/32 & 13/32	3¼
3	23	¼ & ⅜	13/32 & ½	4
3	25	⅜ & ½	½ & 19/32	4¾
3	27	½ & ⅝	19/32 & ¾	5¼
3	29	⅝ & ¾	¾ & 25/32	6¾
3	31	¾ & ⅞	25/32 & ⅞	7¾
3	34	⅞ & 1⅛	⅞ & 1⅛	9¾

21 Engineers' wrenches.

Per Assortment

No. 1WB—Wrench Assortment; 30 semi-finished wrenches, complete with board; size of board, 8x27 inches; weight with wrenches, 20 lbs $12.50

CRESCENT ADJUSTABLE.

SINGLE END.

A new design, neat, compact, and original, combining strength with light weight. Handle drop forged carbon steel hardened all-over. Movable jaw drop forged alloy steel, having four times the strength of ordinary steel

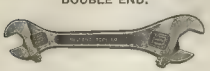
Each wrench subjected to a test before adjustment by a specially devised hydraulic testing machine, and warranted to exceed in strength the largest bolt, the nut of which is within the size of the wrench. Adjustment of the opening is readily made by the one hand holding the wrench. A small spring washer automatically retains the adjustment.

Nos.	CS4	CS6	CS8	CS10	CS12	CS15
Length, inches	4	6	8	10	12	15
Adjustable to, ins.	⅞	1⅛	1⅜	1⅝	1⅞	1¾
Wgt. per doz. lbs.	1½	5	8	16	24	52½
Per dozen	$7.80	7.80	9.60	12.00	18.00	27.00

One in a box.

CRESCENT, ADJUSTABLE.

DOUBLE END.



Same construction as Crescent Adjustable single end wrenches, but has double end. Unsurpassed for automobile owners, machinists, repair men or others who require a number of sizes in adjustable wrenches

Made from drop forged, heat treated, open hearth steel, polished finish.

Nos.	CD6-8	CD8-10
Length, inches	8	10
Capacity, inches	3/4-15/16	15/16-1 1/8
Weight per dozen, lbs.	8½	16
Per dozen	$15.00	18.00

One in a box.

EXTRA PARTS.

FOR CRESCENT WRENCHES.

Inches	4	6	8	10	12	15
Jaws	$0.25	.25	.30	.40	.50	.85
Knurls	$0.10	.10	.12	.15	.25	.25
Pins	$0.05	.05	.05	.05	.10	.10

CARLL COMBINATION.

Drop forged from high grade steel, carefully hardened and tempered; has reversible sliding jaw; may be used as a nut or pipe wrench; knurl has coarse threads which prevent stripping and is fitted with a spiral for holding it in adjustment; adjustable jaw has extended bearings in the head, giving it great strength and stiffness. Jaws and edges highly polished.

Nos.	60	80	100
Length, inches	6	8	10
Jaws open, inches	1	1⅜	1⅝
Weight per dozen, lbs.	4½	9¾	16½
Per dozen	$10.00	12.00	15.00

Packed one in a box, half dozen in a carton.

ADJUSTABLE "S."

No. 48—Improved, drop forged jaws; polished jaws and head; black enameled body.

Length, inches	6	8	10	12
Jaws open, inches	¾	1⅛	1½	2
Weight per dozen, pounds	5½	15	23	34
Per Dozen	$8.00	10.00	12.00	18.00

Half dozen in a box.

TRIMO AUTO.

Has the new nut guard feature which keeps the jaws in adjustment.

	Per Dozen
No. TA12—Auto monkey wrench; all steel; drop forged; case hardened; polished jaws; black handle; jaws open, 2 inches; length, 12 inches; weight per dozen, 36½ lbs.	$18.00

Half dozen in a box

HAWKEYE.

Open hearth drop forged carbon steel, tempered, with polished jaws and face.

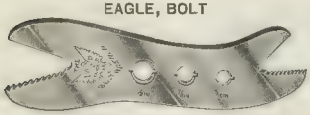
The Hawkeye combines a pipe wrench, nut wrench and thread cutter. All binders and mowers made by the International Harvester Co. are put together with three sizes of bolts and the dies on the Hawkeye will cut these threads. Will also remove "Never Slip" and "Rowe" calks. The best wrench for automobiles; in fact, it has more uses than any other wrench made.

Per Dozen.

No. 200—Hawkeye, case hardened, length 8½ inches; takes pipe ¼ to ¾ inch; takes nuts ⅜ to ⅞ inch bolt size; and cuts threads ¼-18, ⅜-16, ½-13; weight per dozen, 18 lbs. $9.50

Half dozen in a box.

EAGLE, BOLT

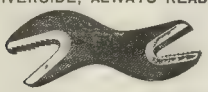


Per Dozen.

No. 200E—Solid cast high carbon steel of superior quality, oil tempered all over, milled teeth, black finish; will rethread ¼, ⅜ and ½ inch bolts. Holds round iron from ¼ to ⅞ inch in diameter; weight per dozen, 4 lbs. $3.50

One dozen in a box.

+RIVERSIDE, ALWAYS READY.



Drop forged, superior quality, oil tempered.

Nos.	101	102
Length, inches	5	7
Holds nuts or pipe, inches	¼ to ¾	¼ to 1¼
Weight per dozen, pounds	6	13
Per dozen	$6.20	8.40

Half dozen in a box

Drop forged, superior quality, oil tempered; drop forge finished body, polished jaws.

No.	14
Length, inches	10
Holds pipe, inches	⅛ to 1
Holds round iron, inches	¼ to 1
Holds nuts, inches	⅛ to ⅞
Weight per dozen, pounds	16
Per dozen	$12.00

Half dozen in a wooden box

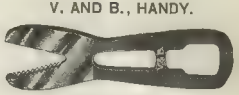
+RIVERSIDE, HANDY.

Drop forged, superior quality, oil tempered; drop forge finished body, polished jaws.

Nos.	12	13
Length, inches	5½	7
Holds pipe, inches	⅛ to ⅝	⅛ to 1
Holds round iron, inches	¼ to ¾	⅝ to 1¼
Holds nuts, inches	¼ to ¾	⅝ to ⅞
Weight per dozen, pounds	4¼	8½
Per dozen	$4.00	7.30

No. 12, one dozen; No. 13, half dozen in a wooden box.

V. AND B., HANDY.

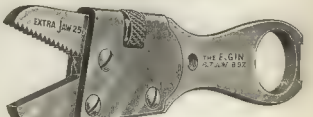


Extra cast steel, milled teeth, oil tempered; natural finish body, polished jaws

No.	1H
Length, inches	5½
Holds pipe, inches	⅛ to ⅝
Holds round iron, inches	¼ to ¾
Holds nuts, inches	¼ to ¾
Weight per dozen, pounds	3½
Per dozen	$1.80

One dozen in a box.

ELGIN ADJUSTABLE.



Can be used in combination with Threading Attachment. Will hold pipe or nuts; nickel plated, hardened steel jaws.

Per Dozen.

No. E7—Length 7 inches, takes pipe to ¾, nuts to 1⅛ inch, weight per dozen 7½ pounds $12.00

Half dozen in a box.

Per Dozen

Extra Jaws—For Elgin adjustable $3.00

STILLSON.

Drop forged steel; polished shank and jaws; 6 to 14-inch have ebony finished hardwood handle; 18 to 36-inch have solid steel handle.

List adopted Feb. 1, 1917.

Style 6 to 14 inch.

Nos.	S6	S8	S10	S14
Length, ins.	6	8	10	14
Adjustable to pipe, ins.	⅜ to ½	½ to ¾	⅞ to 1	1¼ to 1½
Weight each, lbs.	½	1	2	2½
Each	$2.00	2.25	2.50	3.50

Style 18 to 36-inch.

Nos.	S18	S24	S36
Length, ins.	18	24	36
Adjustable to pipe, inches	¼ to 2	¼ to 2½	¼ to 3½
Weight each, lbs.	6	10	15
Each	$5.00	7.25	13.50

Half dozen in a wooden box.

*EXTRA NUTS FOR STILLSON.

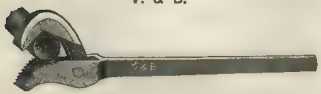
For Nos.	S6	S8	S10	S14	S18	S24	S36
Each	$0.12	.15	.20	.30	.35	.55	1.10

EXTRA JAWS FOR STILLSON.

For Nos.	S6	S8	S10	S14	S18	S24	S36
Each	$0.75	.80	.85	1.15	1.75	2.25	4.35

*Shipped from factory only.

V. & B.



Drop forged from bar cast steel; oil tempered; polished jaws; natural finish handle; works on pipe, hexagon or square nuts.

Nos.	VB14	VB24
Length, inches	14	24
Adjustable to pipe, inches	¼ to 1½	½ to 2½
Weight each, lbs	2¼	6½
Each	$3.00	6.00

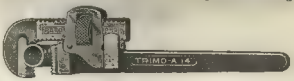
14-inch, half dozen in a wooden box; 24-inch, in bulk.

EXTRA JAWS.

For Nos.	VB14	VB24
Inches	14	24
Each	$1.20	3.00

TRIMO.

Drop forged steel, polished and hardened jaws; polished frame; japanned nuts and cast steel handle. All parts interchangeable.



List adopted Feb. 1, 1917.

Nos.	T6	T8	T10	T14
Length, ins.	6	8	10	14
Adjustable to pipe, ins.	⅛ to ½	⅛ to ¾	½ to 1	¾ to 1½
Weight each, lbs.	½	¾	1½	2¾
Each	$2.00	2.25	2.50	3.50
Nos.		T18	T24	T36
Length, ins.		18	24	36
Adjustable to pipe, ins.		¼ to 2	¼ to 2½	½ to 3½
Weight each, lbs.		4½	7½	16
Each		$5.00	7.25	13.50

Half dozen in a wooden box.

*EXTRA NUTS FOR TRIMO.

Nuts and Jaws.

F. O. B. Factory For Nos.	T6	T8	T10	T14	T18	T24	T36
Each	$0.12	.15	.20	.30	.35	.55	1.10

EXTRA JAWS FOR TRIMO.

For Nos.	T6	T8	T10	T14	T18	T24	T36
Each	$0.75	.80	.85	1.15	1.75	2.25	4.35

TRIMO, CHAIN.

Interchangeable in all its parts; both handle and jaws are drop-forged of selected steel; chains are of the best material and tested as to strength before leaving factory. Flat link chain.

Nos.	11	12	13	14
Length, inches	20	27	37	45
Length of chain, inches	13½	17½	23½	31
Adjustable to pipe, inches	¼ to 2	½ to 3	¾ to 6	1 to 3
Weight each, pounds	4¾	8¾	16	29
Each, complete chain	$3.50	5.00	7.00	11.00

EXTRA PARTS.

Extra flat link chains, each	$1.00	1.50	2.50	3.25
Extra jaws, per pair	1.75	2.75	4.00	4.75

*Factory Shipment.

AGRICULTURAL.

Forged from wrought bar, black, well finished and especially adapted to the wants of the general trade.

Nos.	AW6	AW8	AW10	AW12	AW15
Length, inches	6	8	10	12	15
Jaws open, inches	⅞	1¼	1¾	2⅛	2⅝
In case, dozen	6	6	6	6	3
Weight dozen, lbs.	8	15	22	27	40
Per dozen	$10.00	12.00	14.00	18.00	24.00

Half dozen in a package.

"PERFECT HANDLE."

Entire bar from top of head to end of handle is drop forged from one piece, special analysis, bar steel. Yoke joins the top and bottom strap of the sliding jaw rigidly, which prevents jaw from buckling under strain. Reinforced on back of bar to compensate for screw head cut out on front of bar. Swell of the handle is largest at the end, thus giving one to three inches more leverage. "Perfect Handle" locked under pressure, no splits nor cracks.

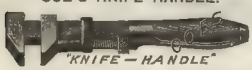
Manufacturers list adopted April 15, 1916.

Nos.	6156	6158	61510	61512
Length, inches	6	8	10	12
Jaws open, inches	1 1/16	1¼	1⅞	2 3/16
In boxes, dozen	½	½	½	½
Weight per dozen, lbs.	10	20	33	47
Per dozen	$10.00	12.00	14.00	18.00

Nos.	61515	61518	61521
Length, inches	15	18	21
Jaws open, inches	2¾	3½	4
In boxes, dozen	⅓	⅓	1/12
Weight per dozen, lbs.	67	100	155
Per dozen	$24.00	32.00	39.00

6 to 12 in., half dozen; 15 and 18-in., one-third dozen in a box 21-in., one in a box.

COE'S KNIFE HANDLE.



Wrought bar, jaws and screw; black finish. Guaranteed to do the work for which it is designed.

Nos.	CK6	CK8	CK10	CK12
Length, inches	6	8	10	12
Jaws open, inches	⅞	1¾	1¾	2⅛
Weight dozen, lbs.	8½	14½	24	36
Per dozen	$.5 00	15.00	22 00	28.00

Nos.	CK15	CK18	CK21
Length, inches	15	18	21
Jaws open, inches	2⅝	3	4⅛
Weight dozen, lbs.	52½	75	100
Per dozen	$38.00	48.00	58.00

6, 8, 10 and 12-inch, half dozen, 15, 18 and 21-inch, one-third dozen in a package.

PIPE.

BEMIS & CALL COMBINATION.

One piece forged tool steel head, bar and shank extending through handle with nut cap on end; hardened jaws, with milled steel pipe dog pinned to inner jaw. Polished ferrule and cap; polished hardwood handle.

No. 43 -Short nut, polished

Length, inches	10	12	15
Adjustable to pipe, inches	¼ to 1	½ to 1¾	½ to 2¼
Weight per dozen, pounds	24	36	52
Per dozen	$28.00	34.00	45.00

No. 45—Long sleeve nut, polished.

Length, inches	10	12	15
Adjustable to pipe, inches	¼ to 1	½ to 1¾	½ to 2¼
Weight per dozen, pounds	24	38	53
Per dozen	$30.00	36.00	48.00

Half dozen in a wooden box.

EXTRA PARTS.

For Bemis & Call Combination Wrenches.

For No. 43 short nut, polished.

Inches		10	12	15
Sliding Jaws	Each	$0.75	.90	1.20
Nuts	Each	.45	.60	.75
*Dogs	Each	.30	.36	.45

For No. 45 long sleeve nut, polished.

Inches		10	12	15
Sliding Jaws	Each	$0.75	.90	1.20
Nuts	Each	.45	.60	.75
*Dogs	Each	.30	.36	.45

*Dogs only in stock, balance of parts sent by mail from factory.

In ordering dogs, state if screw or rivet is wanted.

SINGLE BIT AXES

DIAMOND EDGE PHANTOM BEVELED

Polished and Labeled

DIAMOND EDGE Axes are Recognized as being the best Made. They are **Hand Tempered by an Improved Process. Every Axe carefully Tested** before leaving the Factory. This Practically prevents Axes with Flaws or Soft Cutting Edges Reaching the User. It also Insures Uniformity of Temper, without which an Axe will not Hold a Fine, Sharp Cutting Edge. Highest Grade **Crucible Steel** Bit, Carefully Tempered and Ground. Soft Steel Body. The **Eyes are Punched** from Solid Steel and will not stretch nor break, as occurs with Axes having a Rolled or Welded Eye. The **Eyes Tapered** from the outer to the Inner Opening; this Holds the Handle firmly and prevents its Splitting.

In Ordering Axes on this Page, Give Number and Weights Only

UNHANDLED

Phantom Beveled; Polished and Labeled; Bevels Painted Carmine

No. DE500—YANKEE PATTERN
Wide Bit; Narrow Square Head

Weights, Assorted	3 4	3 4½	4 5	4½ 5½
Per Dozen	$21.00	21.50	22.00	22.50

No. DE525—MICHIGAN PATTERN
Wide Bit; Round Head

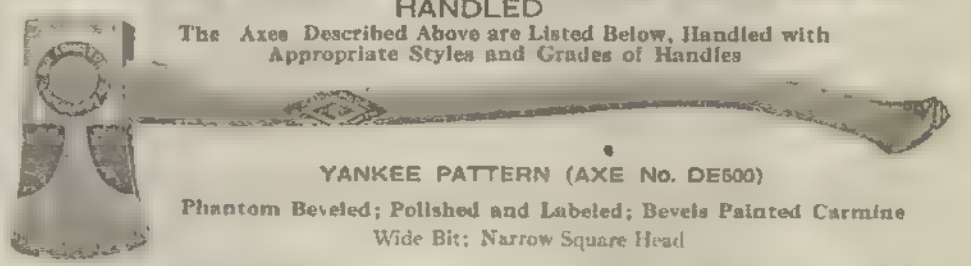
Weights, Assorted	3 4	3 4½	4 5	4½ 5½
Per Dozen	$21.00	21.50	22.00	22.50

One Dozen of Each Assortment of Weights in a Box, Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

THE DIAMOND EDGE AXE WEDGE IS USED IN HANDLING THIS AXE.



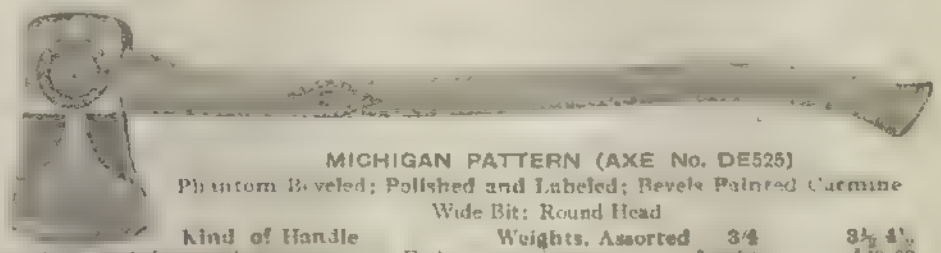
DIAMOND EDGE Axe Wedge used in all our Handled Axes. Full Description on Page 3.

YANKEE PATTERN (AXE No. DE500)

Phantom Beveled; Polished and Labeled; Bevels Painted Carmine
Wide Bit; Narrow Square Head

	Kind of Handle	Weights, Assorted	3/4	3½ 4½	4 5	4½ 5½
No. DE500AAA	With No. AAA Norleigh Diamond Oval, Plain End	Per Dozen	$28.50	$29.00	$29.50	$30.00
No. DE500BBB	With No. BBB Norleigh Diamond Oval, Plain End	"	28.50	29.00	29.50	30.00
No. DE500A	With No. A Norleigh Diamond Octagon, Scroll End	"	28.00	28.50	29.00	29.50
No. DE500B	With No. B Norleigh Diamond Oval, Scroll End	"	28.00	28.50	29.00	29.50
No. DE500BN	With No. BN Norleigh Diamond Oval, Plain End, **Lt. North.**	"	28.00	28.50	29.00	29.50
No. DE500C	With No. C Favorite Octagon, Scroll End	"	27.00	27.50	28.00	28.50
No. DE500D	With No. D Favorite Oval, Scroll End	"	27.00	27.50	28.00	28.50
No. DE500DN	With No. DN Favorite Oval, Plain End, **Light Northern.**	"	27.00	27.50	28.00	28.50
No. DE500FH	With No. FH Favorite Octagon, Plain End	"	27.00	27.50	28.00	28.50
No. DE500E1	With No. E Tip Top Octagon, Plain End	"	26.00	26.50	27.00	27.50
No. DE500XE	With No. XE Tip Top Octagon, Light Pattern	"	26.00	26.50	27.00	27.50
No. DE500E	With No. E Tip Top Oval, Plain End	"	26.00	26.50	27.00	27.50
No. DE500EN	With No. EN Tip Top Oval, Straight Pattern	"	26.00	26.50	27.00	27.50
No. DE500EN	With No. EN Tip Top Oval, Plain End, **Light Northern**	"	26.00	26.50	27.00	27.50
No. DE500I	With No. I Mound City Oval, Plain End	"	25.00	25.50	26.00	26.50
No. DE500O	With No. O Favorite Oval, Scroll End, **Oak**	"	26.00	26.50	27.00	27.50
No. DE500O	With No. O Live Oak Oval, Plain End, **Oak**	"	26.00	26.50	27.00	27.50
No. DE500PLO	**—With No. PLO Mound City Octagon, Plain End**	"	**25.00**	**25.50**	**26.00**	**26.50**

THE DIAMOND EDGE AXE WEDGE IS USED IN HANDLING THIS AXE.



MICHIGAN PATTERN (AXE No. DE525)

Phantom Beveled; Polished and Labeled; Bevels Painted Carmine
Wide Bit; Round Head

	Kind of Handle	Weights, Assorted	3/4	3½ 4½	4 5½	4½ 5
No. DE525AAA	With No. AAA Norleigh Diamond, Octagon, Plain End	Per Dozen	$28.50	$29.00	$29.50	$30.00
No. DE525BBB	With No. BBB Norleigh Diamond Oval, Plain End	"	28.50	29.00	29.50	30.00
No. DE525A	With No. A Norleigh Diamond Octagon, Scroll End	"	28.00	28.50	29.00	29.50
No. DE525B	With No. B Norleigh Diamond Oval, Scroll End	"	28.00	28.50	29.00	29.50
No. DE525BN	With No. BN Norleigh Diamond Oval, Plain End, Lt. North	"	28.00	28.50	29.00	29.50
No. DE525C	With No. C Favorite Octagon, Scroll End	"	27.00	27.50	28.00	28.50
No. DE525D	With No. D Favorite Oval, Scroll End	"	27.00	27.50	28.00	28.50
No. DE525DN	With No. DN Favorite Oval, Plain End, Light Northern	"	27.00	27.50	28.00	28.50
No. DE525FH	With No. FH Favorite Octagon, Plain End	"	27.00	27.50	28.00	28.50
No. DE525E1	With No. E Tip Top Octagon, Plain End	"	26.00	26.50	27.00	27.50
No. DE525XE	With No. XE Tip Top Octagon, Straight Pattern	"	26.00	26.50	27.00	27.50
No. DE525E	With No. E Tip Top Oval, Plain End	"	26.00	26.50	27.00	27.50
No. DE525EN	With No. EN Tip Top Oval, Straight Pattern	"	26.00	26.50	27.00	27.50
No. DE525EN	With No. EN Tip Top Oval, Plain End, Light Northern	"	26.00	26.50	27.00	27.50
No. DE525I	With No. I Mound City Oval, Plain End	"	25.00	25.50	26.00	26.50
No. DE525O	With No. O Favorite Oval, Scroll End, Oak	"	26.00	26.50	27.00	27.50
No. DE525O	With No. O Live Oak, Plain End, Oak	"	26.00	26.50	27.00	27.50
No. DE525PLO	With No. PLO Mound City Octagon, Plain End	"	25.00	25.50	26.00	26.50

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

SINGLE BIT AXES

*DIAMOND EDGE

Black Gun Metal Finish; Labeled

DIAMOND EDGE Axes are Recognized as Being the Best Made. They are Hand Tempered by an Improved Process. Every Axe Carefully Tested Before Leaving the Factory. This Practically Prevents Axes with Flaws or Soft Cutting Edges Reaching the User. It also Insures Uniformity of Temper, without which an Axe will not Hold a Fine, Sharp Cutting Edge. Highest Grade Crucible Steel Bit, Carefully Tempered and Ground. Soft Steel Body. The Eye is a Punched Opening and Steel and will not Stretch nor Break, as Occurs with Axes Having a Rolled or Welded Eye. The Eye is Tapered from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Springing.

In Ordering Axes on this Page, Give Numbers and Weights Only

UNHANDLED

Black Gun Metal; Labeled

DEB100–DAYTON PATTERN
Wide Bit; Square Head

Weights, Assorted	3 ¼	3½ 4½	4/5	4½ 5½	4½/6
Per Dozen..	$20.00	20.50	21.00	21.50	22.00

DEB200–MICHIGAN PATTERN
Wide Bit; Round Head

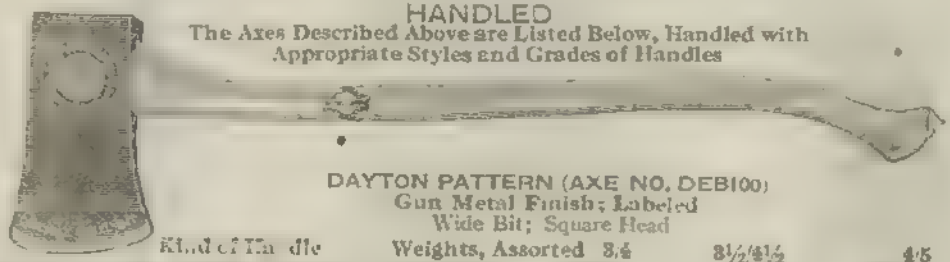
Weights, Assorted	3 ¼	3½ 4½	4/5	4½ 5½
Per Dozen ...	$20.00	20.50	21.00	21.50

One Dozen of Each Assortment in a Box; Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

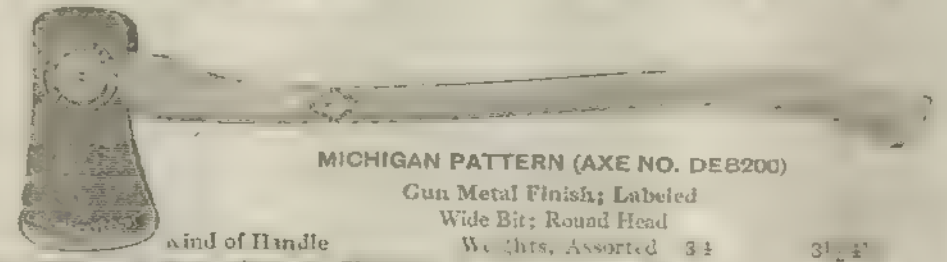


DIAMOND EDGE Axe Wedge Used in All of Our Handled Axes. Full Description on Page 3.

DAYTON PATTERN (AXE NO. DEB100)
Gun Metal Finish; Labeled
Wide Bit; Square Head

	Kind of Handle	Weights, Assorted 3¼	3½/4½	4/5	4½ 5½	4½/6
No. DEB100AAA	No. AAA Favorite Octagon, Plain End	$27 50	$28 00	$28 50	$29.00	$29 50
No. DEB100BBB	With No. BBB Norleigh Diamond Oval, Plain End	27 50	28 00	28 50	29 00	29 50
No. DEB100A	—With No. A Norleigh Diamond Octagon, Scroll End	27.00	27 50	28 00	28 50	29 00
No. DEB100B	—With No. B Norleigh Diamond Oval, Scroll End	27.00	27 50	28.00	28 50	29 00
No. DEB100BN	—With No. BN Nor. Dia. Oval, Plain End, Light Nor	27.00	27 50	28.00	28 50	29 00
No. DEB100C	" No. C Norleigh Octagon, Scroll End	26.00	26 50	27.00	27 50	28 00
No. DEB100D	" No. D Norleigh Oval, Scroll End	26.00	26 50	27 00	27.50	28 00
No. DEB100DN	—With No. DN Favorite Oval, Plain End, Light Nor	26 00	26 50	27 00	27 50	28 00
No. DEB100FH	—With No. FH Favorite Octagon, Plain End	26.00	26 50	27 00	27 50	28 00
No. DEB100E	—With No. E Tip Top Octagon, Plain End	25.00	25 50	26.00	26 50	27 00
No. DEB100XE	—With No. XE Tip Top Octagon, Scroll End	25.00	25 50	26.00	26 50	27 00
No. DEB100F	" No. F Tip Top Oval, Plain End	25.00	25 50	26 00	26 50	27 00
No. DEB100XF	" No. XF Tip Top Oval, Scroll End	25.00	25 50	26.00	26 50	27 00
No. DEB100BN	" No. BN Norleigh Diamond Oval, Plain End, Light Nor	25.00	25 50	26 00	26 50	27.00
No. DEB100HO	" No. HO Favorite Octagon, Plain End	24.00	24 50	25 00	25 50	26.00
No. DEB100EO	" No. EO Tip Top Octagon, Scroll End, Oak	24.00	24 50	25 00	25 50	26.00
No. DEB100LO	" No. LO Favorite Oval, Plain End, Oak	25.00	25 50	26.00	26 50	27.00

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



MICHIGAN PATTERN (AXE NO. DEB200)
Gun Metal Finish; Labeled
Wide Bit; Round Head

	Kind of Handle	Weights, Assorted 3¼	3½ 4½	4/5	4½ 5½
No. DEB200AAA	No. AAA Favorite Octagon, Plain End	$27 50	$28 00	$28 50	$29 00
No. DEB200BBB	With No. BBB Norleigh Diamond Oval, Plain End	27 50	28.00	28.50	29 00
No. DEB200A	—With No. A Norleigh Diamond Octagon, Scroll End	27.00	27.50	28 00	28 50
No. DEB200B	—With No. B Norleigh Diamond Oval, Scroll End	27.00	27.50	28 00	28 50
No. DEB200BN	—With No. BN Nor. Dia. Oval, Plain End, Light Nor	27 00	27.50	28 00	28 50
No. DEB200C	—With No. C Norleigh Octagon, Scroll End	26 00	26 50	27 00	27 50
No. DEB200D	—With No. D Norleigh Oval, Scroll End	26 00	26.50	27.00	27 50
No. DEB200DN	—With No. DN Favorite Oval, Plain End, Light Nor	26 00	26 50	27 00	27 50
No. DEB200FH	—With No. FH Favorite Octagon, Plain End	26 00	26 50	27 00	27 50
No. DEB200E	—With No. E Tip Top Octagon, Plain End	25 00	25 50	26 00	26 50
No. DEB200XE	—With No. XE Tip Top Octagon, Scroll End	25 00	25 50	26 00	26 50
No. DEB200F	" No. F Tip Top Oval, Plain End	25.00	25 50	26 00	26 50
No. DEB200XF	" No. XF Tip Top Oval, Scroll End	25.00	25.50	26.00	26 50
No. DEB200BN	" No. BN Norleigh Diamond Oval, Plain End, Light Nor	25 00	25.50	26.00	26 50
No. DEB200HO	" No. HO Favorite Octagon, Plain End	24 00	24.50	25.00	25 50
No. DEB200EO	" No. EO Tip Top Octagon, Scroll End, Oak	24 00	24.50	25.00	25 50
No. DEB200LO	" No. LO Favorite Oval, Plain End, Oak	25.00	25.50	26.00	26 50

Packed One Dozen Assorted in a Crate; Average Weight per Crate 75 lbs

SINGLE BIT AXES

*DIAMOND EDGE

Hand Made; Black Forged Finish; Etched

DIAMOND EDGE Axes are Recognized as being the Best Made. They are **Hand Tempered** by an Improved Process. Every Axe Carefully Tested Before Leaving the Factory. This Practically Prevents [illegible] Cutting Edge Protecting the User. It Also Insures [illegible] without which an Axe will not Hold a Fine, Sharp Cutting Edge.

Highest Grade **Crucible Steel** Bit, Carefully Tempered and Ground. Soft Steel Body. The **Eyes are Punched** from Solid Steel and will not Stretch nor Break, as Occurs with Axes having a Rolled or Welded Eye. The **Eye is Tapered** from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents Splitting

In Ordering Axes on this Page, Give Numbers and Weights Only

UNHANDLED

Hand Made Black Forged Finish; Etched

No. DEH193—DAYTON PATTERN
Wide Bit; Square Head

Weights, Assorted	3 4	3' 4',	4 5	4', 5',
Per Dozen	$23 00	23 50	24 00	24 50

No. DEH200—MICHIGAN PATTERN
Wide Bit; Round Head

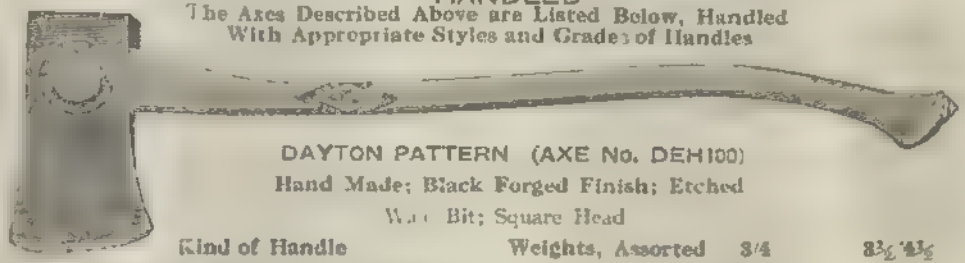
Weights, Assorted	3 4	3' 4',	4 5	4', 5',
Per Doz	$23 00	23.50	24 00	24 50

One Dozen of Each Assortment in a Case; Average Weight per Case 55 lbs.

HANDLED

The Axes Described Above are Listed Below, Handled With Appropriate Styles and Grades of Handles

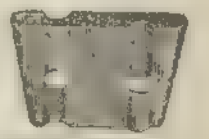
THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



DAYTON PATTERN (AXE No. DEH100)

Hand Made; Black Forged Finish; Etched

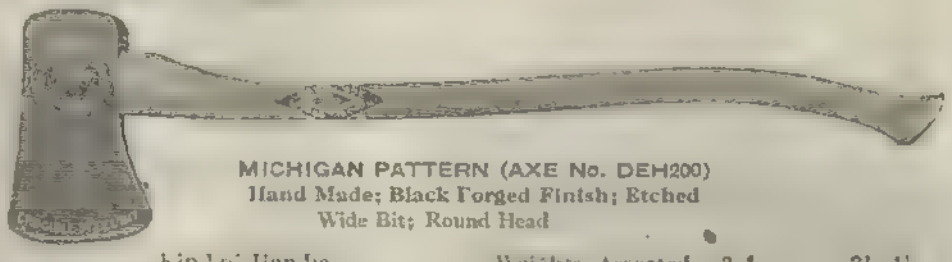
Wide Bit; Square Head



DIAMOND EDGE Axe [illegible] Axes
Full Description on Page 3

Kind of Handle	Weights, Assorted	3/4	3 3/4, 4 3/4	4, 5	4 3/4, 5 3/4
No. DEH100AAA—With No. AAA Norleigh Diamond Octagon, Plain End	Per Dozen	$30.50	$31.00	$31.50	$32.00
No. DEH100BBB—With No. BBB Norleigh Diamond Oval, Plain End	"	30.50	31.00	31.50	32.00
No. DEH100A [illegible]	"	30.00	30.50	31 00	31.50
No. DEH100B [illegible]	"	30 00	30 50	31 00	31.50
No. DEH100BN—With No. BN Nor. Dia. Oval, Plain End, Lt. North ..	"	30 00	30.50	31.00	31.50
No. DEH1000 [illegible]	"	29.00	29.50	30 00	30 50
No. DEH100D [illegible]	"	29 00	29.50	30.00	30 50
No. DEH100DN [illegible] Light Northern	"	29.00	29 50	30 00	30.50
No. DEH100EH [illegible]	"	29.00	29.50	30 00	30 50
No. DEH100I [illegible]	"	29 00	28.50	29 00	29.50
No. DEH100XF [illegible] Pattern	"	28.00	28.50	29.00	29 50
No. DEH100I [illegible]	"	28 00	28 50	29 00	29 50
No. DEH100XF—With No. XF Tip Top Oval, Straight Pattern.....	"	28.00	28.50	29.00	29.50
No. DEH100I LN [illegible] Light Northern	"	28 00	28 50	29.00	29.50
No. DEH100I [illegible] No. L Mound City Oval, Plain End.	"	27.00	27.50	28.00	28.50
No. DEH100IO [illegible] Oval, Scroll End, Oak	"	28.00	28.50	29.00	29.50
No. DEH100IO [illegible] Oak	"	28.00	28.50	29.00	29.50
No. DEH100P, O [illegible]	"	27.00	27.50	28.00	28.50

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



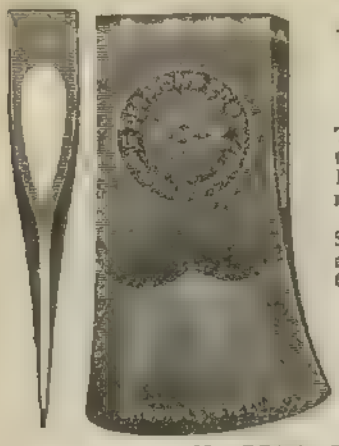
MICHIGAN PATTERN (AXE No. DEH200)

Hand Made; Black Forged Finish; Etched

Wide Bit; Round Head

Kind of Handle	Weights, Assorted	3 4	3' 4',	4 5	4', 5',
No. DEH200AAA—With No. AAA Norleigh Diamond Octagon, Plain End.	Per Dozen	$30.50	$31.00	$31. 0	$32 00
No. DEH200BBB [illegible]	"	30 50	31 00	31 50	32 00
No. DEH200A [illegible]	"	30 00	30 50	31 00	31.50
No. DEH200B [illegible]	"	30 00	30 50	31.00	31 50
No. DEH200BN [illegible] Light Northern	"	30.00	30 0	31 00	31 50
No. DEH2000 [illegible]	"	29 00	29.50	30 00	30 50
No. DEH200D [illegible]	"	29 00	29 50	30 00	30.50
No. DEH200DN [illegible] Light Northern	"	29 00	29.50	30 00	30.50
No. DEH200EH [illegible]	"	29.00	29 50	30 00	30.50
No. DEH200I [illegible]	"	28.00	28.50	29.00	29 50
No. DEH200XF [illegible]	"	28.00	28.50	29.00	29 50
No. DEH200I [illegible]	"	28 00	28 50	29.00	29 50
No. DEH200XF [illegible]	"	28.00	28.50	29.00	29.50
No. DEH200I LN [illegible] Light Northern	"	28.00	28.50	29.00	29 50
No. DEH200I [illegible] No. L Mound City Oval, Plain End.	"	27.00	27.50	28.00	28 50
No. DEH200IO [illegible] Oak, Scroll End. Oak.....	"	28 00	28.50	29.00	29 50
No. DEH200IO [illegible] Oak, Plain End. Oak.....	"	28.00	28.50	29.00	29 50
No. DEH200P, O [illegible] Mound City Oval, Plain End	"	27 00	27 50	28 00	28 50

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.



SINGLE BIT AXES

*DIAMOND EDGE

Gold Bronzed Body; Polished Bit and Head

DIAMOND EDGE Axes are Recognized as Being the Best Made. They are **Hand Tempered** by an Improved Process. Every Axe Carefully Tested Before Leaving the Factory. This Practically Prevents Axes with Flaws or Soft Cutting Edges Reaching the User. It also Insures Uniformity of Temper, without which an Axe will not Hold a Fine, Sharp Cutting Edge.

Highest Grade **Crucible Steel** Bit, Carefully Tempered and Ground. Soft Steel Body. The **Eyes are Punched** from Solid Steel and will not Stretch nor Break, as Occurs with Axes having Rolled or Welded Eye. **The Eye is Tapered** from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting.

In Ordering Axes on this Page, Give Numbers and Weights Only

UNHANDLED

Gold Bronzed and Labeled; Polished Bit and Head

No. DE100—DAYTON PATTERN
Wide Bit; Square Head

Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½	4½ 6
Per Dozen	$20 00	20 50	21.00	21 50	22 00

No. DE200—MICHIGAN PATTERN
Wide Bit; Round Head

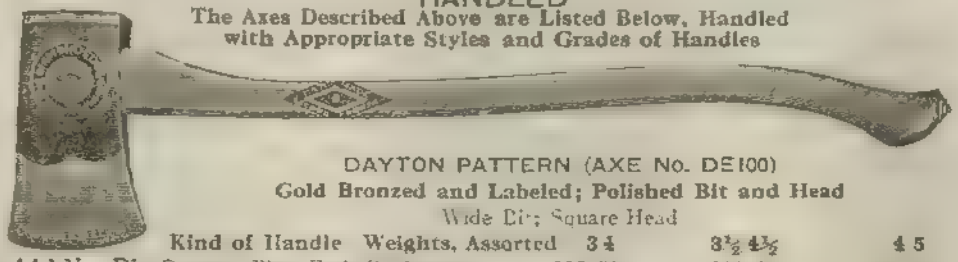
Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
Per Dozen	$20 00	20.50	21 00	21 50

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



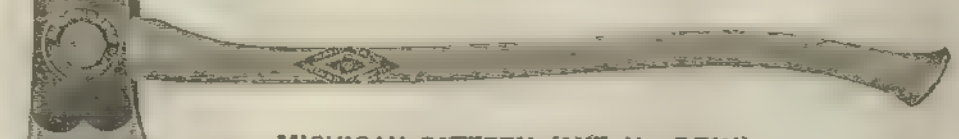
DIAMOND EDGE Axe Wedge Used in all Our Handled Axes. Full Description on Page 3

DAYTON PATTERN (AXE No. DE100)

Gold Bronzed and Labeled; Polished Bit and Head
Wide Bit; Square Head

	Kind of Handle	Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½	4½ 6
No. DE100AAA	—With No. AAA Nor. Dia., Octagon, Plain End,	Per Dozen	$27.50	$28 00	$28 50	$29 00	$29 50
No. DE100BBB	With No. BBB Norleigh Diamond Oval, Plain End,	"	27.50	28 00	28 50	29 00	29 50
No. DE100A	—With No. A Norleigh Diamond Octagon, Scroll End,	"	27 00	27.50	28 00	28 50	29 00
No. DE100B	—With No. B Norleigh Diamond Oval, Scroll End....	"	27.00	27.50	28 00	28 50	29.00
No. DE100BN	—With No. BN Nor. Dia. Oval, Plain End, Lt. North.	"	27.00	27 50	28 00	28 50	29 00
No. DE100C	—With No. C Favorite Octagon, Scroll End.	"	26 00	26 50	27 00	27 50	28 00
No. DE100D	With No. D Favorite Oval, Scroll End., ...	"	26 00	26.50	27.00	27 50	28 00
No. DE100DN	With No. DN Favorite Oval, Plain End, Light North.	"	26 00	26 50	27 00	27 50	28 00
No. DE100FH	With No. FH Favorite Octagon, Plain End	"	26 00	26 50	27 00	27 50	28 00
No. DE100E	—With No. E Tip Top Octagon, Plain End .	"	25 00	25 50	26 00	26 50	27 00
No. DE100XE	With No. XE Tip Top Octagon, Straight Pattern	"	25 00	25 50	26 00	26 50	27.00
No. DE100F	—With No. F Tip Top Oval, Plain End.....	"	25 00	25 50	26.00	26.50	27.00
No. DE100XF	—With No. XF Tip Top Oval, Straight Pattern	"	25 00	25 50	26 00	26 50	27 00
No. DE100TTN	With No. TTN Tip Top Oval, Plain End, Light North.	"	25 00	25 50	26 00	26 50	27.00
No. DE100L	—With No. L Mound City Oval, Plain End	"	24 00	24 50	25 00	25 50	26 00
No. DE100PLO	With No. PLO Mound City Octagon, Plain End	"	24 00	24 50	25 00	25 50	26 00
No. DE100FO	—With No. FO Favorite Oval, Scroll End, Oak	"	25 00	25 50	26 00	26 50	27 00
No. DE100LO	With No. LO Live Oak Oval, Plain End, Oak	"	25 00	25 50	26 00	26 50	27 00

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



Cut shows Handle broken Open to show the **Two Round** Slivers Cut by Wedge

MICHIGAN PATTERN (AXE No. DE200)

Gold Bronzed and Labeled; Polished Bit and Head
Wide Bit; Round Head

	Kind of Handle	Weights, Assorted	3/4	3½/4½	4/5	4½/5½
No. DF200AAA	—With No. AAA Norleigh Diamond, Octagon, Plain End	Per Dozen	$27.50	$29.00	$28.50	$29.00
No. DE200BBB	With No. BBB Norleigh Diamond Oval, Plain End	"	27.50	28.00	28 50	29 00
No. DE200A	—With No. A Norleigh Diamond Octagon, Scroll End	"	27.00	27.50	28.00	28.50
No. DE200B	—With No. B Norleigh Diamond Oval, Scroll End	"	27.00	27.50	28.00	28.50
No. DE200BN	—With No. BN Norleigh Diamond Oval, Plain End, Lt. Northern	"	27.00	27.50	28.00	28.50
No. DE200C	—With No. C Favorite Octagon, Scroll End	"	26.00	26.50	27.00	27.50
No. DE200D	—With No. D Favorite Oval, Scroll End	"	26.00	26.50	27 00	27 50
No. DE200DN	—With No. DN Favorite Oval, Plain End Light Northern	"	26.00	26.50	27.00	27.50
No. DE200FH	With No. FH Favorite Octagon, Plain End	"	26.00	26 50	27.00	27.50
No. DE200E	—With No. E Tip Top Octagon, Plain End	"	25.00	25.50	26.00	26.50
No. DE200XE	With No. XE Tip Top Octagon, Straight Pattern	"	25.00	25.50	26 00	26.50
No. DE200F	—With No. F Tip Top Oval, Plain End.	"	25.00	25 50	26 00	26 50
No. DE200XF	With No. XF Tip Top Oval, Straight Pattern	"	25.00	25 50	26 00	26 50
No. DE200TTN	—With No. TTN Tip Top Oval, Plain End Light Northern	"	25.00	25.50	26 00	26 50
No. DE200L	—With No. L Mound City Oval, Plain End	"	24.00	24.50	25 00	25 50
No. DE200PLO	With No. PLO Mound City Octagon, Plain End	"	24.00	24.50	25 00	25 50
No. DE200FO	—With No. FO Favorite Oval, Scroll End, Oak	"	25.00	25.50	26 00	26.50
No. DE200LO	—With No. LO Live Oak, Plain End Oak	"	25.00	25.50	26.00	26 50

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

SINGLE BIT AXES

*DIAMOND EDGE

Gold Bronzed Body; Polished Bit and Head

DIAMOND EDGE Axes are Recognized as Being the Best Made. They are Hand Tempered by an Improved Process. Every Axe Carefully Tested Before Leaving the Factory. This Practically Prevents Axes with Flaws or Soft Cutting Edges Reaching the User. It Also Insures Uniformity of Temper, Without Which an Axe will not Hold a Fine, Sharp Cutting Edge. Highest Grade Crucible Steel Bit, Carefully Tempered and Ground. Soft Steel Body. The Eyes are Punched from Solid Steel and will not Stretch nor Break, as Occurs with Axes Having a Rolled or Welded Eye. The Eye is Tapered from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting.

In Ordering Axes on this Page, Give Numbers and Weights Only.

UNHANDLED

Gold Bronzed and Labeled; Polished Bit and Head

No. DE125—YANKEE PATTERN

	Wide Bit; Narrow Square Head		
Weights, Assorted	**3 4**	**3½ 4**	**3½ 4½**
Per Dozen.....	**$20.00**	**20.50**	**21.00**

No. DE225—MICHIGAN NORTHERN PATTERN

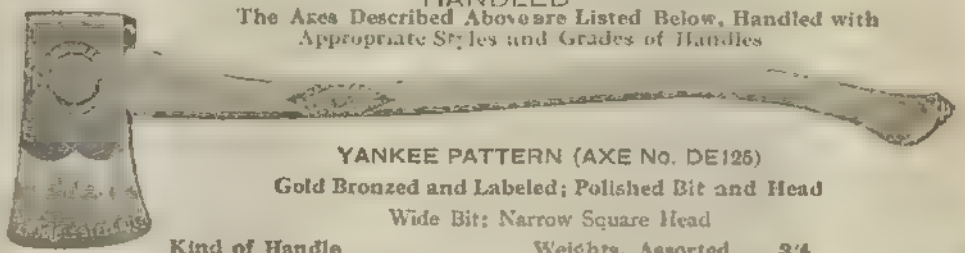
	Narrow Bit; Oval, Light Head		
Weights, Assorted	**3 4**	**3½ 4½**	**4 5**
Per Dozen.....	**$20.00**	**20.50**	**21.00**

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



DIAMOND EDGE Axe Wedge Used in All Our Handled Axes. Full Description on Page 3

YANKEE PATTERN (AXE No. DE125)

Gold Bronzed and Labeled; Polished Bit and Head

Wide Bit; Narrow Square Head

Kind of Handle	Weights, Assorted	3 4	3½ 4	3½ 4½
No. DE125AAA—With No. AAA Norleigh Diamond Octagon, Plain End	**Per Dozen**	**$27.50**	**$28.00**	**$28.50**
No. DE125BBB—With No. BBB Norleigh Diamond Oval, Plain End	"	**27.50**	**28.00**	**28.50**
No. DE125A—With No. A Norleigh Diamond Octagon, Scroll End	"	**27.00**	**27.50**	**28.00**
No. DE125B—With No. B Norleigh Diamond Oval, Scroll End	"	**27.00**	**27.50**	**28.00**
No. DE125BN—With No. BN Norleigh Diamond Oval, Plain End, Light Northern	"	**27.00**	**27.50**	**28.00**
No. DE125C—With No. C Favorite Octagon, Scroll End	"	**26.00**	**26.50**	**27.00**
No. DE125D—With No. D Favorite Oval, Scroll End	"	**26.00**	**26.50**	**27.00**
No. DE125DN—With No. DN Favorite Oval, Plain End, Light Northern	"	**26.00**	**26.50**	**27.00**
No. DE125FH—With No. FH Favorite Octagon, Plain End	"	**26.00**	**26.50**	**27.00**
No. DE125E—With No. E Tip Top Octagon, Plain End	"	**25.00**	**25.50**	**26.00**
No. DE125XE—With No. XE Tip Top Octagon, Straight Pattern	"	**25.00**	**25.50**	**26.00**
No. DE125F—With No. F Tip Top Oval, Plain End	"	**25.00**	**25.50**	**26.00**
No. DE125XF—With No. XF Tip Top Oval, Straight Pattern	"	**25.00**	**25.50**	**26.00**
No. DE125FTN—With No. FTN Tip Top Oval, Plain End, Light Northern	"	**25.00**	**25.50**	**26.00**
No. DE125L—With No. L Mound City Oval, Plain End	"	**24.00**	**24.50**	**25.00**
No. DE125PLO—With No. PLO Mound City Octagon, Plain End	"	**24.00**	**24.50**	**25.00**
No. DE125SO—With No. SO Favorite Oval, Scroll End, Oak	"	**25.00**	**25.50**	**26.00**
No. DE125LO—With No. LO Live Oak Oval, Plain End Oak	"	**25.00**	**25.50**	**26.00**

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

MICHIGAN NORTHERN PATTERN (AXE DE225)

Gold Bronzed and Labeled; Polished Bit and Head

Narrow Bit; Oval, Light Head

Kind of Handle	Weights, Assorted	3 4	3½ 4½	4 5
No. DE225AAA—With No. AAA Norleigh Diamond Octagon, Plain End	**Per Dozen**	**$27.50**	**$28.00**	**$28.50**
No. DE225BBB—With No. BBB Norleigh Diamond Oval, Plain End	"	**27.50**	**28.00**	**28.50**
No. DE225A—With No. A Norleigh Diamond Octagon, Scroll End	"	**27.00**	**27.50**	**28.00**
No. DE225B—With No. B Norleigh Diamond Oval, Scroll End	"	**27.00**	**27.50**	**28.00**
No. DE225BN—With No. BN Norleigh Diamond Oval, Plain End, Light Northern	"	**27.00**	**27.50**	**28.00**
No. DE225C—With No. C Favorite Octagon, Scroll End	"	**26.00**	**26.50**	**27.00**
No. DE225D—With No. D Favorite Oval, Scroll End	"	**26.00**	**26.50**	**27.00**
No. DE225DN—With No. DN Favorite Oval, Plain End, Light Northern	"	**26.00**	**26.50**	**27.00**
No. DE225FH—With No. FH Favorite Octagon, Plain End	"	**26.00**	**26.50**	**27.00**
No. DE225E—With No. E Tip Top Octagon, Plain End	"	**25.50**	**25.50**	**26.00**
No. DE225XE—With No. XE Tip Top Octagon, Plain End, Straight Pattern	"	**24.00**	**24.50**	**25.00**
No. DE225F—With No. F Tip Top Oval, Plain End	"	**24.00**	**24.50**	**25.00**
No. DE225XF—With No. XF Tip Top Oval, Plain End Straight Pattern	"	**24.00**	**24.50**	**25.00**
No. DE225FTN—With No. FTN Tip Top Oval, Plain End, Light Northern	"	**24.00**	**24.50**	**25.00**
No. DE225L—With No. L Mound City Oval, Plain End	"	**24.00**	**24.50**	**25.00**
No. DE225PLO—With No. PLO Mound City Octagon, Plain End	"	**24.00**	**24.50**	**25.00**
No. DE225FO—With No. FO Favorite Oval, Scroll End, Oak	"	**25.00**	**25.50**	**26.00**
No. DE225LO—With No. LO Live Oak, Plain End, Oak	"	**25.00**	**25.50**	**26.00**

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

SINGLE BIT AXES

NOTE—In Ordering Axes on this Page it is Necessary to Only Specify Numbers and Weights

★DIAMOND EDGE

Highest Grade Crucible Steel Bit Carefully Tempered and Ground. The Eyes are Punched from Solid Steel and will not Stretch nor Break as Axes with Axes Having a Round Welded Eye. The Eye is Tapered from the Center to the Ends; the Bolster the Handle Firmly and Prevents its Splitting.

No. DEB300 SOUTHERN KENTUCKY PATTERN; Black Gun Metal Finish; Labeled; Narrow Bit; Square Head.

UNHANDLED

Weights, Assorted	3/4	3½ 4½	4/5	4½ 5½	4½ 6
Per Dozen	$20.00	20.50	21.00	21.50	22.00

One Dozen of Each Assortment of Weights in a Box, Average Weight per Box 55 lbs.

★DIAMOND EDGE

Highest Grade Crucible Steel Bit Carefully Tempered and Ground. The Eyes are Punched from Solid Steel and will not Stretch nor Break as Axes with Axes Having a Round Welded Eye. The Eye is Tapered from the Center to the Ends; the Bolster the Handle Firmly and Prevents its Splitting.

No. DEB325 BALTIMORE KENTUCKY PATTERN; Black Gun Metal Finish; Labeled; Wide Bit; Thick Square Head.

UNHANDLED

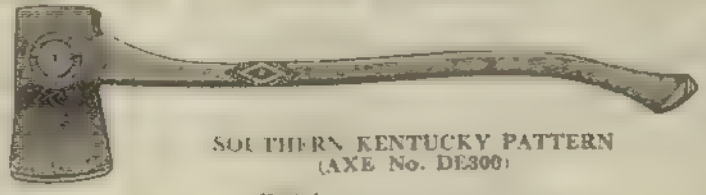
Weights, Assorted	3/4	3½ 4½	4/5	4½ 5½	4½ 6
Per Dozen	$20.00	20.50	21.00	21.50	22.00

One Dozen of Each Assortment of Weights in a Box, Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below Handled with Appropriate Styles and Grades of Handles.

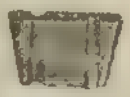
The DIAMOND EDGE Axe Wedge is Used in Handling This Axe. Full Description on Page 3.



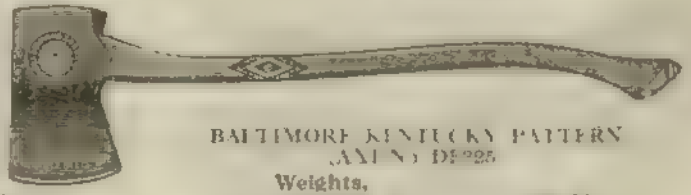
SOUTHERN KENTUCKY PATTERN
(AXE No. DE300)

Cut shows Handle Broken Open to show the Two Round Slivers Cut by Wedge.

Kind of Handle	Weights, Assorted 3/4	3½ 4½	4/5	4½ 5½	4½ 6
No. DEB300AAA—No. AAA Norleigh Diamond Octagon, Plain End Handle	$27.50	$28.00	$28.50	$29.00	$29.50
No. DEB300BBB—No. BBB Norleigh Diamond Oval, Plain End	27.50	28.00	28.50	29.00	29.50
No. DEB300A—No. A Norleigh Diamond Octagon, Straight End	27.00	27.50	28.00	28.50	29.00
No. DEB300B—No. B Norleigh Diamond Oval, Straight End	27.00	27.50	28.00	28.50	29.00
No. DEB300BN—No. BN Norleigh Diamond Oval, Plain End, Lt. Nor	27.00	27.50	28.00	28.50	29.00
No. DEB300C—No. C Favorite Octagon, Straight End	26.00	26.50	27.00	27.50	28.00
No. DEB300D—No. D Favorite Oval, Straight	26.00	26.50	27.00	27.50	28.00
No. DEB300DN—No. DN Favorite Oval, Plain End, Lt. Nor	26.00	26.50	27.00	27.50	28.00
No. DEB300EH—No. EH Favorite Octagon, Plain End	26.00	26.50	27.00	27.50	28.00
No. DEB300E—No. E Tip Top Octagon, Plain End	25.00	25.50	26.00	26.50	27.00
No. DEB300XE—No. XE Tip Top Octagon, Straight Pattern	25.00	25.50	26.00	26.50	27.00
No. DEB300F—No. F Tip Top Oval, Plain End	25.00	25.50	26.00	26.50	27.00
No. DEB300XF—No. XF Tip Top Oval, Straight Pattern	25.00	25.50	26.00	26.50	27.00
No. DEB300FLN—No. FLN Tip Top Oval, Plain End, Lt. Nor	25.00	25.50	26.00	26.50	27.00
No. DEB300I—No. I Monarch Oval, Plain End	24.00	24.50	25.00	25.50	26.00
No. DEB300IHO—No. IHO Monarch Oval Octagon, Plain End	24.00	24.50	25.00	25.50	26.00
No. DEB300LO—No. LO Live Oak Oval, Straight End, Oak	25.00	25.50	26.00	26.50	27.00
No. DEB300LO—No. LO Live Oak Oval, Plain End, Oak	25.00	25.50	26.00	26.50	27.00



The DIAMOND EDGE Axe Wedge is Used in Handling This Axe. Full Description on Page 3.

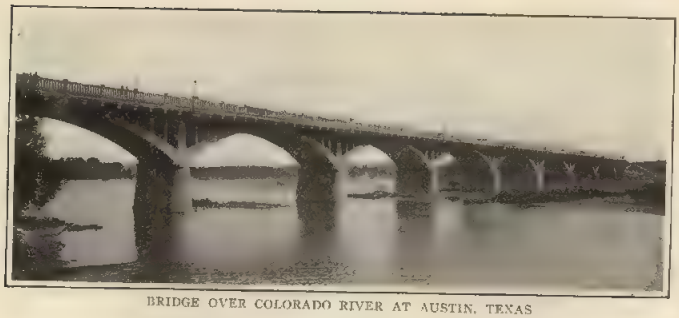


BALTIMORE KENTUCKY PATTERN
(AXE NO. DE325)

Cut shows Handle Broken Open to show the Two Round Slivers Cut by Wedge.

Kind of Handle	Weights, Assorted 3/4	3½ 4½	4/5	4½ 5½	4½ 6
No. DEB325AAA—No. AAA Norleigh Diamond Octagon, Plain End Handle	$27.50	$28.00	$28.50	$29.00	$29.50
No. DEB325BBB—No. BBB Norleigh Diamond Oval, Plain End	27.50	28.00	28.50	29.00	29.50
No. DEB325A—No. A Norleigh Diamond Octagon, Straight End	27.00	27.50	28.00	28.50	29.00
No. DEB325B—No. B Norleigh Diamond Oval, Straight End	27.00	27.50	28.00	28.50	29.00
No. DEB325BN—No. BN Norleigh Diamond Oval, Plain End, Lt. Nor	27.00	27.50	28.00	28.50	29.00
No. DEB325C—No. C Favorite Octagon, Straight End	26.00	26.50	27.00	27.50	28.00
No. DEB325D—No. D Favorite Oval, Straight End	26.00	26.50	27.00	27.50	28.00
No. DEB325DN—No. DN Favorite Oval, Plain End, Lt. Nor.	26.00	26.50	27.00	27.50	28.00
No. DEB325EH—No. EH Favorite Octagon, Plain End	26.00	26.50	27.00	27.50	28.00
No. DEB325E—No. E Tip Top Octagon, Plain End	25.00	25.50	26.00	26.50	27.00
No. DEB325XE—No. XE Tip Top Octagon, Straight End	25.00	25.50	26.00	26.50	27.00
No. DEB325F—No. F Tip Top Oval, Plain End	25.00	25.50	26.00	26.50	27.00
No. DEB325XF—No. XF Tip Top Oval, Straight End	25.00	25.50	26.00	26.50	27.00
No. DEB325FLN—No. FLN Tip Top Oval, Plain End, Lt. Nor	25.00	25.50	26.00	26.50	27.00
No. DEB325I—No. I Monarch Oval, Plain End	24.00	24.50	25.00	25.50	26.00
No. DEB325IHO—No. IHO Monarch Oval Octagon, Plain End	24.00	24.50	25.00	25.50	26.00
No. DEB325LO—No. LO Live Oak Oval, Straight End, Oak	25.00	25.50	26.00	26.50	27.00
No. DEB325LO—No. LO Live Oak Oval, Plain End, Oak	25.00	25.50	26.00	26.50	27.00

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.



BRIDGE OVER COLORADO RIVER AT AUSTIN, TEXAS

Esthetics in Bridge Design

Beauty and Harmony Now Considered Essential Features of Bridges

By Dr. J. A. L. Waddell
Consulting Engineer

ARTISTS and architects have formulated various tenets during the past centuries defining their conceptions of the artistic. To these the engineer must look for his first provisional standard for comparison, remembering their origin and the conditions attending it, as well as the general limitations surrounding any such standard.

The following precepts may be adopted:

1. A structure must be in harmony with its environment and not appear as an intrusion thereon.

2. Good general lines are first necessary as a basis, then a consistent scale or proportion of parts.

3. Mere ornamentation generally affronts the sense of harmony and fitness

4. Methods of nature always culminate in expressions of beauty. Methods of nature also culminate in the survival of the fittest. Hence our conceptions of beauty have as a basis functional efficiency.

5. Owing to man's mental inertia, the rigidity and immobility of the ideals established by old conditions prevent proper recognition of the progress of science and of the needed modifications in standards.

6. A form which admits of no explanation, or which is mere caprice, cannot be beautiful. It must have and show some purpose in its general relation.

7. Each part of any structure should be treated in such a way that its function therein shall be apparent and emphasized according to the importance of that function.

8. Such emphasis may be attained by decorative treatment indicating conventionally the character of the work accomplished by the part.

9. Different kinds of material used in structures call for different treatment and varying esthetic standards.

10. The present steel-trussed bridge is inherently ugly; but with the further perfecting of the science of bridge design, and a recognition of the fact that beauty is an aim and not an accident of growth, esthetic forms will be evolved.

The underlying thought connecting these precepts is that the structure must be fitted for the work it is to do, that it should express the truth, and that imitations and falsities are vicious and outside the realm of rational esthetics.

The Harmony of the Bridge with Its Environment

To secure harmony between the structure and its environment means the merging of its general outlines with those of the landscape. In this connection, it should be remembered that the bridge will likely be seen from various angles, and that each viewpoint will cause its own individual impression. In case of conflicting impressions, it becomes a matter of good judgment as to which should control. The merging of outlines can usually be secured by attention to the approaches, by extending

the hand-rails beyond the structure proper, or by curving the wing-walls of the abutments. A small arch or girder span can often be given dignity by lengthening the approach walls or hand-rails.

Symmetry of Spans

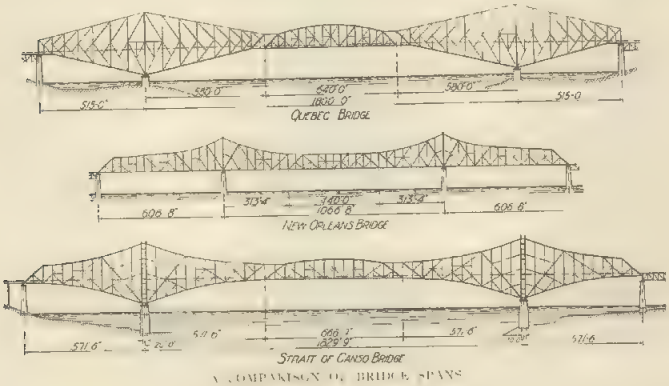
There is no feature of a bridge so pleasing to the eyes of all observers as perfect symmetry in the layout of spans. Unfortunately, conditions are not always favorable to perfect symmetry of design, for the bed-rock will often dip rapidly and thus necessitate the use of spans of different lengths, and the channel of the river often refuses to keep at midstream, persisting in hugging one shore. In such cases it becomes necessary to do the best one can with the unfavorable conditions and to make the structure sightly, if not symmetrical. Any divergence from symmetry and regularity for which there is a self-evident reason produces no unfavorable impression upon the beholder, altho it may be sufficient cause for failure to excite his admiration for the structure. If one can see at a glance the *raison d'être* of all the principal parts and peculiar features of a bridge, his sense of fitness will be satisfied and his general impression will be favorable; but the nearer the approach to perfect symmetry and the more artistic the outlines, the more thoro will be his appreciation of the general effect of the structure.

Monotony of Outline Should Be Relieved

The outline of a bridge should not be monotonously straight; nor should changes in outline be too abrupt, unless there is an apparent reason therefor, such, for instance, as a heavy intervening mass of pier. The best effects are secured by outlines changing by easy transition from one form to another. In case of simple truss spans, a polygonal top chord giving the effect of a smooth curve adds much to the pleasing effect as well as to the economy. The harsh outlines of a cantilever bridge can generally be relieved by making the chords simulate a curve. Most cantilevers offend in this respect.

As evidence that it is possible to make cantilever bridges esthetic, there is shown on page 213 a study of the author's proposed bridge across the entrance channel to the harbor of Havana, Cuba. It is submitted that the outlines have a graceful appearance, and the layout is quite economic; for the distance from center to center of main piers was fixed by local conditions, and it was found advisable to make the suspended span as long as practicable in order to provide a wide opening for the full clear headway.

The last design of the Quebec Bridge submitted by the commission of engineers is inferior in esthetics to the design of the structure which failed, as the chords of the



A COMPARISON OF BRIDGE SPANS

former are in straight lines which intersect each other abruptly. The ends of the structure also offend the eye by their abrupt termination. By making some slight changes in the outline it would have been practicable to improve greatly the appearance. Comparing that design with the design of the proposed New Orleans Bridge, by the late Dr. E. L. Corthell, C. E., one is struck by the superior appearance of the latter. It is true that the main span is much shorter, being only one thousand feet long, as against eighteen hundred feet in the Quebec Bridge, nevertheless that does not militate seriously against the legitimate drawing of a comparison of the esthetics of the two structures.

In 1904 the author made a study for a proposed cantilever railway bridge across the Strait of Canso, Nova Scotia. The main span was eighteen hundred and thirty feet long—just thirty feet longer than that of the Quebec Bridge. In the author's design the feature of artistic appearance was given full consideration, and the layout was made as esthetic as the limitations of his personal experience and taste permitted. In order that the reader may compare for himself the three layouts mentioned, they are reproduced and shown together herewith.

Exclude Unnecessary Ornamental Portals

In many bridges what would otherwise be a pleasing outline is spoiled by the introduction of massive ornamental portals at the ends and intrusive towers at the intermediate piers. European bridges offend in this respect more than American structures. Examples of this are the Tower Bridge at London, the Rhine Bridge, Mainz, and the Worms Highway Bridge over the Rhine. A comparison of the general lines of these bridges with those of the Brooklyn Bridge, the Eads Bridge at St. Louis, the Chestnut Street Bridge over the Schuylkill River at Philadelphia, and the Washington Bridge over the Harlem River in New York City, results greatly to the advantage of the American designs, mainly because of their simplicity as contrasted with the over-ornamentation of the European structures.

The Sense of Proportion in Bridges

In addition to adopting a pleasing outline or profile for the bridge, attention must also be paid to the scale or proportion of the parts. Habit plays an important rôle in our conception of proper scale or relation of things. Those proportions which by long usage we have become accustomed to we regard as fitting and pleasing, so that a departure from such recognized standards is often confusing and disappointing When a new structural material with different physical properties is introduced, a scientific and consistent use of it offends our preconceived idea of scale and proportion, until we have become habituated to its rational utilization and thus have modified our former conception of harmonious proportions.

Justifiable Ornamentation

Ornamentation can have no other justification than that it serves to render clear or to emphasize the function of a member in the structure. Distinction must be made between appropriate and inappropriate, necessary and unnecessary, expensive and inexpensive decoration. If a bridge is to be located where it will be seen constantly by many people, it is well to spend extra money to make it sightly, beautiful, in keeping with its surroundings; but when it is to be placed in a dense forest or on a sandy desert where it would seldom be seen, it would be folly to spend any more on its construction than is called for by the engineering requirements of the conditions, due allowance being made, of course, for a possible peopling of the forest or desert in the not very distant future.

Functional efficiency—the ability of any member or detail to perform the duty assigned it in an efficacious way—is a most valuable criterion. If any part can be rendered more efficient by a modification, then such a change is to be made. It may mean that our esthetic standard will require some readjustment, but the ultimate outcome will be a harmonizing of that standard with the attainment of maximum efficiency. Take as an example the case of curved struts There have been advocates of such, and even users thereof, in large and important bridges; yet to the mind trained in stress analysis this is a monstrosity not to be tolerated. As a better understanding and greater appreciation of the principles of mechanics come to the layman, a change in his standard will take place.

The introduction of unnecessary parts or

forms that have no apparent or sufficient purpose or connection with the structure is to be avoided. These detract from the fundamental objective. An example of the violation of this principle is the Tower Bridge of London. This case has been well set forth by H. Heathcote Statham, Esq., Fellow of the Royal Institute of British Architects. The following quotation is made from his paper on "The Architectural Element in Engineering Works," published in the *Journal* of that Society of May 20, 1899:

"The Tower Bridge . . . represents the vice of tawdriness and pretentiousness, and of the falsification of the actual facts of the structure. It is stated that the exterior clothing was designed by an architect; he cannot have been a very eminent one, as we never hear his name; it looks to me more like what results from the advertisement we sometimes see—'Wanted immediately a draftsman; must be an expert Gothic hand'—it is draftsman's architecture. The exceedingly heavy suspension chains are made to appear to hang on an ornamental stone structure which they would in reality drag down, and the side walls of the apparently solid tower rest on part of the iron structure, and you could see under them before the roadway was made up. All architects would have much preferred the plain steel structure to this kind of a sham. If iron is designed on good lines, it will look better in itself without these gewgaws. We could not have a better example of this than the *Galerie des Machines* at Paris; an iron-roofed structure on the grandest scale, in which there is not a particle of decoration, and yet which is so fine and imposing in its effect that it deserves to be called a great work of architecture as well as of engineering."

The author, who has examined thoroly the Tower Bridge, endorses unequivocally these strictures of the eminent British architect. The structure has the honor of being the most monumental example of extravagance in bridge construction in the world. For but a small percentage of the entire cost of the bridge a far better and more effective structure could readily have been built.

Essential Parts Should Define Themselves

The discussion of this last principle leads by antithesis to the next one. If it is undesirable to have superfluous members or parts, then, on the other hand, those parts which are necessary should have that necessity made apparent by receiving such treatment as will fittingly proclaim their function and importance in the construction. Many structures otherwise satisfying fail in this respect, especially those of masonry and concrete. The introduction of reinforced concrete of late years has given an impetus to the building of arch spans, a type of structure that admits of esthetic treatment far more readily than do truss spans. Many arches fall short of their best effect just because sufficient attention has not been given to this principle of making evident the function and relative importance of each part of the structure. Their usual defects are as follows:

1. Failure to define the arch ring by letting it merge into the spandrel walls without any paneling for relief
2. Failure to define the skew backs or springing lines of the arch.
3. Failure to separate spandrel wall from the hand-rail by a belt course conforming with the grade of the roadway.
4. Failure to subordinate the hand-rail to the main part of the structure.
5. Failure to give the piers distinctiveness and the ignoring of the fact that the more important part of the pier is below the springing line.

Architectural Effect in American Bridges

The main portion of the improvement in architectural effect in American bridge engineering practice which has taken place in the last decade (and it is by no means inconsiderable) has come thru the extensive building of reinforced concrete structures. The following examples may serve to illustrate some of the progress in bridge esthetics that has been made by reason of this comparatively new material, which adapts itself so readily to the production of forms pleasing to the artistic sense of the beholder—at least, more strictly speaking, they will show what the author has been striving to do in order to improve the appearance of his structures.

The first illustration shows the Colorado River Bridge at Austin, Tex. It is situated on the main street of the city leading to the State Capitol. On that account it was urgent that the structure be made as sightly as the limited amount of the appropriation ($200,000) would permit. The bridge is 1,000 feet long and 50 feet wide. The pier foundations were somewhat expensive, involving the use of piles driven into rather hard material, so that it was a difficult matter to keep the cost within the appropriation. This was just barely accom-

PROPOSED BRIDGE OVER ENTRANCE OF HAVANA HARBOR, CUBA

plished; hence there was no money available for ornamentation. Perhaps this was just as well, for the simplicity of the design is probably its most pleasing attribute.

The Arroyo Seco Bridge in the city of Pasadena, Cal., is shown in the last illustration. In this case also the appropriation was small—too small, in fact, for several reasons. Curiously enough, the limit was exactly the same as that of the Austin Bridge, viz., $200,000, and no persuasion was effective in increasing the amount. It was questionable whether a proper structure could be designed so that the entire cost, including the engineering, could be kept within the limit; and to settle the question an outline of the design, with exceedingly full data for estimating the cost, was sent to the author's office and a complete detailed estimate prepared. It showed that the work could be done with a possible margin of $2,500. There was an unfortunate condition which governed the layout, namely, that if the structure were built entirely on tangent, the crossing of the stream bed would involve either a much longer span or a deeper pier than would a location a short distance below, for the bed-rock curved suddenly in plan from a wide to a narrow gorge. The engineers of the city who had studied quite carefully the conditions had laid out the center line of structure partly on tangent and partly on curve, so as to avoid the wide portion of the gorge. Objections to this plan were made, and an extra appropriation of $6,000 was asked for, but to no avail. The bridge was built by contract and just within the appropriation. Since completion, altho there are many in the city who point to the graceful curve at the end as a thing of beauty, many questions have been asked as to the reason for the curve

Notwithstanding this unavoidable flaw in the structure, the conditions of the surrounding scenery are so favorable to the

CONCRETE ARCH BRIDGE OVER ARROYO SECO CANYON, PASADENA, CAL.

development of esthetic construction, and the study of the layout was so effectively made, that residents and visitors alike are unanimous in their approval of the appearance of the structure.

New Materials Change Esthetic Standards

The advent of new material with different physical properties from those customarily used places the designer in the need of a new standard of esthetics. In developing such a standard, the fundamental criterion of fitness will be that of attaining the highest functional efficiency and employing it in the appearance of the entire construction. When this is attained, the old standards will gradually be made to conform to the new conditions.

In respect to the decoration, it is true that a little ornamentation is generally much better than a great deal, and that this little should be appropriate and in keeping with the general character of the structure. A prodigal use of cheap cast-iron trimmings at a portal of a steel bridge is not in good taste. Again, in large bridges it is proper to be somewhat extravagant in the use of metal at the portal for the sake of appearance, especially as such metal, if it does not add to the strength of the bridge, certainly increases its rigidity.

The ornamentation of viaducts and elevated railways is something which has never received in America any attention worth mentioning, as is proved by the inherent ugliness of many of the elevated roads of our great cities, and the painful plainness of our railway trestles thruout the country. It is principally this neglect of esthetics in design which has created such bitter opposition on the part of the property owners to the building of elevated roads in the heart of the city of Chicago.

Electric lights and gas fixtures of artistic pattern can be made great aids in securing a pleasing effect in designs for bridges and viaducts, and at night a well-studied distribution of incandescent lights can be made to produce a brilliant appearance at the portals of any large and important city bridge.

Ornamental hand-rails are also of great service in decorating trestles and bridges. While these hand-rails must appear as subordinate to the main body of the structure, they can be emphasized by paneling or open work. The posts separating the panels should be subordinate to the end posts. In small spans, the hand-rail should be of the open type in order not to make the span appear too massive and top-heavy. For large spans a solid hand-rail is desirable, in order to give more body to the profile of the bridge. A hand-rail should not terminate abruptly without some apparent cause. A curving or flaring of the hand-rails at the approaches of the bridge adds to the esthetic effect. If this cannot be accomplished, then some ornamental post of dignified size, suitably decorated and surmounted by an artistic lamp post, will be found very effective.

Bridge Approaches

The ornamentation of bridges by the adoption of elaborately artistic approaches has received but little attention in America, the reason being that any money so expended has evidently no utilitarian purpose, and consequently to the eye of the solely practical man appears to be entirely wasted. In Europe it is customary to ornament large and important bridges in this way, and the time is coming when it will be the practice in America also.

Conclusion

From an artistic point of view, it must be confessed that the average American bridge is inferior to the average European structure; hence, while it is advisable that American bridge designers study carefully European practice in respect to esthetics, they should be cautious to avoid thoughtless imitation; because decorative features which are appropriate to the heavy, massive and costly bridges of Europe would be out of place when grafted on some of the light, airy and economic structures that may still be considered as characteristic of American bridge engineering, altho there is a tendency nowadays in this country toward heavier construction

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Length 3⅝ inches; Polished Steel Rat Tail Bolsters, One Large Spear, One Small Pen and One File Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1⅝ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S151GST —Genuine Stag Handle	$20 00	No. 3E151GST Genuine Stag Handle	$22 00

Half Dozen in a Box

*DIAMOND EDGE

Length 3¼ inches; Fancy German Silver Biased Bolsters; Brass Lining, Damascus Steel, One Large Clip and Two Small Pen Blades, Half Polished and Etched; Weight per Dozen 1¾ lbs.

		Per Dozen
No. 3S398¾D	Gray Pearl Pyralin Handle	$22.00
No. 3S398 ¼J	Golden Pearl Pyralin Handle	22.00
No. 3S398¼ST	—Patent Stag Handle	21.00

Half Dozen in a Box

Cattle Knife, Length 3⅝ inches; German Silver Bolsters; One Large Clip, One Small Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining, German Silver Shield, Weight per Dozen 1½ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S69¾E Ebony Handle	$21 00	No. 3E69¾E —Ebony Handle	$21 00
No. 3S69 ¼ST Patent Stag Handle	21 00	No. 3E69 ¼B Buffalo Horn Handle	18 00
No. 3S69 ¼GST Genuine Stag Handle	23 00	No. 3E69 ¼ST Patent Stag Handle	21 00
No. 3S69P¾ Mother of Pearl Handle	42 00	No. 3E69 ¼GST Genuine Stag Handle	19 00
		No. 3E69 ¼P —Mother of Pearl Handle	42.00

Half Dozen in a Box

Length 3⅝ inches; German Silver Bolsters, One Large Clip, One Large Sheep Foot and One Large Pen Blade, Half Crocus Polished and Etched Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S473¼ST—Patent Stag Handle	$19 00	No. 3E473¼ST—Patent Stag Handle	$21.60

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EMPIRE

THREE BLADE JACKS

Cattle Knife; Length 3⅝ inches; German Silver Bolsters; One Large, Wide and Thick Spear and Two Large Pen Blades; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅝ lbs.

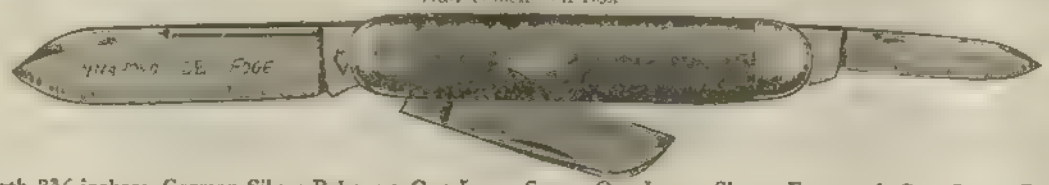
*DIAMOND EDGE		Per Dozen	*EMPIRE		Per Dozen
No. 3S307ST	Patent Stag Handle	$20 00	No. 3E307E	Ebony Handle	$20.00
			No. 3E307ST	Patent Stag Handle	24 00

*DIAMOND EDGE

Same as above except with Leather Punch and one small Pen Blade

No. 3S307¼E Genuine Ebony Handle ..... Per Dozen $24.00

Half Dozen in a Box



Cattle Knife; Length 3⅝ inches; German Silver Bolsters; One Large Spear, One Large Sheep Foot and One Large Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

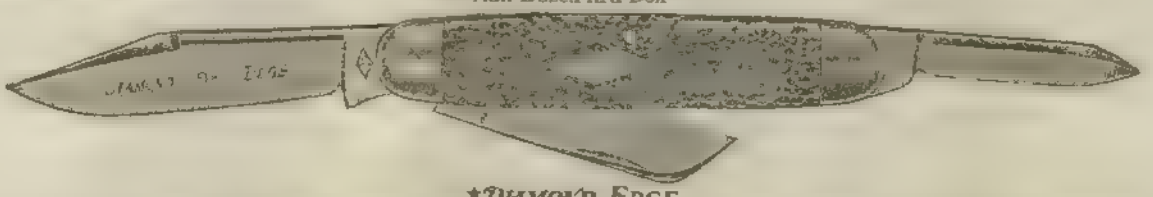
*DIAMOND EDGE		Per Dozen	*EMPIRE		Per Dozen
No. 3S67E	Ebony Handle	$20 00	No. 3E67E	Ebony Handle	$20 00
No. 3S67ST	Patent Stag Handle	20 00	No. 3E67ST	Patent Stag Handle	20.00
No. 3S67P	—Pearl Handle	40 00	No. 3E67P	—Pearl Handle	40.00

Half Dozen in a Box

Cattle Knife; Length 3⅝ inches; German Silver Bolsters; One Large Spaying, One Large Sheep Foot and One Large Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅝ lbs.

*DIAMOND EDGE		Per Dozen	*EMPIRE		Per Dozen
No. 3S93⅝ST	Patent Stag Handle	$22 00	No. 3E93⅝ST	Patent Stag Handle	$22 00

Half Dozen in a Box

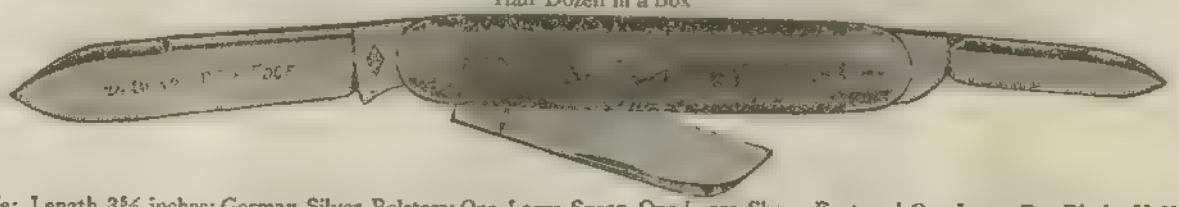


*DIAMOND EDGE

Cattle Knife; Length 3⅝ inches; German Silver Bolsters; One Large Spay, One Large Sheep Foot and One Large Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅝ lbs.

		Per Dozen			Per Dozen
No. 3S108¼ST	Patent Stag Handle	$21 00	No. 3S108¼P	—Pearl Handle	$44 00

Half Dozen in a Box



Cattle Knife; Length 3⅝ inches; German Silver Bolsters; One Large Spear, One Large Sheep Foot and One Large Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅝ lbs.

*DIAMOND EDGE		Per Dozen	*EMPIRE		Per Dozen
No 3S108E	Ebony Handle	$13 50			
No. 3S108ST	Patent Stag Handle	21 00	No. 3E108ST	Patent Stag Handle	$21.00
No. 3S108GST	Genuine Stag Handle	25 00	No 3E108GST	Genuine Stag Handle	25 00
No. 3S108P	Mother of Pearl Handle	44 00	No 3E108P	Mother of Pearl Handle	44.00

Half Dozen in a Box

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POCKET KNIVES

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EMPIRE

THREE BLADE JACKS

Cattle Knife. Length 3½ inches, German Silver Bolsters, One Large Clip, One Small Spaying and One Small Sheep Foot Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 20 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S253½B Genuine Buffalo Horn Handle	$21 60	No. 3E253½B —Genuine Buffalo Horn Handle	$21 60
No. 3S253½ST—Patent Stag Handle	20 00	No. 3E253½ST—Patent Stag Handle	20 00
No. 3S253½P —Mother of Pearl Handle	35 00	No. 3E253½P Mother of Pearl Handle	35 00

Half Dozen in a Box

Cattle Knife. Length 3½ inches, German Silver Bolsters; One Large Clip, One Large Spaying and One Large Sheep Foot Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1⅝ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S68½ST—Patent Stag Handle	$19.20	No. 3E68½ST—Patent Stag Handle	$19.20

Half Dozen in a Box

Cattle Knife. Length 3½ inches, German Silver Bolsters, One Large Clip, One Large Spaying and One Large Sheep Foot Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S311½ST Patent Stag Handle	$21 60	No. 3E311½ST Patent Stag Handle	$21 60
No. 3S311½P —Mother of Pearl Handle	40 00	No. 3E311½P —Mother of Pearl Handle	40 00

Half Dozen in a Box

*DIAMOND EDGE

Length 3½ inches, Brass German Silver Bolsters, Nickel Silver Lined, Ivory Handles, One Large Clip, One Small Spaying and One Small Pen Blade; Half Polished and Etched; Weight per Dozen 2 lbs.

	Per Dozen
No. 3S397¾J —Golden Pearl Pyralin Handle	$26.00
No. 3S397¾D —Gray Pearl Pyralin Handle	26.00
No. 3S397¾ST Patent Stag Handle	24 00
No. 3S397¾P —Mother of Pearl Handle	40 00

Half Dozen in a Box

*DIAMOND EDGE

Cattle Knife. Length 3½ inches, German Silver Bolsters; Brass Lined, One Large Spaying and One Large Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1⅝ lbs.

	Per Dozen		Per Dozen
No. 3S293ST—Patent Stag Handle	$15 60	No. 3S293P—Mother of Pearl Handle	$26.00

Half Dozen in a Box

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EMPIRE

THREE BLADE JACKS

Cattle Knife; Length 3⅝ inches, German Silver Bolsters; One Large Clip, One Large Speying and One Large Sheep Foot Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S183⅝B —Genuine Buffalo Horn Handle	$22 00	No. 3E183⅛B —Genuine Buffalo Horn Handle	$22 00
No. 3S183⅝ST—Patent Stag Handle	22 00	No. 3E183⅛ST Patent Stag Handle	22 00
No. 3S183⅝P —Mother of Pearl Handle	46 00	No. 3L183⅛P —Mother of Pearl Handle	38 00

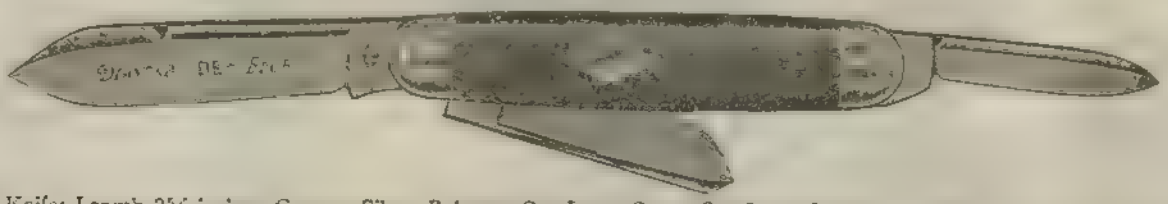
Half Dozen in a Box

*DIAMOND EDGE

Cattle Knife; Length 3⅝ inches; German Silver Bolsters; One Large Clip, One Large Speying and One Large Pen Blade; Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 2⅝ lbs.

	Per Dozen		Per Dozen
No. 3S109⅝ST—Patent Stag Handle	$21 00	No. 3S109⅝P—Mother of Pearl Handle	$44.00

Half Dozen in a Box



Real Cattle Knife; Length 3⅝ inches; German Silver Bolsters; One Large Spear, One Large Speying and One Large Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅛ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S109E —Ebony Handle	$21 00	No. 3E109E —Ebony Handle	$21 00
No. 3S109ST—Patent Stag Handle	21 60	No. 3E109ST—Patent Stag Handle	21 60
No. 3S109P Mother of Pearl Handle	44 00	No. 3L109P Mother of Pearl Handle	44.00

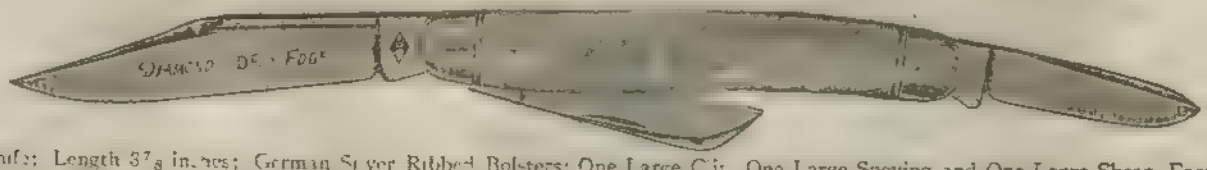
Half Dozen in a Box

*DIAMOND EDGE

Cattle Knife; Length 3⅝ inches, German Silver Bolsters; One Large Spear, One Large Clip and One Large Speying Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2¼ lbs

	Per Dozen		Per Dozen
No. 3S292ST—Patent Stag Handle	$16 00	No. 3S292P—Mother of Pearl Handle	$34 00

Half Dozen in a Box



Cattle Knife; Length 3⅞ inches; German Silver Ribbed Bolsters; One Large Clip, One Large Speying and One Large Sheep Foot Blade; Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 2 lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S203⅜ST -Patent Stag Handle	$25 00	No. 3E203⅜ST —Patent Stag Handle	$25 00
No. 3S203⅛GST—Genuine Stag Handle	26 00	No. 3E203⅛GST -Genuine Stag Handle	26.00
No. 3S203⅛P Pearl Handle	52 00	No. 3L203⅛P Pearl Handle	52.00

Half Dozen in a Box

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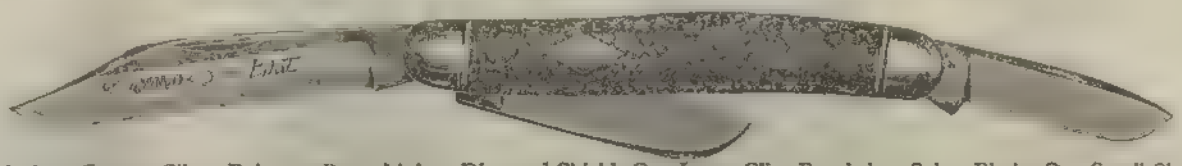
THREE BLADE JACKS

***DIAMOND EDGE**

Length 3⅞ inches; German Silver Bolsters; Milled Brass; German Silver Lining; Diamond Shield; One Large Spey Blade, One Small Clip and One Small Sheepfoot Blade, Full Crocus Polished and Etched "Western Triumph;" Weight per Dozen 2½ lbs.

	Per Dozen
No. 3S20⅝ST—Patent Stag Handle	**$22 00**

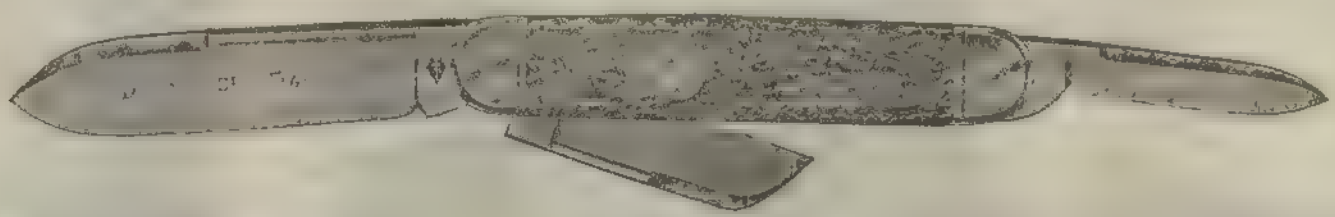
Half Dozen in a Box



Length 3⅞ inches; German Silver Bolsters; Brass Lining; Diamond Shield; One Large Clip, Beveled or Saber Blade; One Small Sheepfoot and One Small Spey Blade; Half Polished and Etched Blades; Weight per Dozen 2¼ lbs.

	Per Dozen
No. 3S3903/4E—Genuine Ebony Handle	**$24 00**
No. 3S3903/4ST—Patent Stag Handle	**24.00**

Half Dozen in a Box



Cattle Knife, Length 3½ inches; German Silver Bolsters, Nickel Bolsters, One Large Spear, One Large Sheepfoot and One Large Pen Blade, Full Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 3¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S91ST Patent Stag Handle	$26 00	No. 3E91ST Patent Stag Handle	$30 00

Half Dozen in a Box

Cattle Knife, Length 3½ inches; German Silver Bolsters, One Large Spear, One Large Sheepfoot and One Large Pen Blade, Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 2¾ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3G128GSF Genuine Stag Handle	$22 00	No. 3E128GST—Genuine Stag Handle	$27.00

Half Dozen in a Box

Cattle Knife, Length 3½ inches; Polished Stag Bolsters, One Large Spear, One Large Sheepfoot and One Large Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2½ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S167ST—Patent Stag Handle	$23 00	No. 3E167ST—Patent Stag Handle	$23 00

Half Dozen in a Box

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EMPIRE

THREE BLADE JACKS

Cattle Knife, Length 3¾ inches, German Silver Bolsters, One Large Clip, One Large Spaying and One Large Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2½ lbs.

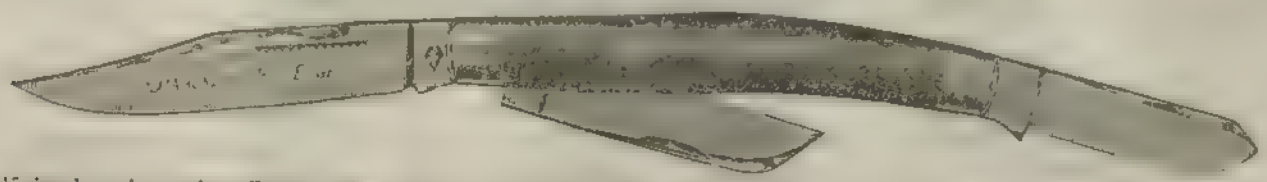
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S95 ¼ST Patent Stag Handle	$24 00	No. 3F95 ¼ST Patent Stag Handle	$24 00

Half Dozen in a Box

Cattle Knife, Length 4 inches, German Silver Bolsters, One Large Clip, One Large Spaying and One Large Sheepfoot Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 3¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S89¾ST Patent Stag Handle	$27 00	No. 3F89¾ST Patent Stag Handle	$27 00

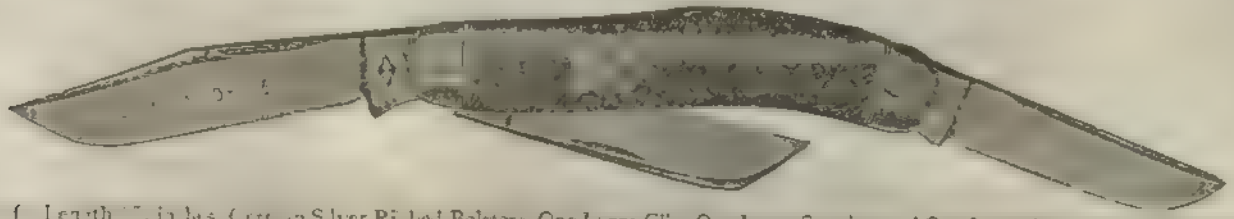
Half Dozen in a Box



Cattle Knife, Length 4 inches, German Silver Bolsters, One Large Clip, One Large Spaying and One Large Sheepfoot Blade, Half Crocus Polished and Etched Brass; Lining; German Silver Shield; Weight per Dozen 2½ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S184¾B —Genuine Buffalo Horn Handle	$24 00	No. 3E184¾B —Genuine Buffalo Horn Handle	$24 00
No. 3S184¾ST—Patent Stag Handle	23 00	No. 3F184¾ST Patent Stag Handle	23 00
No. 3S184¾P —Mother of Pearl Handle	50 00	No. 3E184¾P Mother of Pearl Handle	50 00
No. 3S184¾D —Gray Pearl Pyralin Handle	27 00		
No. 3S184¾J Golden Pearl Pyralin Handle	27 00		
No. 3S184¾H —Striped Pyralin Handle	27 00		

Half Dozen in a Box



Cattle Knife, Length 4¾ inches, German Silver Riveted Bolsters, One Large Clip, One Large Spaying and One Large Sheepfoot Blade, Half Crocus Polished and Etched Brass Lining; Hand Milled; German Silver Shield; Weight per Dozen 4½ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S218¾ST Patent Stag Handle	$26 00	No. 3F218¾ST Patent Stag Handle	$26 00
No. 3S218¾T Tortoise Shell Handle	30 00		
No. 3S218¾P —Mother of Pearl Handle	54 00		
No. 3S218¾PG—Mother of Pearl Handle; Rolled Gold Bolsters		No. 3F218¾P —Mother of Pearl Handle	48 00
Bolsters, German Silver Lining; Hand Milled, Gold Shield	30 00		

Same as above, except with Punch instead of Sheepfoot Blade

	Per Dozen
No. 3S218¾J Golden Pearl Pyralin Handle	$30 00
No. 3S218¾ST—Patent Stag Handle	28 00

Half Dozen in a Box

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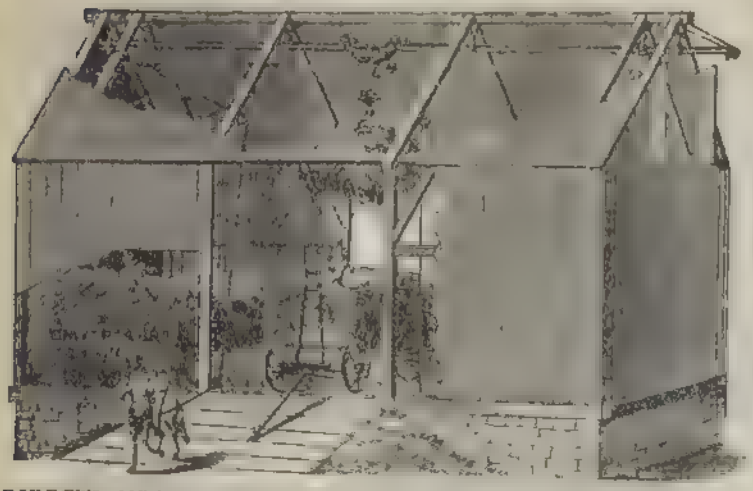
HAY CARRIERS

MATERIALS REQUIRED AND DIRECTIONS FOR PUTTING UP CARRIERS

MYERS



DIRECTIONS FOR ERECTING MYERS PATENT STEEL TRACK

Secure hay pulley rope from rafter to rafter, say 6 feet from ridge pole or peak and about 10 feet apart. Then place extension ladder across the ropes with bottom on floor. Now nail one rafter bracket at each end of barn, and draw a line from one end to the other and stretch tight. Then nail all rafter brackets even with this line. You are now ready to put up the track, which can be done in sections. Hoist near to rafter brackets by ropes. Then place hanging hook over rafter bracket and fasten by putting on bolt.

Material Required for a Steel Track Outfit for Different Length Barns

For a 40 foot Barn—One hay unloader. 36 feet Steel Track. 19 Hanging Hooks. 19 rafter brackets. 5 Knot Passing Pulleys. 1 Fork or 3 Slings. 6 Floor Hooks. 110 feet ¾ inch Manila Rope. 50 feet ⅜ inch Check Rope. 40 feet ⅜ inch Reverse Rope.

For a 50 foot Barn—One hay unloader. 48 feet Steel Track. 25 Hanging Hooks. 25 Rafter Brackets. 5 Knot passing Pulleys. 1 Fork or 3 Slings. 6 Floor Hooks. 130 feet ¾ inch Manila Rope. 55 feet ⅜ inch Check Rope. 50 feet ⅜ inch Reverse Rope.

For a 60 Foot Barn—One hay unloader. 58 feet Steel Track; 28 Hanging Hooks. 28 Rafter Brackets. 5 Knot passing Pulleys. 1 Fork or 3 Slings. 6 Floor Hooks. 150 feet ¾ inch Manila Rope. 60 feet ¾ inch Check Rope. 60 feet ⅜ inch Reverse Rope.

For a 70 foot Barn—Hay Unloader. 68 feet of Track. 34 Hanging Hooks. 5 Knot Pulleys. 1120 Pulleys. 1 Fork or 3 Slings. 6 Floor Hooks. 190 feet ¾ inch Draft Rope. 70 feet ⅜ inch Check Rope. 70 feet ⅜ inch Reverse Rope.

For an 80 foot Barn—Hay Unloader. 78 feet of Steel Track. 40 Hanging Hooks. 40 Rafter Brackets. 4 lbs. Bracket Nails. 5 Fig. 1120 Pulleys. 1 Fork or 3 Slings. 6 Floor Hooks. 210 feet ¾ inch Draft Rope. 80 feet ⅜ inch Check Rope. 80 feet ⅜ inch Reverse Rope.

Different lengths of Barns will use track, hanging hooks and rope in same ratio as above.

If you are to take hay in at end of Barn and have rope pass down over fast to horse, same as on Fig. 1120 Pulley, rope will be required to go to end of barn and then over, thus requiring about 10 feet more draft rope.

The pulley to draw the carrier track is the new Double Angle Steel Track with track, and it is cut. The metal rivets of track hanging hooks to support the carrier track through which they are riveted, as they will not foul the carrier.

This cut, Fig. 430, shows how steel track should be put up and how rope is tied from one rafter to the other close under the track to make stop for carrier at end of barn. Also shows how Rafter Brackets are placed.

How to Reverse Carrier—Set Fork in hay. Tie ends of rope together, to which hang a heavy weight. Pull carrier until load comes to the floor, then untie rope. Fasten weight to one end of rope, change Pulley A to floor B. This reverses carrier for opposite direction without leaving the floor or putting up. Use all knot passing pulleys. For taking in hay at end of barn use V shaped brace for track support, as shown in cut.

Illustrating how Track should be placed in Barn; also Rope Stop and how Pulley should be placed.

NEY MFG. CO.

MATERIAL FOR STEEL TRACK FORK CARRIERS

When Taking in Hay at End of Barn

1 Fork Carrier.
Track the Required length for Barn.
1 Track Eye or 1 Hanger Hook and 1 Rafter Bracket for each Rafter.
3 Knot Passing Pulleys.
3 Floor Hooks.
1 Swivel Rope Hitch.
1 Harpoon or Grapple Fork.
Draft Rope ¼, 11/32 or ⅜ inch; when team is at same end of barn as hay is taken in—length equal to twice the length of track, plus three times the distance from floor to track.
When team is at opposite end of barn to where hay is taken in—length equal to once the length of track, plus three times the distance from floor to track.
When team is at center (side) of barn—length equal to 1½ times the length of track plus three times the distance from floor to track, plus half the width of barn.
Trip Rope ¾ inch—length equal to distance from point of elevation to opposite end of track.
For barn having center (side) drive same as above, except 5 pulleys and floor hooks.

MATERIAL FOR STEEL TRACK SLING CARRIERS

Substitute Sling Pulley for Fork Pulley in carrier and three slings and add 15 feet to length of Draft Rope.

DIRECTIONS FOR PUTTING UP DOUBLE ANGLE STEEL TRACK

Put up the track in sections or by clamping the entire length together. The track may be graded by the use of assorted track eyes or put up with all one size as desired. See that the rafter brackets are properly nailed and that the track eyes are as near the center between rivets in the track as possible; this increases the strength of the track. Bolt trip block on track over point at which you wish to elevate. See that the bolts on trip block are drawn up tightly.

The above cut represents Double Angle Steel Track arranged for taking hay from outside or end of barn, and shows how track is graded when using track eyes of assorted lengths. Where slings are to be used it is advisable to place a hanger at every rafter.

This cut represents Double Angle Steel Track graded from ends to center of barn when track eyes of assorted lengths are used. It greatly assists the return of carrier after discharging its load. Also checks speed of carrier as it leaving hanger or trip block.

MATERIAL FOR WOOD TRACK CARRIERS

Same as for Steel Track Carriers, except that a wood track carrier, wood track and wood track hanger eyes are used.

DIRECTIONS FOR MAKING WOOD TRACKS

Use 4x4 hardwood or pine scantlings dressed down to 3¾ inches; or use two 2x4 pieces and spike them together, breaking joints.

4x3 inch can be used by blocking down the stop to fit the carrier and to engage the lock.

DIRECTIONS FOR PUTTING UP WOOD TRACK

Use a track hook to every rafter over the point of elevation and preferably through every other one to the end of track. Cut a hook at every second rafter will answer except at point of elevation. Let all nuts into the track so they will not interfere with the carrier. Make sure the track is at the proper depth where the trip block or bumper is placed. It may be necessary to cut a notch or set it into the wood.

DIRECTIONS FOR REVERSING CARRIERS

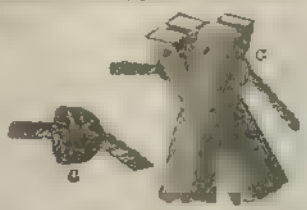
Pull carrier to stop block, let the pulley drop out of carrier. Take rope out of pulley at end of barn and while standing beneath the carrier give the rope a little slack and give it a throw to obtain a half turn in the swivel. Re-thread the pulleys in the end of the barn you wish to operate in, then the carrier is ready for operation.

Before pulling large rope out of pulleys tie a small rope to end of it so that the small rope will be through pulleys for pulling up the large rope the next reverse.

HAY CARRIERS

DIRECTIONS FOR PUTTING UP WIRE CABLE AND DERRICKS FOR STACKING

Take four poles or 4x4 scantling about 30 feet long; cut a slot in the top of each about ¾ inch wide and 4 inches deep for cable. Bore a hole for a ½ inch bolt about 1 inch above the bottom of the slot, to prevent cable from coming out while raising. Place carrier bumper complete on cable about at center. Place cable in slots, under bolts, th[illegible] a single clamp about 40 feet from each end of cable to prevent the poles from sliding in. Bolt cross pieces together with 3/4x10 inch bolts. Place carrier on cable between [illegible] clamps. Make loops at each end of cable, using double clamps for the purpose. Thread carrier and pulley with rope and fasten pulley near one of the single clamps. Fasten loops on ends of cable to strong stakes for guys and erect derrick by raising one set of poles just high enough so they will stand without slipping at bottom; then raise the other set about the same, continuing alternately with each set until cable is stretched tightly. Now fasten bumper to cable at opposite end from pulley over point at which you wish to elevate. Place second pulley to stake in ground nearly under the first pulley placed and it is ready for operating.



MATERIAL FOR WIRE CABLE CARRIER AND DERRICK FOR STACKING.

1 Cable Carrier.	2 ¾x10 inch Carriage Bolts.
1 Harpoon or Grapple Fork.	130 Feet ¾, ⅞ or 1 inch Rope.
2 Single Cable Clamps.	3 Pulleys.
2 Double Cable Clamps.	4 Poles 4x4 inch, 30 feet long.

This cut shows Carrier in use, unloading wheat or corn fodder in Barn with Sling Carriers. Fork Carriers can not be used for this purpose.

Lumber Required to Build a Hay Rack

Have All 2 inch Stuff Dressed on Both Sides, and inch Stuff on One Side. Two Pieces 2x8, 16 feet for Bed Sills. Have Bed Sills 6 inches Narrower in Front than in Rear. Two Pieces, 2x4, 14 feet, Cut in Two for Top Cross Pieces. Six Pieces, 2x4, 16 feet, One for Front Ladder, One for the Four Button Cross Sticks Under the Bed Sills, and Four for the Top Longitudinal Pieces. Two Pieces, 2x6, 12 feet, to Cut into 6 feet Lengths for Sides of Wheel Boxes. Spike from Underneath the 2x4 Longitudinal Pieces. Two Pieces, 1x6, 16 feet (Fencing) to Cup up to Cover Wheel Boxes. Two Pieces, 1x12, 10 feet to go in Front of Wheel Boxes to front End. The Above are for 14 inch Clamps; 16 inch take Larger Cross Pieces or Bed Sills.

HAY CARRIERS

Illustrations showing Method of using and operation of Sling Carriers.

SLING CARRYING LOAD

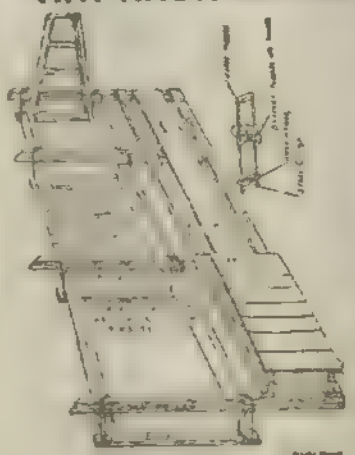
PLACING THE SLINGS

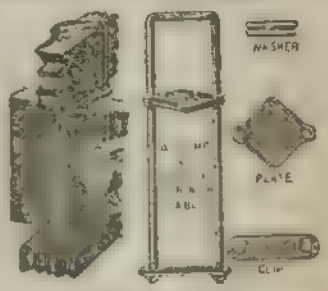
ATTACHING DRAFT ROPE

LIFTING LOAD

SLING DISCHARGING LOAD

HAY RACK BRACKETS AND CLAMPS





WENZELMANN

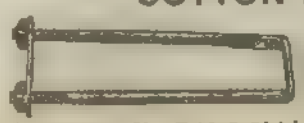
With these Brackets and Clamps any Farmer Can Build the Strongest and Neatest Hay Rack for His Wagon without Boring Through the Main Frame Work or Weakening the Wood. No Bolts or Nails, no Rough Pieces of Iron Plates to Chafe Between the Timbers; a Perfectly Rigid Rack, with no Possibility of Working or Twisting at the Joints. Lighter Material May be Used with These Fixtures than with any Other.

The Brackets are Made from a Mixture of Iroquois Steel and are the Heaviest and Strongest on the Market; They do not Bend and Cannot Get Out of Shape; the Clamps are Made of Special Steel and will not Break, they are Oversize, and the Nuts Have a Full Size Thread, Giving a Tight and Lasting Job; the Lower Clip is Made of Heavy Band Steel with Rounded Ends.

Nos.	0	1	2	3
Size, inches	12	14	16	18
Wt. Set, lbs.	13	15	17	22
Per Doz. Sets	$25 20	25 20	26.88	26.56

One Set in a Box.

COTTON FRAME CLAMPS



For making Frame to Hold Cotton, made of Best grade open Hearth Carbon Steel, Black Enamel Finish; Complete with Clip tie and Nuts. Per Dozen Sets

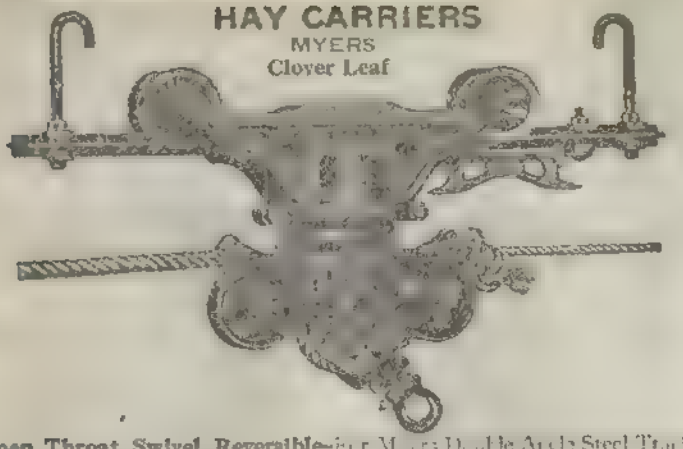
No. 3309A—Size 7-16x2x8½ inches; Weight per 100, 100 lbs... $26 00

No. 3309B—Size 7-16x2x10½ inches; Weight per 100, 125 lbs... 27 00

Packed Set of Eight in Wood Box.

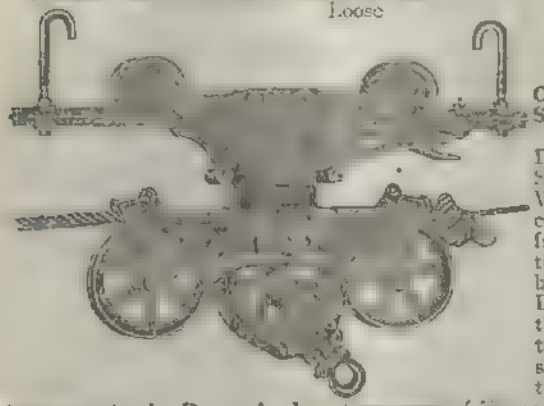
HAY CARRIERS

MYERS
Clover Leaf



Open Throat, Swivel, Reversible—For Myers Double Angle Steel Track
The Wide Mouth Receives the Pulley from Either Direction; Carrier can be reversed by Drawing the Rope Through from End to End or by both Sides, Preventing the Load from Accidentally Dropped. The Patent Double Fork Hook is Pivoted to Pulley on Both Sides, Preventing the Load from Being Accidentally Dropped. It is Composed of Three Parts and has no Springs; The Swinging Fork Pulley Relieves the Carrier Frame from all Strain when Drawing Hay over a High Beam or into a Well Filled Mow. Each

No. 111—Aluminum Finish, Red Striped Malleable Iron, Beaded Frame, 3¼ inch Flanged Track Wheel, with ½ inch Tread and Turned Steel Axle; 14 inches Long; Height 18 inches; With Trip and Two End Stops; Weight 27 lbs. **$9 80**
Loose

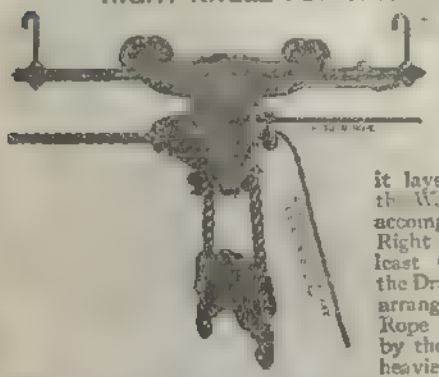


MYERS

Clover Leaf, Open Throat, Swivel, Reversible
For Myers Double Angle Steel Track. The Wide Mouth receives the Pulley from either Direction; Carrier can be reversed by Drawing the Rope through from End to End or by both sides, prevents the Load from being Accidentally Dropped, It is Composed of Three Parts and has no Springs. The Swinging Lift Pulley Relieves the Carrier Frame from all Strains when Drawing Hay over a High Beam or into a Well Filled Mow.

No. 121—Aluminum Finish, Red Striped Malleable, Beaded Frame; 7 inch Rope Sheaves, with Roller Bearings; Each 3¼ inch Flanged Track Wheel, with ½ inch Tread and Turned Steel Axle; 16 inches Long; Height 21 inches; With Trip and Two End Stops; Weight 32 lbs. **$11.20**
Loose

RIGHT ANGLE FORK AND SWING CARRIER



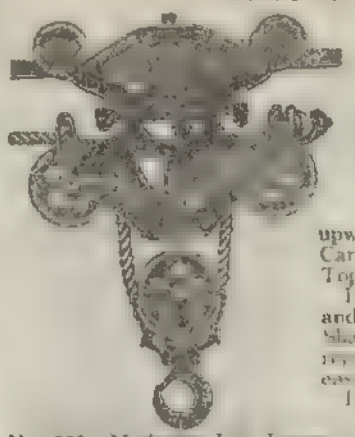
For Myers Double Angle Steel Track. This Machine is so arranged that it Elevates the Load at Right Angles with the Track with the Result that when the load is discharged in the Mow, it lays parallel with the load on the Wagon. This is a feature only accomplished by using Special Right Angle Pulleys which add at least One-Half Horse Power to the Draft. The Locking Device is so arranged that the Tension of the Rope Lock is regulated entirely by the Weight of the Load; the heavier the Load, the greater the Tension on the Rope Lock. Lock adjusts itself to any size Rope, ¾ to 1 inch.

The Sling Elevator operates Automatically and is Tripped by the Sling Pulley striking a Plate immediately under the Carrier. It is also arranged with a Separate Trip Rope (shown in Cut), by the use of which the Load may be carried into the Mow at any Elevation desired without Drawing entirely to the Top of the Barn. The Machine can also be Reversed by turning the Swivel from Left to Right. Each

No. M70—Aluminum Finish, Red Striped Malleable Iron Frame; 3¼ in. Flanged Track Wheels with ½ in. Tread and ⅜ in. Turned Steel Axles; Length 21¼ in.; Height 19 in., Weight 52 lbs. **$16 80**
Loose

HAY CARRIERS

NEY MFG. CO.



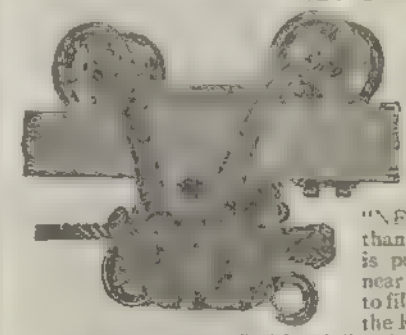
One of the Most Substantial Hay Carriers made; Contains Less Parts than any other Carrier of its Class. The Locking Device is Positive in Operation, Constructed without Springs and Securely Holds the Load, Positively Preventing it from Accidentally Dropped. The Fork Pulley is permitted to Swing upward near the Track, enabling the Carrier to Fill the Mow Close up to the Top Comb of Roof.

Large Wide Open Mouth; Both Rope and Swivel Reversible; All Wheels and Sheaves Revolve on Steel Turned Bushings which Reduces the Friction and Lightens the Draft.

For No. 1 Double Angle Steel Track. Each

No. 300—Malleable Iron Frame, Aluminum Finish, Frame with Wide Mouth, Height 14 inches, Steel Axles, Iron Wheels, Steel Draft Wheels and 5 inch Cast Pulley Sheaves; Weight 25 lbs. **$10 94**
Loose

NEY CLIMAX



Open Throat, Swivel Reversible
For 4x4 Wood Track
The Travelers and Sheaves revolve on Turned Bushings, which makes the draft very light.

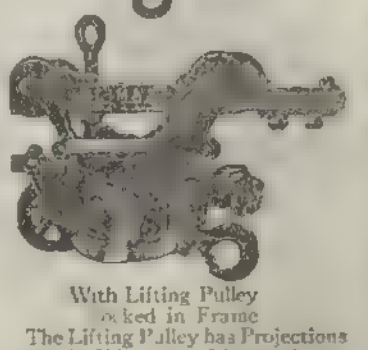
For Strength, Features of Construction and Durability this Carrier is Unexcelled by any other make. It is No. 110 and an exclusively "NEY," having more points of merit than any other make. The Fork Hook is permitted to swing upward, very near to the Track, enabling the Carrier to fill the Mow close up to the comb of the Roof. Each

No. 115—Aluminum Finish Malleable Iron Frame, 19 inches Long, 8 inches Wide, 16 inches High; Weight 30½ lbs. **$9 80**
Loose

NEY CABLE CARRIERS
Swivel Reversible

For ¾ or ⅝ inch Wire Cable or Rod. Used Largely for Outdoor Stacking. Easily Reversed from the Ground. The Trip-Back Fastens Securely to the Cable, but is so Constructed that it will Adjust Itself to Prevent Interference with Carrier in the Event of the Cable Twisting. Each

No. 70—All Malleable Iron, Adjustable Head, 3¼ in. Travelers, Length 7 in., Height 13 in.; Weight 24 lbs. **$9 80**
Loose



With Lifting Pulley Locked in Frame

The Lifting Pulley has Projections on each Side, on a Line with the Yoke, which Engage the Locks on the Inner Sides of the Frame when the Pulley is Drawn into the Opening in the Frame.

With Lifting Pulley Disengaged

The Locking Device is Positive in Operation and is Constructed without Springs. The Fork Hook is Permitted to Swing Upward very near to the Track, Enabling Carrier to Fill Mow close to comb of Roof.

NEY CLIMAX
Open Throat, Swivel, Reversible
For No. 1 Double Angle Steel Track Each

No. 110—Aluminum Finish Malleable Iron Frame; 3¼ in. Travelers, ½ inch Tread, 13¾ in. Long, 7½ in. Wide, 10¼ in. High; Wt. 23 lbs. **$8.50**
Loose

HAY CARRIER PULLEYS

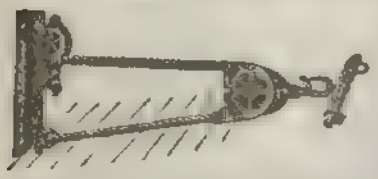
For Norleigh Diamond and No. 110, No. 115 and No. 80 Ney Climax Hay Carriers.

Each

No. 402—Malleable Iron; Length Over All 9 inches; Diameter of Sheave 4 inches; Weight 3 lbs $1.40

Loose

HAY CARRIER SNATCH PULLEY BLOCKS



This Device Shortens the Travel of the Horse. Tie a Knot in the Rope and Put the Worker in Front of it (see Cut). The Rope can then be thrown off the Snatch Pulley, and thus Allow the Hook to be Returned to the Load without Waiting for the Return of the Horse.

Per Dozen

No. 123—Malleable Iron Frame; Diameter of Sheave 4 inches, for 1 inch Rope or Smaller; Weight per Dozen 66 lbs..... $15.40

Loose

HAY CARRIER SLING PULLEYS

UNIVERSAL

The Universal Sling Pulley can be used with any make of Hay Carrier. It cannot be misplaced on the load as it can be used with either side up and with any shape or style of fork pulley.

Each

No. US—Malleable Iron; Galvanized; takes ¾ inch Rope; Weight 10 lbs. $4.20

Loose

Suitable for Nos. 20 and 70 Hay Carriers Only.

By Using No. RH23 Registering Head, this Sling Pulley Can be Made to Fit the Clover Leaf Carrier.

Each

No. 62 — Malleable Iron; Self Locking; Takes ¾ inch Rope; Weight 10 lbs..... $4.20

Loose

HAY CARRIER SWIVEL ROPE HITCHES

A Most Handy and Convenient Device for Taking Up and Letting Out Rope. Prevents Twisting of Rope. No Knots to Untie nor Waste of Rope by Cutting Knots Open.

Per Dozen

No. RH—Malleable Iron; Length Over All 8 inches; Weight per Dozen 20 lbs..... $4.45

Loose

HAY CARRIER FORKS

NELLIS

Single Harpoon

Japanned Malleable Iron Head and Wrought Steel Blade; Polished Tool Steel Point and Double Barb.

Each

No. 5—Length of Blade 36 inches; with Spring Latch which holds the Load Securely; when Tripped the Load is Discharged by its Own Weight; The Spring is Long and the Fork of Heavy Material; Weight each 15 lbs..... $4 20

Loose

SHORT HEAD

Double Harpoon

Double Harpoon Spear Point Steel; Malleable Iron Trip Levers; Japanned; Two Center Braces Riveted to Frame; Welded Ring; 3½ inch Harpoon Points.

Nos.	16	25
Length Tines, Inches	25	31
Length Over All, Inches	35	41
Width, Inches	18	18
Weight Each, Lbs.	18	21
Each	$2 24	2.80

Loose

ALFALFA

Double Harpoon

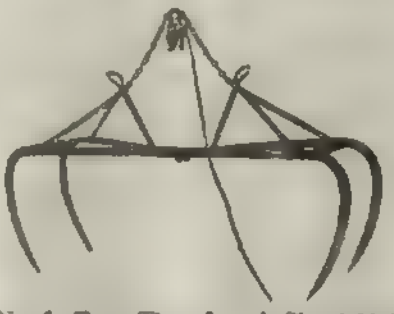
For Heavy Work in Alfalfa, Clover and Prairie Hay and where the Regular Forks are not Suitable.

Double Harpoon Spear Point Steel; Malleable Iron Trip Levers; Japanned; Two Center Braces Riveted to Frame; Welded Ring; 3½ inch Harpoon Points.

Each

No. 25—Length of Tines 35 inches; Length Over All 50 inches; Width 24 inches; Weight Each 3[illegible] lbs. $5.18

Loose



GRAPPLE FORKS

Ney's Automatic

Spring Steel Tines and Frame; Malleable Iron Lever Trip Lock and Harpoon; Black Japanned; Trimmed in Gold with Polished Points.

Each

No. 4—Four Tine; Length Closed 28 inches; Width 28 inches; Thickness 17 inches; Greatest Spread of Points, Open, 64 inches; Weight 38 lbs..... $12.00

No. 6—Six Tine; Length Closed 38 inches; Width 30 inches; Thickness 17 inches; Spread of Points, Open, 40 inches; Weight 50 lbs... 14.10

Shipped Knocked Down, One Wired in a Bundle.

HAY CARRIER SLINGS

To Take Off Load to Best Advantage, a Set of Three Slings Should Be Used

Will Handle Fine or Coarse Hay, Straw, Corn Stalks, Bundles of Grain, Baled Hay, etc., taking the Load up Clean from the Hay Rack; With the Use of Slings a Load of Hay can be Unloaded and Deposited in a Barn in One-Fourth the Time Required to Handle it with any Style of Hay Fork; This is of great Advantage when it is Necessary to Move a Crop Quickly.

Normal Length 17 feet; adjustable from 15½ to 19½ feet.

1¾ inch Square Oak Spreaders; ½-inch Loose Twist Sisal Ropes, with Adjustable Take-ups at Each End, to adjust to Length of Sling, to Meet the Requirements of the Hay Rack; Positive Lock Center Trip, ¼ inch Trip Rope; Used with Any Hay Carrier.

STANDARD

	Each
No. 4—4 feet Wide; Weight 20 lbs.	$4 48
No. 5—5 Feet Wide; Has Third or Center Rope for handling fine or short Hay; Weight 22½ lbs.	5 80

Loose

Normal Length 17 feet; Adjustable from 15½ to 19½ feet.

1¾ inch Square Oak Spreaders; ½ inch Loose Twist Sisal Ropes, with Adjustable Take-ups at Each End, to Adjust the Length of Sling, to Meet the Requirements of the Hay Rack; Positive Lock Center Trip; ¼ inch Trip Rope; Used with Any Hay Carrier.

CALIFORNIA

Extra Strong; Made for Heavy Work; Specially Rigged for Carrying Short Hay and Grain, Leaving No Litter.

	Each
No. 6—6 feet wide; Weight 25 lbs.	$7 00

Loose

HAY FORK PULLEYS

The Hollow Pins in Our Pulleys are Interchangeable and Either Iron or Wood Sheaves may be Used in the Frame.

Two Holes in the Center of the Pins Allow Oil or Other Lubricants to Flow Out on the Bearings Tallow or Axle Grease May be Used to Advantage instead of Oil.

★NORLEIGH DIAMOND, WOOD WHEEL

Extra Heavy Cast Iron Frame, Red Japanned Finish; Flanged Rope Shield; Malleable Iron Swivel Eye; 1 inch Hollow Loose Pin; Best Quality Hard Maple Sheave, Gloss Finish.

	Per Dozen
No. ND171—6 inch Maple Sheave 1⅝ inches Thick; Length Over All 10½ inches; Weight per Dozen 56 lbs.	$5.50

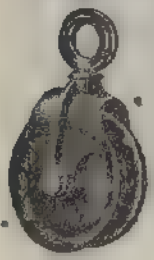
Loose

★NORLEIGH DIAMOND, WOOD WHEEL

Extra Heavy Cast Iron Frame; Red Japanned Finish, Flanged Rope Shield; Malleable Iron Swivel Eye, 1 Inch Hollow Loose Pin; Best Quality Hard Maple Sheave, Gloss Finish.

	Per Dozen
No. ND166—6 inch Knot Passing; Maple Sheave 1⅝ inches Thick; Diameter of Rope Passage 2¾ inches; Length Over All 11¼ inches; Weight per Dozen 62 lbs.	$8 50

Loose



No. 40

IRON WHEEL

Cast Iron, Japanned Frame and Wheel; Malleable Iron Swivel Eye Sheave 1½ inches Thick; ⅝ inch Solid Pin.

	Per Dozen
No. 40—4 inch Wheel; Length Over All 8¼ inches, Weight per Dozen 35 lbs.	$4 00
No. 50—5 inch Wheel; Length Over All 8⅝ inches; Weight per Dozen 38 lbs.	7 00

Nos. 50 and 60

	Per Dozen
No. 60—6 inch Wheel; Length Over All 9¼ inches; Weight per Dozen 43 lbs.	$8 50

Loose

HAY FORK PULLEYS

WOOD FRAME

	Per Dozen
No. 111—Hard Maple Frame with Wrought Iron Yoke; 4½x1½ inch Hard Maple Wood, ⅝ inch Solid Pin; 1½x⅛ inch Straps; Malleable Iron Swivel Eye; Length Over All 10 inches; Weight per Dozen 42 lbs.	$7.00

Loose

STEEL FRAME

	Per Dozen
No. 131—Heavy Steel Frame; Wrought Steel Hooks; Large Roller Bearings, Anti-friction; Adapted for ⅜ or ½ inch Cable; Diameter of Sheave 7 inches; Weight per Dozen 90 lbs.	$23.00

Loose

No. 5W—Solid Pin

WOOD WHEEL

Cast Iron, Japanned Frame, Malleable Iron Swivel Eye; Best Quality Hard Maple Sheave 1 5/8 inch Thick.

	Per Dozen
No. 5W—5 inch Wheel; Solid Pin; Length Over All 8¾ inches; Weight per Dozen 30 lbs.	$5.30
No. 6W—6 in. Wheel; 1 in. Loose Hollow Pin, Length Over All Inches, Weight per Dozen 33 lbs.	5.80

Loose

No. 6W-Hollow Pin

Nos. 113K and 122K

No. 116KP

KNOT PASSING

Heavy Japanned Iron Frame; Malleable Iron Swivel Eye, Large Rope Opening 2⅜ inches in Diameter; 11 inches Over All.

Wood Wheel

1 inch Hollow Loose Pin

	Per Dozen
No. 113KP—6 inch Maple Wheel; Cast Iron Frame	$7 50
No. 122KP—6 inch Maple Wheel, Malleable Iron Frame. Weight per Dozen 38 lbs.	8 00

Loose

Iron Wheel

⅝ inch Solid Pin

	Per Dozen
No. 116KP—6 inch Cast Iron Wheel; Cast Iron Frame; Weight per Dozen 49 lbs.	$7.80

Loose

EXTRA WOOD SHEAVES

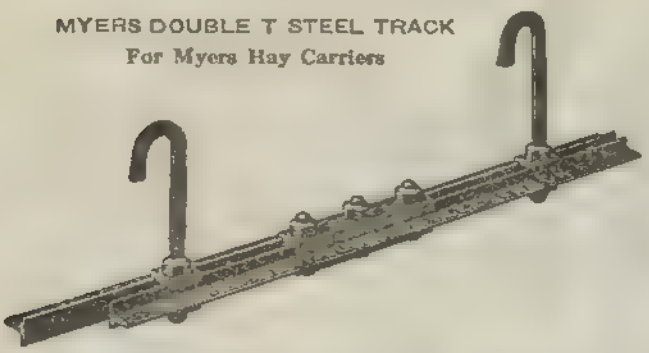
Best Quality Hard Maple; Gloss Finish; Deep Smooth Turned Groove; Size 6x1½ inches; Weight per Dozen 10½ lbs.

	Per Dozen
No. SPW—For Solid Pin	$2 00
No. HPW—For Hollow Pin	2.00

Loose

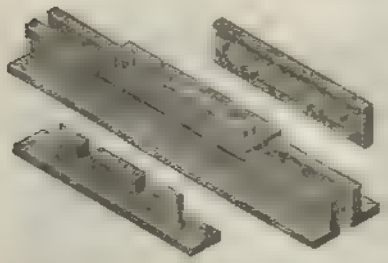
HAY CARRIER TRACK

MYERS DOUBLE T STEEL TRACK
For Myers Hay Carriers



Made of Two T Steel Rails Held Together by Bolted Clamps as well as by Clamps on the Hanging Hooks Shown Below. The Joints are Secured with a Three-bolt Clamp, which Makes this Part as Stiff and Strong as Elsewhere. When the Track is Clamped Together it Becomes Very Stiff and will Meet the Approval of All who Use it; Requires only a Wrench to Put Up.

Per Foot
No. 324—In 6 and 12 foot Lengths; Complete with Clamps; Weight per Foot 2 lbs..... **$0 28**
Loose.



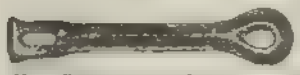
DOUBLE ANGLE STEEL TRACK
For Our Norleigh Diamond and Ney Climax Hay Carriers

Made of Two Pieces Angle Steel; with Extra Strong Splice Joint. The Splice is Held by Heavy Bolts and it Renders the Track as Strong and Rigid at the Joint as Elsewhere.

Per Foot
No. T—In 6, 8 and 12 foot Lengths; Complete with Couplings; Weight per Foot 2¼ lbs..... **$0.28**
Loose.

HAY CARRIER TRACK EYES

Malleable Iron; For Double Angle Track



CLOSED EYES

Used in Assorted Lengths to Give the Track an Incline Toward the Unloading Point when Desired; Inserted by Driving in from Under Side of Track, Midway between Joints and Moved to the Desired Point.

Nos.	66	67	68	69	70
Length, Inches	4½	5½	6½	7½	8½
Weight Each, Lbs.	¼	5	6	7	8
Per Dozen	$1.96	1.96	1.96	1.96	1.96

Loose

OPEN EYES

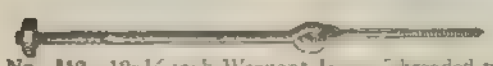
By Use of These Eyes the Track can be Readily Taken Down. They are inserted from beneath the track and Locked to the Rafter Bracket, by Use of the Cotter Pin

Per Dozen
No. 167—5½ inch; Weight per Dozen 5 lbs..... **$1.96**
No. 0167—7½ inch; Weight per Dozen 7 lbs..... **1.96**
Loose.

For Wood Track
Wrought Iron, with Nut ½ inch Diameter

Per Dozen
No. 8—8 inches Long; Weight Dozen 9 lbs..... **$1 54**
No. 10—10 inches Long; Weight Dozen 10 lbs..... **1.68**
Loose.

HAY CARRIER TRACK RODS



Jointed Rods for Wood Track

Per Dozen
No. J12—12x½ inch Wrought Iron, Threaded with Nut on One End; Screw Thread on Other End; Wt. Doz. 16 lbs. **$2.80**
Loose.

PULLEY FASTENERS AND CARRIER STOPS

For Double Angle Steel Track
Used to attach Pulley to end of Track and to prevent Carrier from running off. Track should be supported by an additional Hanger where this is used.

Per Dozen
No. CS—Malleable Iron; With Bolts; Weight per Dozen 7 lbs... **$2.80**
Loose.

HAY CARRIER TRACK HOOKS

MYERS
Used for Hanging Myers Double Angle Steel Track

Per Dozen
No. 3026—7 inches Long; Weight per Dozen 7½ lbs..... **$1.96**
No. 30210—9 inches Long; Weight per Dozen 9 lbs..... **1.96**
Loose.

For Wood Track
Wrought Iron with Nut ⅜ inch Diameter.

Per Dozen
No. 12—12 inches Long; Weight Dozen 11 lbs..... **$1 54**
No. 14—14 inches Long; Weight Dozen 12 lbs..... **1 68**
Loose.

BOARD HOOKS
For Double Angle Steel Track

Per Dozen
No. 70—Malleable Iron; 8½ inches Long; Weight per Dozen 9½ lbs..... **$1.96**
Loose.

FLOOR HOOKS
Wrought Iron, with Lag Screw End. Used for Anchoring Pulleys in Hay Carrier Outfits; also Used in Stores and in Warehouses for Suspending Weights from Ceiling.

Per Dozen
No. 58—6½ inches Long, ⅜ inch Diameter; Weight per Dozen 9 lbs..... **$1.68**
No. 34—7½ inches Long, ½ inch Diameter; Weight per Dozen 13 lbs..... **1.96**
Loose.

HAY CARRIER TRACK RAFTER BRACKET

For Wood or Steel Track Hanging Brackets

Made of Steel and so Crimped that th Track Eye Hangs on a Round Surface, Preventing Wear; also Provided with Spur Points to be Driven into the Rafters.

Per Dozen
No. 65—6¼ inches from Point to Point; Weight per Dozen 3 lbs..... **$0.84**
Loose.

HAY CARRIER TRACK END STOPS

For Myers Double T Steel Track
To be Placed on Top of the Track at Each End to Prevent Carrier Running off the End. Two End Stops are Wired to Each Carrier and are Furnished with Carrier without Charge.

Per Dozen
No. 1042—Malleable Iron; Aluminum Finished; Weight per Dozen 3 lbs..... **$1 40**
Loose.

HORSE CLIPPING AND SHEEP SHEARING ATTACHMENTS.

This attachment as illustrated here consists of an eye spindle, 6½ feet of flexible shaft complete with chain and the horse clipping knife.

Instructions are furnished so that any one can remove the regular apparatus from the machine and put the horse clipping attachment in its place.

Each.

Horse clipping attachment for No. 8 or 9 machine illustrated; weight 6 lbs. $8.25

Each.

Sheep Shearing Attachment for Horse Clipping Machine—For No. 1 or 2 clippers illustrated above...$12.25

This attachment consists of the universal jointed solid core type shaft, a No. 5 shear and four sets of knives.

Instructions are furnished with each attachment so that any one can remove the regular apparatus from the horse clipping machine and put the sheep shearing attachment in its place.

SHEARS FOR SHEEP SHEARING MACHINES.

Each.

No. 5 Shear—Complete, weight each 3¼ lbs.....$6.75
Extra top plates, No. 276.....20
Extra bottom plates, No. 277....60

Each.

No. 7 Shear—Ball bearing, complete, weigh each 3¼ lbs.....$8.00
This shear will fit any hand-power Stewart Sheep Shearing Machine.

STEWART HORSE CLIPPER HANDLE AND KNIFE COMPLETE, 3 INCH.

Each.

No. C—1-Horse clipper handle and knives complete, weight 20 oz....$3.50

No. 90—Top Plate, weight 3 oz...ey 1.00
No. 89—Bottom Plate, weight 5 oz... 1.50

STEWART LATEST MODEL CUTTING HEAD, 3 INCH, PATENTED.

Caution—Do not file or grind any part of the clipping head in any way. It is exactly right to cut best. The only grinding to be done is to resharpen the cutting plates when they get dull, and that must be done right.

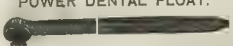
Be sure to let parts Nos. 358 and 359 alone. If they should be removed in any way, except when plates are to be sharpened, then do not attempt to use the clipper head until they are properly replaced.

Each

No. B1—Stewart Latest Model Horse Clipper; handle and knife complete, weight 20 oz.....$3.50
No. 360—Top Plate, weight 2 oz.... 1.00

No. 361—Bottom Plate, weight 3 oz..1.50

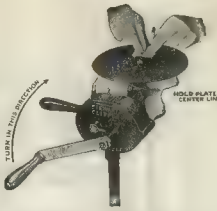
POWER DENTAL FLOAT.



Can be attached to any Chicago clipping machine. This instrument is cast from the best quality brass, and is highly nickel plated. It keeps a horse's teeth in good shape. It enables him to chew his food properly, and improves his digestion and health as a consequence.

Each.

Chicago Power Float.....$4.25
Extra Files for Chicago power float. .50



Can be attached in a moment to either the Stewart No. 1 Horse Clipping Machine or the Stewart No. 3 sheep shearing machine. It is put on in place of the shaft; the change can be made in a few seconds. A few turns of the crank handle makes dull knives sharp, so they will cut like new. This grinder is constructed of metal throughout.

Each.

No. 11—Grinder, complete, ready to attach to clipping or shearing machine, weight of each 9 lbs.....$4.50

If it is desired to run it by power a pulley may be substituted for the crank

Sharpens a sheep shearing knife in a few seconds, good as new.

No skill required; it is automatic.

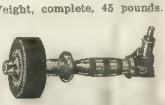
Each

New Automatic Sheep Knife Grinder $10.50

New Automatic Horse Clipper Knife Grinder 10.50

New Automatic Sheep and Horse Grinder 11.00

Weight, complete, 45 pounds.



Grinding, drilling and toe calk sharpening attachment for Stewart sheep shearing machine. To attach, merely remove the shear and put on the grinding attachment.

Each

No. SGA—Stewart Grinding Attachment.....$5.50

HORSE CLIPPING MACHINES.

STEWART HAND.

Stewart ball bearing enclosed gear machine

Each

No. 1—Horse Clipper; complete as illustrated; weight boxed, 36 lbs. **$12.75** pyb

No. 1S—Horse Clipper With Sheep Shearing Attachment..... **25.00**

Each.

No. 2—Horse clipper, complete as illustrated weight, boxed, 70 pounds. **$16.00** itdz

No. 2S—Horse clipper, with sheep shearing attachment **28.25** tizp

SHEEP SHEARING MACHINES.

STEWART HAND.

Stewart ball bearing machine with No. 7 ball bearing shear.

Each.

No. 9—Sheep shearing machine, complete with four sets of knives; weight boxed, 50 pounds .....**$19.25** iaza

SHEEP SHEARING MACHINES.

STEWART HAND.

Each

No. 8—Sheep shearing machine, complete with four sets of knives, weight boxed, 45 lbs..... .**$17.00** itey

No. 8C—Sheep shearing machine, complete with four sets of knives and horse clipping attachment **25.25**

NEW MODEL HAND.

These machines have liberal bearing surfaces, are well supported and have cut gearing throughout.

Each

No. 1904—New Model sheep shearing machine, complete with four sets of knives; weight boxed, 56 lbs.....**$19.25**

NEW MODEL WITH POWER PULLEY.

When power is available, even though the number of sheep is small, it is profitable to have a shearing machine fitted with pulley to be run by an engine or other motive power.

The New Model machines have liberal bearing surfaces; are well supported and have cut gearings throughout. Will operate by power equal to the best made power machines.

Each

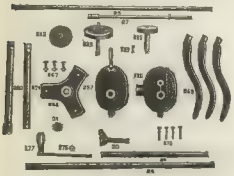
No. 1905—New Model Power sheep shearing machine, fitted with 8-inch pulley, complete with four sets of knives; weight boxed, 60 lbs..... **$20 75**

PARTS FOR STEWART'S SHEEP SHEARING MACHINES.

PARTS OF NO. 7 OR NO. 5 SHEAR.

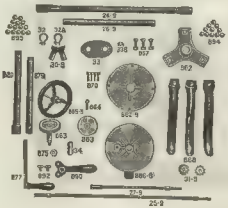
No.	Each
250—Frame	$1.00
251—Lid	.50
252—Tension nut	.25
253—Tension pin	.25
254—Oil hole screws	.05
255—Tension spring	.10
256—Comb screw	.10
257 Fork	1.50
258—Tension spring screw	.05
259—Fork pin	.05
261—Fork tongue	.25
262—Lid screw	.05
263—Ferrule	.05
264—Tension nut disc	.10
268—Crank roller	.20
269—Handle grip	$0.25
270—Joint guards (set)	.25
271—Tongue pin	.02
272—Shell cup	.15
276—Cutter	.15
277 Comb	.50
278 Joint spindle	.25
279—Drive bushing	.25
280—Main spindle	.50
281—Gear	.40
282—Universal joint	2.00
283—Joint spindle pin	.02
284—Set of ball bearings for drive bush and spindle	.10
285—Set of ball bearings for gears	.15

PARTS OF NO. 8 ENCLOSED GEAR SHEARING MACHINE.



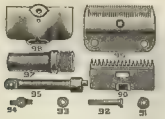
No.	Each
24—Long tube	$1.50
25—Long spindle	2.00
26—Short tube	.50
27—Short spindle	.75
30—Universal joint yoke	.75
31—Universal joint cog	.40
860—Gear case	1.00
861—Gear case cover	.75
862—Leg bracket	.35
863—Drive gear and spindle	1.50
864—Cotter pin	.02
865—Balance wheel and spindle	1.00
867—Bracket studs and nuts, per set	.15
868—Legs	.35
870—Gear case screws, each	.05
872—Intermediate gear and pinion	2.00
875—Handle nut	.05
877—Crank handle	.50
879—Upper part of upright	.40
880—Lower part of upright with coupling	.60

PARTS OF NO. 9 BALL BEARING SHEARING MACHINE.



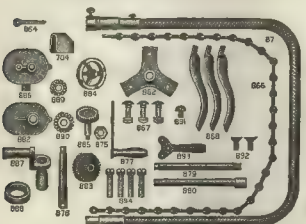
No.	Each
24-9—Long tube	$1.50
25-9—Long spindle	2.00
26-9—Short tube	.50
27-9—Short spindle	.75
30-9—Universal joint	2.00
31-9—Gears (each)	.40
32—Upper tube clamp	.25
32-A—Lower tube clamp	.25
33—Leather guard	.15
33-B—Hook for leather guard	.02
34—Bayonet ferrule	.25
862—Leg bracket	.35
863—Drive gear and spindle	1.50
864—Cotter pin	.02
865-9—Balance wheel and spindle	1.00
867—Bracket studs and nuts per set	.15
868—Legs, each	$0.35
870—Gear case screws, each	.05
875—Hexagon nut for crank	.05
877—Crank	.50
879—Top portion of upright	.40
880—Bottom portion of upright	.60
882-9—Gear case cover	.75
883—Intermediate gear and pinion	2.00
886-9—Gear case	1.00
890—Grip handle	.25
892—Grip screws, each	.10
894—Set of ball bearings for spindles	.10
895—Set of ball bearing gears	.15

PARTS OF STEWART NO. CI CLIPPING HEAD.



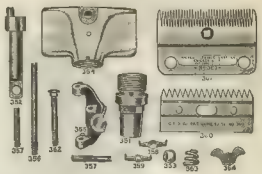
	Each
No. 90—Top plate	$1.00
No. 91—Tension spring	.05
No. 92—Tension bolt	.05
No. 93—Eccentric roll	.10
No. 94—Tension nut	.05
No. 95—Pin and shaft	.35
No. 97—Shank	.40
No. 98—Front part of handle	.50
No. 99—Bottom plate	1.50

PARTS OF STEWART NO. I BALL BEARING CLIPPING MACHINE



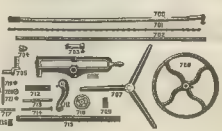
No.	Each
704—Gear cap; weight, 5½ oz	$0.50
862—Leg bracket; weight, 41 oz	.35
864—Cotter pin; weight, ¼ oz	.02
866—6-foot chain, 30s per foot; weight, 1 lb	1.80
867—Bracket stud and nut; weight, 2 oz	.05
868—Legs, each; weight, 30 oz	.35
871—6-foot shaft; weight, 39 oz	3.00
875—Handle nut; weight, ½ oz	.05
876—Eye spindle; weight, 4 oz	.50
877—Crank handle; weight, 12 oz	.50
879—Upper part of upright; weight, 17 oz	.40
880—Lower part of upright with couplings; weight, 21 oz.	.60
882—Gear case cover; weight, 27 oz	.75
883—Intermediate gear and pinion; weight, 12 oz.	2.00
884—Balance wheel and spindle; weight, 22 oz	1.00
885—Drive gear and spindle; weight, 19 oz	1.50
886—Gear case; weight, 50 oz	1.00
887—Gear head casting; weight, 20 oz	1.50
888—Balls and ball cup; weight, 1 oz	.75
889—Small cog; weight, 1 oz	.25
890—Large cog; weight, 1½ oz	.50
891—Gear cap screw; weight, ⅛ oz	.05
892—Grip handle screw; weight each, 1 oz	.05
893—Grip handle; weight, 11 oz	.25
894—Gear case screws; weight each, 1 oz	.05
3-inch ferrule for No. 871 shaft; weight, 4 oz.	.25
5-inch ferrule for No. 871 shaft; weight, 13 oz.	.50

PARTS OF STEWART LATEST MODEL CUTTING HEAD.

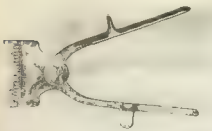


No.	Each
350—Shaft socket; weight, 6 oz	$0.25
351—Taper sleeve; weight, 2 oz	.40
352—Drive pin; weight, 2 oz	.35
353—Drive ball; weight, 1/8 oz	.10
354—Brace; weight, 5 oz	.50
355—Cross head; weight, 1 oz	.50
356—Cross head pin; weight, 1/2 oz	.10
357—Guide pins; weight, 1/7 oz	.05
358—Ball boss; weight, 1/7 oz	.05
359—Socket boss; weight, 1/7 oz	.05
360—Top plate; weight, 2 oz	1.00
361—Bottom plate; weight, 3 oz	1.50
362—Tension bolt; weight, 1/5 oz	.05
363—Tension spring; weight, 1/8 oz	.05
364—Tension nut; weight, 1/7 oz	.05

PARTS OF NO. 2 CHICAGO CLIPPING MACHINE.



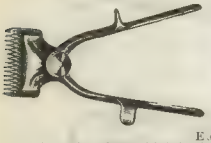
No.	Each
700—Shaft, without chain, 6½ feet	$3.25
701—Chain for shaft, 6½ feet	1.95
702—Spiral spring, without cover	1.80
703—Top sleeve	.50
704—Gear cap	.50
705—Gear head casting	1.50
706—Bracket	2.00
707—Tripod	2.00
708—Drive wheel	2.50
709—Bottom sleeve	.25
710—Balance wheel	1.00
711—Crank	.50
712—Wood handle	.15
713—Axle	.50
714—Handle bolt	.25
715—Upright	1.00
716—Pinion	.50
717—Eye spindle	.50
718—Pinion shaft	.50
719—Small cog	.25
720—Large cog	.50
721—Hexagon nut for handle bolt	.05



Each

Khedive No. 1—1 inch cut; nickel plated aluminum handle smooth bottom plate; width, 1⅛ inches; three-coil concealed spring; length of clipper, 5½ inches. **$3.30**

No. 203—Polished steel handles, otherwise same as Khedive No. 1 . . **1.90**



Each

Success No. 1—½-inch cut; nickel plated aluminum handle; concealed coil spring, corrugated bottom plate; width of bottom plate, 1⅛ inches; length over all, 5½ inches. **$4.00**

Success No. 0—⅝-inch cut, otherwise as above **4.30**

Success No. 00—1 32-inch cut, otherwise as above **4.60**

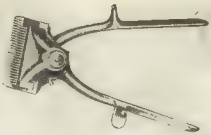
Each

Sterling No. 1—½-inch cut; nickel plated; ball bearing; concealed three-coil spring; fluted bottom plate, width 2 inches; length of clipper, 5¾ inches **$5.00**

Each

No. 111/1—½-inch cut; nickel plated; concealed coil spring; smooth bottom plate, width 1⅛ inches; length of clipper, 5¾ inches **$2.20**

No. 110/0—½-inch cut, otherwise same as No. 111/1. . . . . **2.70**



Each

Victor No. 0—½-inch cut; nickel plated aluminum handle; ball bearing; concealed coil spring; corrugated bottom plate, width 1⅝ inches; length of clipper, 5½ inches **$5.30**

Victor No. 1—½-inch cut, otherwise as Victor No. 0. . . . . **5.00**

Nickel plated, very best quality steel is used in the plates, the grinding and fitting is the finest. Made especially for barbers.

Each

Queen 1—Cuts ½-inch long . . . Out of stock

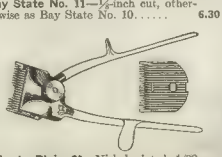
Queen 0—Cuts extra short . . . . Out of stock

Each

Bay State 0—Ivory finish handle; nickel plated head; ball bearing; concealed coil spring; ½-inch cut. . . . **$7.30**

Bay State No. 10—Aluminum handles, otherwise as Bay State 0 . . . **6.60**

Bay State No. 11—½-inch cut, otherwise as Bay State No. 10. . . . . **6.30**

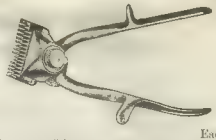


Liberty Plain 00—Nickel plated, 1/32 inch, cutting, cage concealed spring, corrugated bottom plate, length 5½ inches; width of bottom plate 1⅜ inches; weight 3 ounces. **$5.50**

Liberty Sanity 00—Ivory finish handles, nickel plated head, otherwise same as above. **6.20**

Prepaid on any . .

FETLOCK CLIPPERS.



Each

No. 771—Nickel plated; adjustable tension spiral spring; smooth bottom plate, width 1⅞ inches; length, 6 inches. **$5.70**

No. 671—As No. 771, but is fitted with concealed three-coil spring instead of a spiral spring; length of clipper, 5½ inches. **3.50**

HORSE CLIPPERS.

This is a medium grade clipper; has single nut and center tension.

Each

No. 179—Polished steel; rubberoid handles; length, 11 inches; width of bottom plate, 3¼ inches; weight, 14 ozs. **$4.50**

The pressure cap of this clipper is made of sheet steel instead of malleable casting. It is neater, lighter and produces a smooth motion in operation.

Each

No. 129—(New Market Pattern) highly polished steel; rubberoid handles; length, 11 inches; width of bottom plate, 3¼ inches. **$5.20**

This clipper has a hardened steel case in which the bearings travel.

Each

No. 159—Anti-friction; ball bearing perfect in construction; nickel plated has rubberoid handles; length, 11 inches; width of bottom plate, 3¼ inches; weight, 1 lb. **$6.50**

Incandescent Electric Headlights

No. 1663 Incandescent Headlight

18-inch

The accompanying illustration represents a design of unusual merit—is furnished with extra deep reflector (13¾ inches) and lends itself admirably to localities where greater penetration is a factor. This style, as well as those shown on preceding pages, is wired so that electrical connections are made automatically when slide and reflector are in proper place. Provision is also made to illuminate the side frames by means of an auxiliary lamp, which burns independently—arrangement is made for a lamp in front of the reflector to be used as a dimmer, controlled by switch in the cab.

The case is constructed of heavy steel, properly balanced to reduce vibration and is electrically welded—door hung in the most approved manner, reinforced and supported by substantial malleable hinges.

Price..... each $60.00

New Style Locomotive Oil Headlight

No. 1596 -23-Inch

Used by Some of the Leading Lines Where Requirements Are Necessarily Severe.

While the styles already shown have been thoroughly satisfactory for the purpose intended measures now in force in some districts demand a greater volume of light of somewhat longer range and diffusion

In order to meet this condition recourse is had to a reflector of sufficient size and of the proper depth, being focused with a burner of ample capacity.

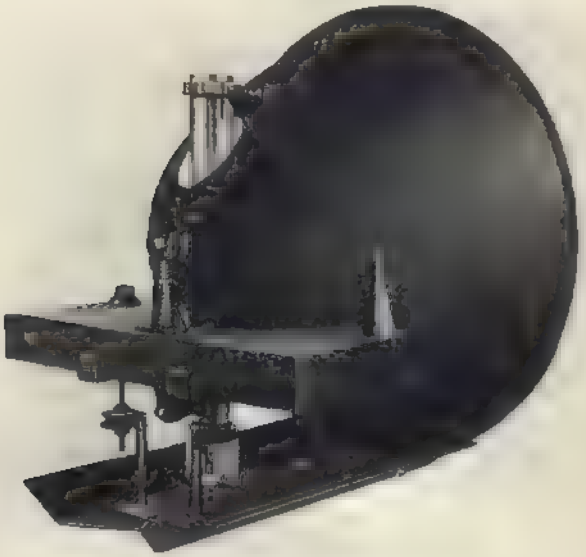
The frame or housing identical to that shown on opposite page, is of rigid construction, electrically welded, provided with spacious side number frames and supported in a manner to reduce vibration

Specifications of Headlight: Case, heavy sheet steel electrically welded. Height over all 35 1/2 inches depth over all 23 1/2 inches width over all 26 1/2 inches; bottom support, distance between center of bolt holes, depth 13 1/2 inches, width 20 1/2 inches, front glass diameter 23 inches Reflector copper silver plated chuck No. 2—22 inches diameter 14 inches deep focal 21 1/8 inches, burner No 106, Page 229, chimney No. 93 or 94

See next page

New Style Locomotive Oil Headlight

No. 1596 Interior



Weights and Measurements for Shipment

	Net Weight Pounds	Gross Weight Pounds	Each Box Inches	Cubic Feet
Crated one in crate—Domestic	97	135		
Boxed one in box—Domestic.....	97	150	.. ..	
Boxed one in box Export	97	170	36x31x25	16 145

Quotation covers headlight as shown--front cover or curtain extra when ordered.

For Price, see page 228

New Style Locomotive Oil Headlight

No. 1596D 23-Inch

Used extensively in districts where traffic regulation demands an adequate headlight

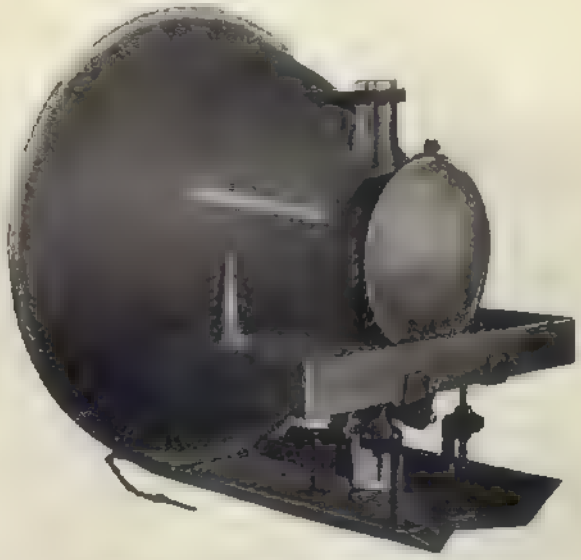
The accompanying illustrations serve to introduce a new design, the result of much study and effort to produce an oil headlight whose qualities and general workmanship would commend it to those seeking a more dependable article

A glance at the cuts indicate a departure from the usual method of construction, especially as regards the reflector which is mounted in conjunction with a mirror so arranged to permit of adjustment and detachment when necessary to clean A combination of this character insures comparative ease in cleaning and maintaining a bright reflecting surface

See next page

New Style Locomotive Oil Headlight

No. 1596D—Interior



Weights and Measurements for Shipment

	Net Weight Pounds	Gross Weight Pounds	Each Box Inches	Cubic Feet
Crated one in crate—domestic	100	138		
Boxed one in box—domestic	100	155		
Boxed one in box—export	100	175	36x36x25	16.15

Specifications of Headlight

Case, heavy sheet steel, electrically welded; height over all, 33½ inches; depth over all, 23½ inches, width over all, 26½ inches, bottom support, distance between center of bolt holes, depth, 13½ inches; width, 20½ inches. Front glass, diameter, 23 inches; reflector, copper silver-plated chuck No. 2, 22 inches diameter, 14 inches deep, focal 2½ inches, mirror encased silvering protected, diameter 8 inches, burner No. 1 Ib, page 229, chimney No. 93 or No. 94 page 150.

Quotation covers headlight as shown. Front cover or curtain extra when ordered.

For price, see page 228

New Style Locomotive Headlight

No. 1531

18-Inch

Used extensively in localities where more light is required.

Certain measures in force throughout several states make it imperative to use oil headlights of greater capacity than formerly employed

The plain case headlight, illustrated hereon, has been found to possess the necessary requisites and is recommended Made of heavy sheet steel—electrically welded insures stability and consequent long life—reflector, a true parabola, is of the proper dimensions necessary to project a volume of light within the scope of its requirements and is made possible by introduction of suitable burner of higher candle power

Weights and Measurements for Shipment

	Net Weight Lbs.	Gross Weight Lbs.	Each Box Inches	Cubic Feet
Crated one in crate—domestic. .	80	135		
Boxed one in box—domestic.... . .	80	145		
Boxed one in box—export..	80	165	37 x 29 x 29	18 01

Specifications of Headlight

Case Heavy sheet steel, electrically welded Height over all, 34 inches depth over all, 23½ inches width over all 24½ inches

Steel Bottom depth, 19½ inches, width 21½ inches, front glass diameter, 19 inches, reflector copper silver plated No 61, 18¾ inches inside diameter, 13½ inches deep, focal 1⅛ Burner No 106, page 229 chimney No 93 or 94

Quotation covers headlight as shown front cover or curtain extra when ordered

For price, see page 228.

ROLLING STORE LADDERS

✠MILBRADT

MADE TO ORDER ONLY

Made in Various Styles to Fit All Kinds of Shelving. Shipped Complete Ready to Install

Made of Hardwood Lumber, Highly Finished; Steps Dadoed into Sides and Screwed in a Most Thorough Manner; Brackets and Fixtures are Malleable Iron, Nicely Finished; These Ladders Take up Very Little Space and Run Without Noise or Friction; a Slight Push Will Propel Ladder the Length of an Ordinary Store; an Extra Wide Shelf at the Top of Each Ladder is Very Convenient in Handling Stock.

BENT LADDERS

For Track Fastened to Shelving Near Top, Short Fork Shaped Irons with Rod Rollers, Run Against the Edge of Wide Base Shelf; Runs on Round Steel Track.

	Each
No. 1—Width 17¼ inches; 3 inch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight 50 lbs.	$26 00

BENT LADDERS

For Shelving Where the Next Shelf is Greater Width of Latter than Base Shelf of Ladder; Rollers Ride on Front Edge of Upper Shelf; Rollers are Concave Faced; Runs on Square Hardwood Track, Only, to Guide Ladder.

	Each
No. 2—Width 17¼ inches; 3 inch Side Pieces, 3½ inch Steps, 9 inch Top Shelf; Average Shipping Weight 50 lbs.	$26 00

BENT LADDERS

Fastened to Shelving Near Top, Short Fork Irons with Rollers Ride on Front Edge of Narrow Base Shelf; Angle Made to Fasten Near Shelving; Runs on Round Steel Track.

	Each
No. 3—Width 17¼ inches; 3 inch Side Pieces, 3½ inch Steps; 9 inch Top Shelf; Average Shipping Weight 50 lbs.	$26.00

For Track, Brackets, etc., See Page 3121

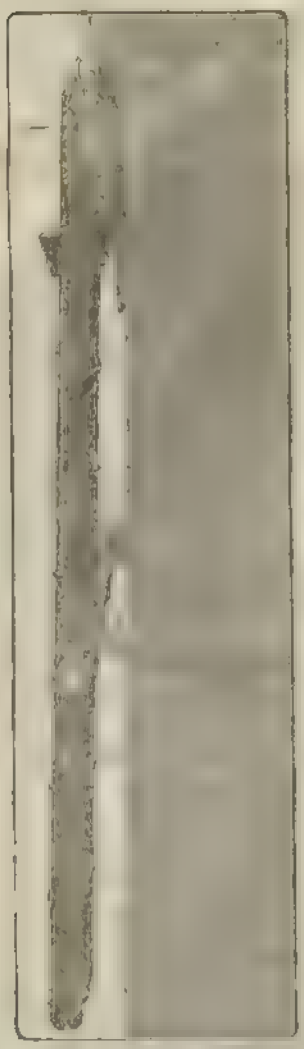
TO ORDER ABOVE LADDERS

Give Height from Floor to Top of Base Shelf, Width or Projection of Base Shelf from Front Edge of Uprights, and Height from Top of Base Shelf to Top of Shelf to Which Track is to be Fastened. If Base Shelf, or Base Shelf and Next Shelf, Project Beyond Front Edge of Shelving; When Ordering Ladder No. 2, Where Bent Steps Start; How Much Each Step is to Project; Width of Top Shelving; Where Fixtures Are to Be Taken, If Ladders are Ordered for Odd or Irregular Shelving, a Full Size Sketch of Side View of Shelving is Sent Us.

Items Marked ✠ Not Carried in Stock; Made to Order Only and Shipped from St. Louis

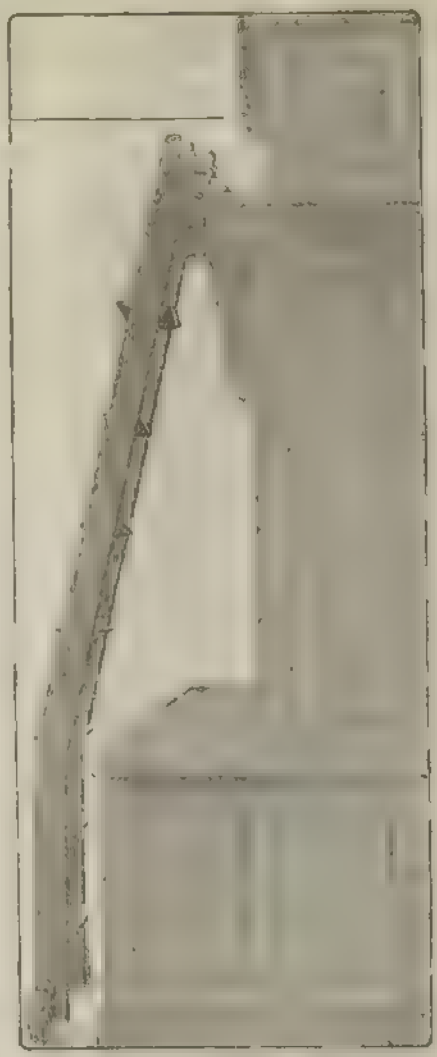
✣MILBRADT ROLLING STORE LADDERS

MADE TO ORDER ONLY



STRAIGHT LADDERS

BENT LADDERS



BENT LADDERS

For Flat Hardwood Track, which is Screwed on Top of Original Low Shelving which has Been [illegible] to the Ceiling, Fore Shelf [illegible] with Rubber Rollers to run Against Edge of Wide Base Shelf, are Attached Near Lower End of Ladder, [illegible] Mad Arm Large Necessary to Hold Lower End of Ladder [illegible] for Curved Track, the Hardwood Track is Dry Hard Maple and the Ladder Runs Noiselessly and Easily on it, the Track will Last a Life Time.

Each

No. 10—Width 17¼ inches; Birch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight 50 lbs **$26 00**

For Flat Hardwood Track, which is Screwed on Top of Original Low Shelving which Has [illegible] to the Ceiling, at His Option Tired Wheels at the Lower End which Run on the Floor; no Track is Used on the Floor; [illegible] Wheels at the Upper End Prevent Ladder [illegible] Apart Just Right to Move Easy, the Lower End of Ladder May be Swung Close to Shelving, out of the Way, when Not in Use; Can be Used on Shelving, With or Without a Base Shelf.

Each

No. 13—Width 17¼ inches; Birch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight [illegible] lbs **$28 00**

Front Locked Swinging Near the Lower Ends Long Swinging Arms [illegible] the Wood Shelf the Wood Shelf has Lower Ends to Rest Upon Floor, Wheels on Upper Ends Prevent Ladder from Moving Apart, to 20 [illegible] Ladder Rests Against Edge of Shelf, the Upper End [illegible] 10 Inches Shorter than Lower End, Can be Used on Shelving or Plain Floor, Folds Together for Storing Away Out of the Way; when Used on Shelving Lower Ends Rest [illegible] Arms Swing Out Over Shelf

Each

No. 1—Width [illegible] Birch Side Pieces; 3½ inch Steps; 9 inch Top Shelf; Complete with Fixtures; Average Shipping Weight 50 lbs **$24 00**

For Track, Brackets, etc., See Page 3121

To Order Ladder No. 1—Give Exact Height from Floor to Top of Base Shelf, the Exact Width or Projection of Base Shelf, the Exact Height from Top of Base Shelf to the Top of Shelf to which Track is to be Fastened; Track Should be Fastened to a Shelf between Two to Three Feet Down from the Top.

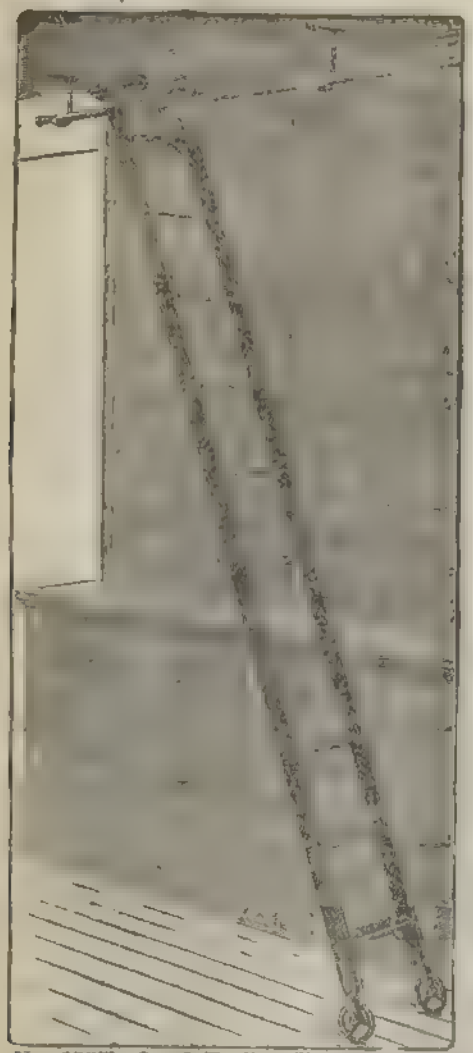
To Order Ladders Nos. 10 and 13—Give Exact Height from the Floor to Top of Base Shelf, the Exact Width or Projection of Base Shelf, and the Exact Height from Top of Base Shelf to Top of Shelving or Cornice, on Top of which Track is to be Fastened, also State How far Cornice or Shelving, on Top of which Track is to be Fastened Projects Out Over Lower Part of Shelving.

Items Marked ✣ Not Carried in Stock; Made to Order Only and Shipped from St. Louis

ROLLING STORE LADDERS AND TRACK

MILBRADT

MADE TO ORDER ONLY



TROLLEY OR CEILING LADDERS

For Steel Track Fastened to the Ceiling, Rubber Tired Wheels Run Noiselessly on the Steel Track; Cushion Tired Wheels at the Bottom Run on the Floor; the Track is Made of Round Tubing and Rests in Malleable Iron Brackets, which are Screwed to the Ceiling About 4 feet Apart, or so the Lag Screws will Enter the Joists; if the Ceiling is Plastered, a Board 7 inches Wide Should First be Nailed or Screwed to Ceiling and the Brackets Screwed to the Board; in Every Instance, the Lag Screws Must Enter the Joists; Ceiling Board Not Furnished, Unless Specially Ordered.

This Ladder is Strongly Made and with Sufficient Incline to Make Easy Climbing; it is Especially Adapted for Hardware Stores, Wholesale Houses or Other Places where Heavy Goods are Handled; it Runs Independently of Shelving and is the Most Suitable to Use when Shelving is Not so Arranged that Ladders Can be Conveniently Applied to it.

Each

No. 15—Width 14 inches; 4 inch Side Pieces, 5 in L. Steps; Complete with Fixtures; Average Shipping Weight 60 lbs **$24.00**

Per Foot

No. 15ST—Steel Trolley Track, for Above Ladder Including Brackets and Lag Screws; Weight per Foot 1½ lbs. **$0.50**

No. 15CB Ceiling Board, 7 inches Wide, for Use on Plastered Ceilings, with Above Ladders, Weight per Foot 1½ lbs. $0 20

To Order Above Ladder—Give Exact Height from Floor to Ceiling and State Exact Length of Each Run of Steel Track Wanted.

TRACK BRACKETS

Used to Hold up Steel Track which is Attached to Shelving they are Screwed and Bolted on Top of Shelf; Used in Connection with Nos. 7 or 8 Brackets Shown Below, on Shelving where Uprights to which Brackets can be Fastened are Too Far Apart to Make Track Strong Enough.

Each

No. 9—Malleable Iron, Weight ½ lb. **$0 90**

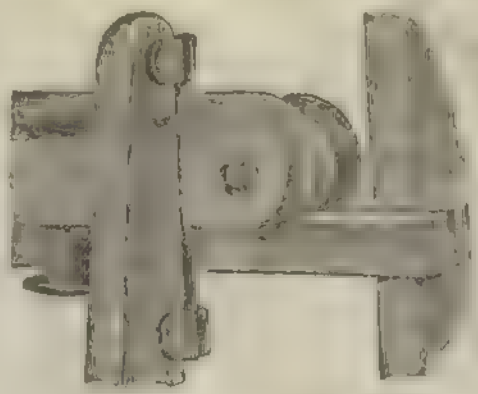
LADDER PLATFORMS

For Use where Stock is to be Put Up, Taken Down or Rearranged. It is Large Enough for Use to Stand on Conveniently and Allows the Free Use of Both Hands; it can be Attached at any Height Desired and will be Found Very Handy wherever Rolling Ladders are Used; it is Absolutely Safe.

Each

No. 31P—Solid Oak Platform, Nickel Plated Hangers, Weight 4 lbs. **$4.00**

LADDER TRACK



SPECIAL WOOD TRACK

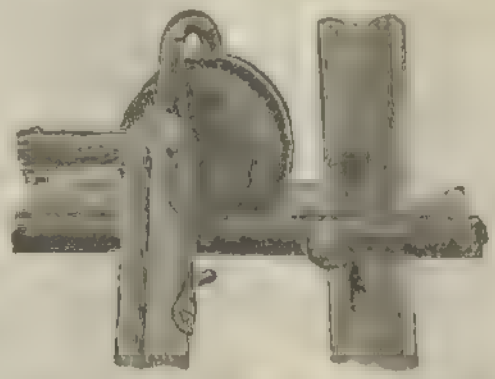
Hard Dry Maple; Finished to Match Ladder; Adapted for Ladders which Run on the Floor; Requires no Special Shelf or Arrangement.

Per Foot

No. 2WT—For Ladder No. 2; Weight per Foot 2 lbs. **$0 30**

STEEL TRACK

Made of Round Steel Tubing; For Ladders Nos. 1, 3, 4, Shown on Previous Pages.



Showing Face Bracket No. 7; For Uprights 2 inches or Wider

Per Foot

No. 1R—Regular, for Use on Steel Track for Uprights to which Brackets are Fastened Lengthwise of Upright, Complete with Required Screws, Weight per Foot 1 lb. **$0 50**

Showing Upright Bracket No. 8; Specially for Uprights Less than 2 inches Wide.

Per Foot

No. 1H—Extra Strong; for Use on Shelving where Uprights are More than Four Feet Apart; Can be Used with Brackets 5½ feet Apart; when Uprights are More than 5½ feet Apart it is Necessary to also Use No. 9 Bracket Shown Opposite, between Uprights, Weight per Foot 1½ lbs. **$0 40**

HOW TO ORDER STEEL TRACK

The Longest Length of Steel Track Made is 18 feet; if Track is to be Longer than 18 feet, Two or More Lengths are Joined Together; Furnished in Such Lengths as Will Leave Joints Over Center of Uprights or Partitions in Shelving, which will Bring the Joints Over Brackets. The Difference Between Length of Track and Length of Shelving Must Not Exceed 3 inches; Short Track for the Entire Line of Shelving.

First—Give the Entire Length of Each Line of Shelving.

Second—Measure from Outside of One End of Shelving to Center of an Upright or Partition Nearest to, but Inside of 18 feet from Starting Point; Give this Measurement, then Begin from the Center of the Last Upright or Partition Measured to, and again Measure to the Center of the Next Upright or Partition Nearest to, but Inside of 18 feet from Starting Point, and so Continue to Measure for as Many Lengths as are Required.

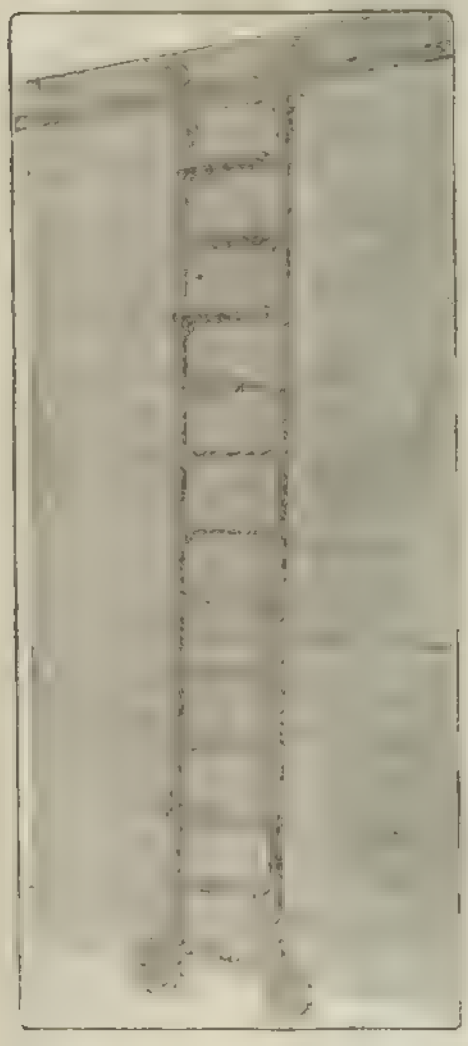
ROLLING STORE LADDERS

✣WILCOX

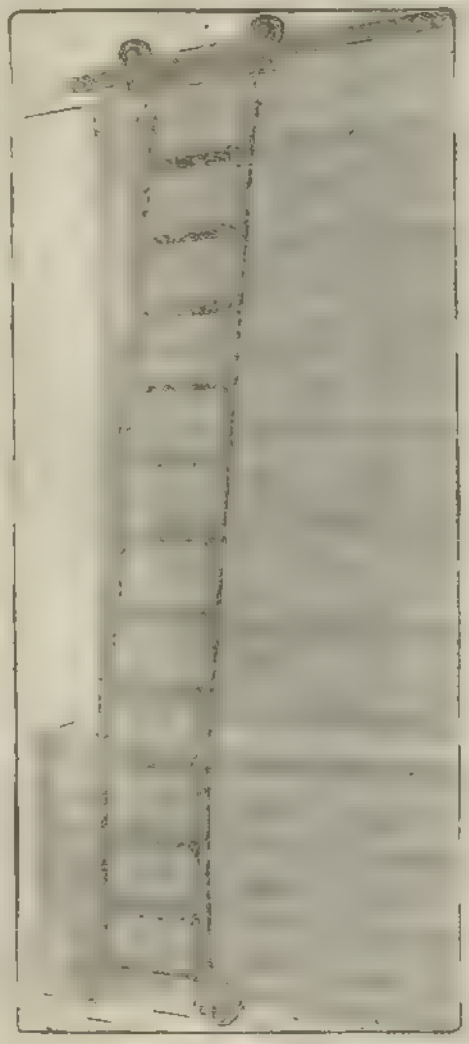
MADE TO ORDER ONLY

Steel Tubing Sides—Wood Steps

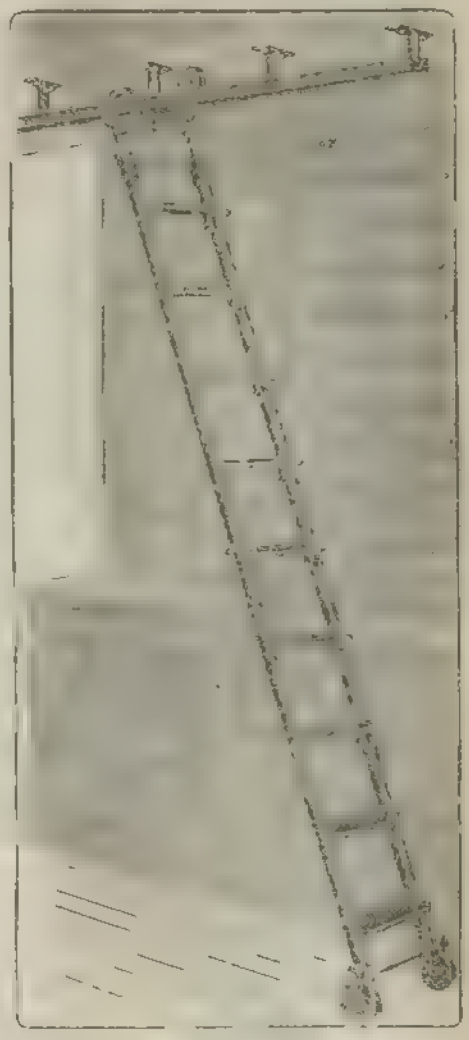
Sides are Made of Steel Tubing, Steps are Made of Oak, 14 inches long, and are Furnished with Adjustable Fixtures Attached, which Fit into the Steel Tubing Sides. Steel Tubing is Furnished in Any Length to Order and Can be Spaced to Any Length Wood Steps May be Spaced Any Distance Apart. Steps at Any Angle Desired. Ladders are Interchangeable for Side or Ceiling Attachment. Top Fixture is Adjustable Vertically to Allow for Unevenness of Floor, Easily Operated, Absolutely Noiseless; Use Single Track for Side Ladders, Double Track for Ceiling Ladders.



STRAIGHT—SIDE



BENT—SIDE



STRAIGHT—CEILING

Each	Each	Each
✣ No. B529—Straight Steel, with Oak Steps, Complete with Fixtures $18 00	✣ No. B529—Bent Steel, with Oak Steps; Complete with Fixtures $20 00	✣ No. 529—Steel with Oak Steps; Complete with Fixtures $20 00

Average Shipping Weight Complete 60 lbs.

Per Foot
✣ No. 529WT—Single Wood Track, for Side Ladders; Weight per Foot 1½ lb $0 30
✣ No. 529CT—Double Wood Track, for Ceiling Ladders; Weight per Foot 1 lb .30

To Order Straight Ladders

Give Distance from Floor to Point where Track is Secured.

To Order Bent Ladders

Give Distance from Floor to Top of Ledge, Distance Ledge Projects Beyond where Track is Secured, and Distance from Top of Ledge to Point where Track is Secured.

To Order Ceiling Ladders

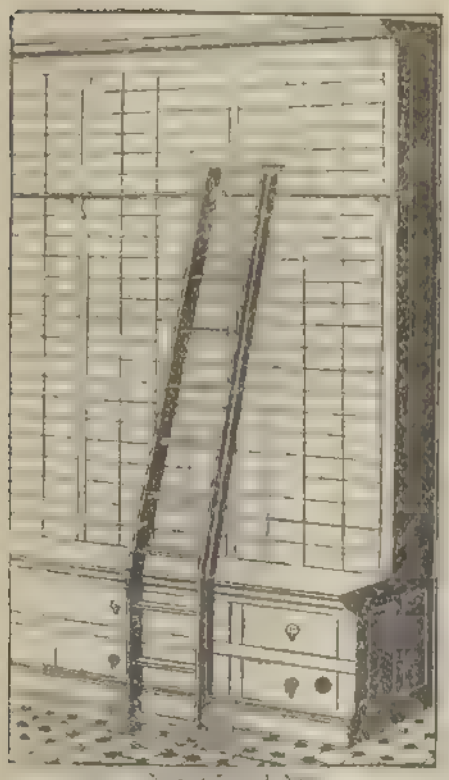
Give Distance from Floor to Ceiling.

Items Marked ✣ Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory, Aurora, Ill.

+ROLLING STORE LADDERS

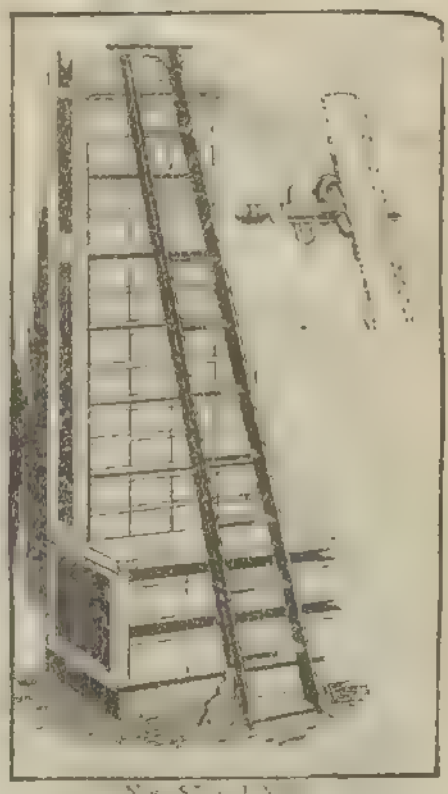
MADE TO ORDER ONLY

BICYCLE



Nos. [illegible] and No. [illegible]
Bent Floor Ladders.

Nos. [illegible]
Bent Base Ladders.



Nos. [illegible] and [illegible]
Straight Floor Ladders.

Made of Selected Oak, Natural Finish, Varnished

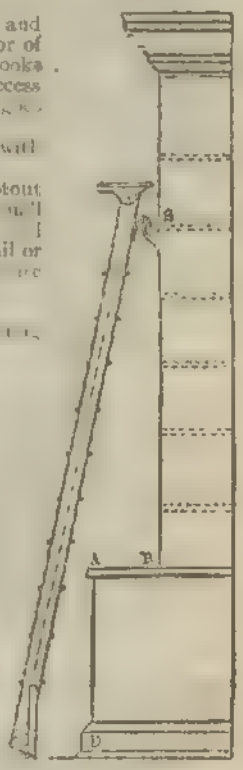
In these Styles the Track is at the Bottom, either on the Base Shelf or on the Floor, so that the Entire Weight of the Ladder and Operator is supported from below on Solid Foundation, and not Suspended. Relieving all Liability of the Ladder Falling, or of Sagging the Shelving. The Top [illegible] is a Light Turned Pole to Guide the Upper End of the Ladder in Moving It; Stout Hooks [illegible] over this Pole to Prevent the Ladder from Tipping Backwards, but not a Pound of Weight Rests on this Pole. The Great Success of [illegible] Bicycle Ladder is in the User Stands Directly Over the Wheels [illegible] no Side Friction at All [illegible] the Ladder [illegible] as any other Bicycle.

[illegible] Extra Wide [illegible] the Upper Corners are Hardened [illegible] Wheels are Provided with Fenders to Prevent them from Running Over Any Object, however small, that may have been Left in their Way.

The Track for Bicycle Ladders is a Double Track. At the Upper part of the Shelving a Neat Turned Pole is Attached by Stout [illegible] Pencil and the Upper Guide is a little more than One Inch in Diameter. The Lower Track may be either "Noiseless" Fibre Rail or [illegible] either Nickel-Plated or Japan Finished.

The Track for the Floor is so Small, (but three-sixteenths of an inch in height) that it can cause No Inconvenience.

[illegible] Off the Track Unless they are Lifted Off.



LADDERS ONLY	Each
+ No. 65—Bent Floor Style; Japanned Mountings	$24 00
+ No. N65—Bent Floor Style, Nickel Plated Mountings	27 00
+ No. 75—Bent Base Style; Japanned Mountings	24 00
+ No. N75—Bent Base Style; Nickel Plated Mountings	27 00
+ No. 85—Straight Floor Style; Japanned Mountings	22 00
+ No. N85—Straight Floor Style; Nickel Plated Mountings	25 00

Nos. [illegible] and N85 Ladders Do Not Require Floor Tra[illegible]

LADDER TRACK ONLY	Per Foot
+ No. 5 [illegible] Steel Lower Track; Bronzed; Complete with Wood Upper Track and Japanned Brackets; Adapted to No. 65 Ladders	$0 40
+ No. N5—Steel Lower Track; Nickel Plated; Complete with Wood [illegible] and Nickel Plated Brackets; Adapted to No. N65 Ladders	60
+ No. 7—Noiseless Ebony [illegible] Lower Track; Complete with Wood Upper Track and Japanned Brackets; Adapted to No. 75 Ladders	50
+ No. N7—Noiseless Ebony Lower Track; Complete with Wood Upper Track and Nickel Plated Brackets; Adapted to No. N75 Ladders	.60
+ No. 9 [illegible] Lower Track, Complete with [illegible] Adapted to No. 85 Ladders	30
+ No. N9 [illegible] Lower Track, Complete with [illegible] Adapted to No. N85 Ladders	40

HOW TO ORDER BICYCLE LADDERS

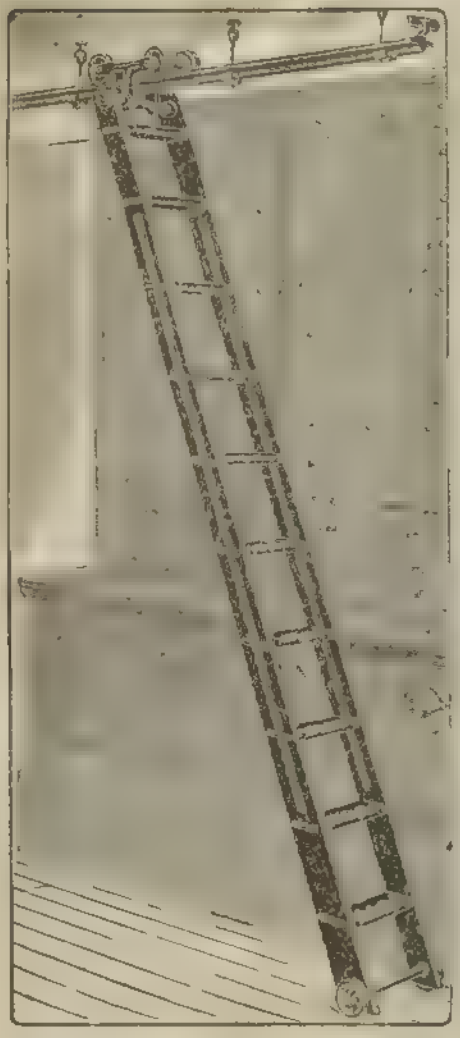
In [illegible] at the top of the page, give the following [illegible] State which Number Ladder is Desired, what [illegible] and [illegible] State [illegible] to the number [illegible] shelving, and say whether solid uprights, partition boards, turned spindles or iron brackets are used to support the shelving.

+ Items Marked + Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

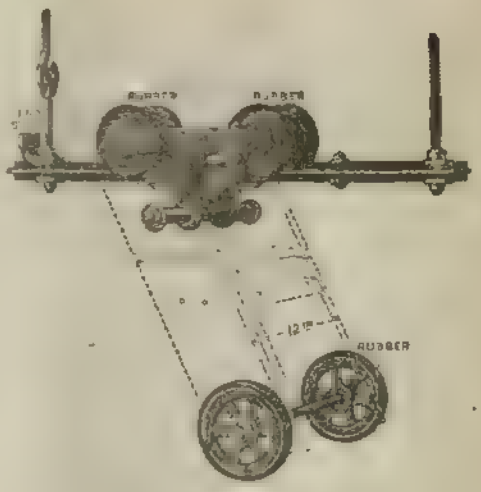
✣STORE LADDERS

MEYERS

TROLLEY OR CEILING



Ladder is Made of Clear Georgia Pine, Filled and Varnished; Open Panel Sides 5 inches Wide; Steps 3 inches Wide; Width of Ladder 12 inches; Each Step is Supported at Each End with a Malleable Iron Dowel Tee, which Makes an Extra Strong Construction; The Trolley is Self Adjusting; Fitted with 3 inch Anti-rattler Wheels, Lathe Turned and Bored and Fitted with Cushion Rubber Tires and Turned Steel Bearings. The Track is Double Angle Steel Rail, Suspended from the Ceiling by Lag Screws; Complete with Clamps, Brackets and End Stops; Can be Suspended by Jointed or Rigid Hangers, or Screwed Close to the Ceiling with Flanged Plates; Can be Used on an Uneven Ceiling without Blocking or Bridging.



Enlarged View of Trolley Track and Lower Rollers

The Floor Wheels or Travelers are 5 inches in Diameter, Made with Metal Sides, Fitted with Cushion Rubber Tires, Clamped in Such a Position that they Cannot Become Loose; these Rollers are Placed on a Steel Axle and Run Without Friction or Noise.

	Each
No. ML —Myers Ladder Complete with Attachments; Average Shipping Weight 50 lbs.	$30 00
	Per Foot
No. MT —Myers Steel Trolley Track Complete with Hangers; Weight per Foot 2 Lbs.	$0.55
No. ELW —Extra Lower Wheel or Traveler, for Myers Trolley or Ceiling Ladders; Weight Each 9 ozs.	2.40
	Per Pair
No. ERTL—Extra Rubber Tires, for Lower Wheels or Travelers; Weight per Pair 6 ozs.	$2 80
	Per Set
No. ERT —Extra Rubber Tires, for Upper Trolley; (In Sets of Four) Weight per Set 9 ozs.	$5.60

To Order Myers Ladders Give Exact Height to Ceiling and Length of Each Track; if Height of Ceiling Varies, Give Height at Each End and Center of Each Run of Track.

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory.

Modern Electric Street Lighting

A Discussion of Incandescent and Arc Lamps from the Standpoint of Illumination

By S. L. E. Rose and H. E. Butler

THE earliest form of street lighting consisted of lamps placed in the windows of houses for certain specified hours each night, and probably the first street lighting company on record was organized by an Italian abbot, Landati Caraffa, in Paris, about the sixteenth century, whereby torch bearers were furnished to guide people thru the streets at night, for which a fixed charge per hour was made. The next development was street lanterns, and as early as 1745, it is said, reflectors were used on these lanterns.

In 1879, Thomas A. Edison perfected the electric incandescent lamp, and shortly after lighted the roads and paths at Menlo Park, which was probably the first incandescent electric street lighting system in this country. It was not until about 1900, however, that incandescent electric lamps were extensively used in street lighting.

About 1880 Thomson brought out the open arc, which gave a great impetus to street lighting by electricity. This was followed by the enclosed arcs, which were placed on the market about 1895 and marked a step forward in electric lamps for street lighting.

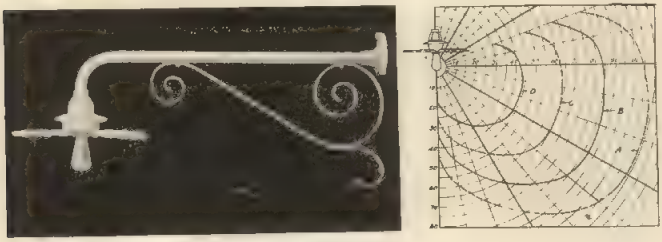
In 1905, the luminous or magnetic arc lamp was developed; this was a distinct advance both in efficiency and light distribution. The improvement since that time has been mostly in electrodes and minor changes in the lamp itself.

It was about 1908 that tungsten filament lamps were first used for street lighting, and the growth since that time has been rapid. In 1911 the tungsten filament, or Mazda, lamps, as they are now called, were available in sizes up to 350 candle-power, while in 1916 lamps of 1,000 c. p. were in common use, and to-day 1,500-c. p. lamps are being used in some places. A study of the advances in efficiency made both in incandescent and arc lamps shows that the enclosed flame arc is slightly higher in overall efficiency than the luminous arc. In street lighting, however, overall efficiency is not always the deciding factor. Other factors, such as maintenance, operation, candle-power distribution, and available accessories, such as the prismatic refractor, etc., enter into the problem, with the advantage in favor of the luminous arc or Mazda lamp. Very few systems of street lighting with flame arc lamps were ever installed in this country, and this lamp is now practically obsolete as a street lighting unit. Furthermore, the flame arc was available only in one size, and, therefore, adapted for only one class of lighting where large units could be used.

So long as incandescent lamps were not available in large candle-power units, the arc lamp had no serious competitor for street lighting. With the advent of the large incandescent series lamps, however, conditions were changed, and to-day units suitable for all classes of street lighting are available in both arc and incandescent lamps. The selection is usually governed by local conditions.

Probably the greatest advance in street lighting accessories was the development of the Holophane prismatic refractor, which gives a control of light distribution hitherto unattainable. It can be used on either arc or incandescent lamps, its use being made possible by the fact that with the magnetite arc lamp the arc does not travel down as far as it does on the open and enclosed carbon arcs, and with Mazda lamps the filaments have been concentrated into a much smaller space than on the older incandescent lamps.

Utilitarian lighting is usually accomplished by means of pendant units mounted on bracket arms along one side of the street, while for ornamental lighting the units are mounted on the tops of poles and placed on both sides of the street, arranged either parallel or staggered. As the name implies, an ornamental system uses diffusing or other ornamental glassware, and the esthetic effect is obtained by some sacrifice in the efficiency of the unit. In a system of this kind, the upper stories of the buildings receive light from the unit and the



FLAT RADIAL WAVE REFLECTOR UNIT WITH THE LIGHT DISTRIBUTION FOR VARIOUS SIZED LAMPS

street receives back some of the upward light by reflection and diffusion from the building fronts.

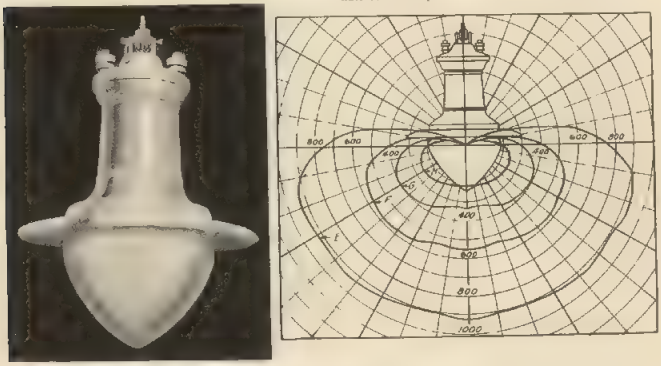
Obviously, intensities will vary with the class of service; i. e., outlying districts will not require as high an intensity as important residence streets, and the residential districts will not require the intensity of the business districts. In the various districts the important streets are usually given preference over the side streets as regards intensity of illumination.

The following table gives an indication of the illumination intensities required for various classes of service, but local conditions may necessitate a variation from these values, and a further development of the art may see them materially increased, as evidenced by some recent western installations:

	Average Horizontal Illumination Foot candles*
Principal streets in cities	0.25 to 1.00
Important side streets	0.10 to 0.25
Residence streets	0.01 to 0.05
Suburban roads ..	0.005 to 0.01

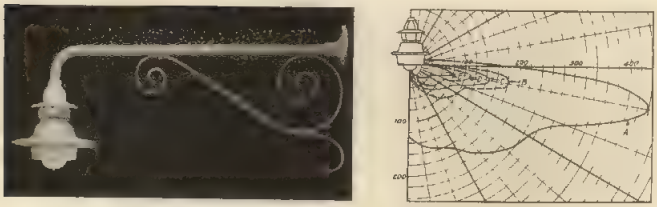
In using this table it should be borne in mind that the color or reflecting power of the pavements and buildings has a marked effect on the illumination of a street. Buildings or pavements having dark-colored or dirty surfaces require a higher intensity of illumination than those having light-colored surfaces, in order to appear equally well lighted.

*Illumination is expressed in *foot-candles*. A *foot candle* is the normal illumination produced by one unit of candle-power at a distance of one foot



PENDANT UNIT WITH DIFFUSING GLASS GLOBE AND REFLECTOR

Note spherical distribution of light generally below the horizontal



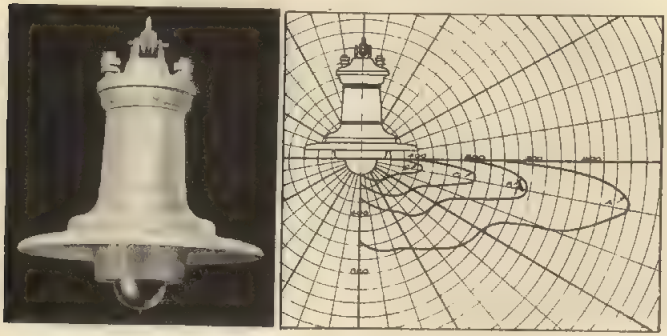
PRISMATIC REFRACTOR UNIT WITH LIGHT DISTRIBUTION CURVES

Clear glass globes are seldom seen to-day on large candle-power units, on account of the high intrinsic brilliancy of the light sources, but if clear glass globes are used, the units should be suspended as high as local conditions will permit. Diffusing glass globes or similar glassware will reduce the glare, and, tho lowering the efficiency of the unit as a whole, they may increase the ability to see.

Ornamental or "white-way" installations are becoming more and more popular as advertising features for cities. Business men realize the advantages of an ornamental lighting system in attracting crowds to their street and are usually willing to help financially in the installation. Civic improvement leagues and associations also realize the advantage to their city in such a system and usually support the movement

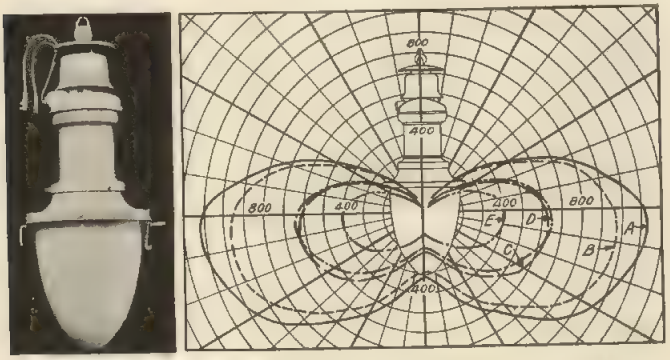
Street Lighting with Series Lamps

One of the most efficient methods of lighting streets to-day is the series incandescent lamp. It can be equipped with a variety of accessories suitable for all types of outdoor lighting, from the rural highway type to the so-called "white-way" or ornamental system in a business district. Various equipments of glassware and reflectors, together with a wide range of candle-power sizes, give a flexibility which adapts this lamp to almost every condition to be met in street lighting service. Never before has there been so large a number of units to select from, which will meet both small and large appropriations and give satisfactory results.



PENDANT UNIT WITH PRISMATIC REFRACTOR AND REFLECTOR

Light is here given a greater horizontal component



PENDANT TYPE LUMINOUS ARC LAMP WITH DIFFUSING GLASS GLOBE

Data on Incandescent Series Lamps

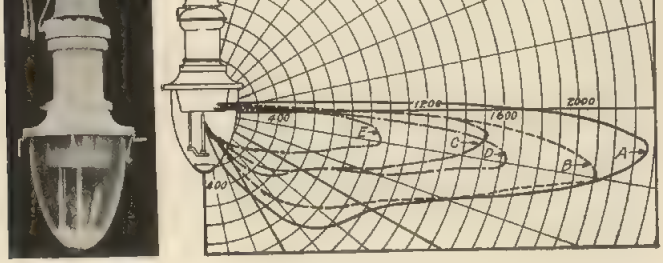
Nominal Rated Candle-Power	Total Lumens*	Watts 6.6 Amperes	Watts 7.5 Amperes
40	430	35	36
60	660	46.8	48
80	860	60	60
100	1060	72	72
250	2600	156	147
400	4000	244	228
600	6000	368	344

* The total flux of light from a source is equal to its mean spherical intensity multiplied by 4π (12.57). The unit of flux is called *lumen*. A *lumen* is the $\frac{1}{4\pi}$th (0.0795) part of the total flux of light emitted by a source having a mean spherical intensity of one candle power.

For outlying and residence districts, especially where shade trees line the streets, small units, which can be hung low and spaced at frequent intervals, will give better results than large units spaced at relatively long intervals.

Street Lighting with Arc Lamps

The most efficient and useful arc lamp for street lighting to-day is the direct-current, series, luminous or magnetite arc lamp. It is economical to maintain and reliable in operation. It is made in two types, one for pendant lighting and one for ornamental or "white-way" lighting. It can be equipped with clear or diffusing glassware, or with a prismatic refractor. Long-life and high-efficiency electrodes are avail-



PENDANT TYPE LUMINOUS ARC LAMP WITH PRISMATIC BAND REFRACTOR

Showing the characteristic horizontal diffusion of the light

able which, when operated at various currents, give a wide range of candle-power to this unit.

Data on D. C. Series Luminous Arc Lamps

Pendant Type		Ornamental Type	
Amperes	Watts	Amperes	Watts
4	310	4	330
5	388	5	403
6.6	510	6.6	532

Street Lighting Contracts

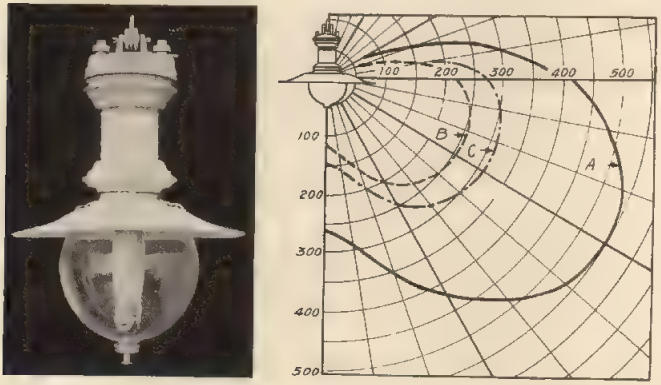
A great deal of trouble and misunderstanding between central station and city officials has been caused in the past, where the lighting plant is not municipally owned, by street lighting contracts not being specific enough. This matter has been receiving more and more attention by the national engineering societies and by various states.

Committees have endeavored to draft model contracts that would serve as guides, but the work is not so easy of accomplishment as it might seem, owing to the different conditions prevailing in various localities.

A great many factors that enter into this problem make it extremely difficult to draft a satisfactory street lighting contract. This condition results from the wide diversity of opinion as to what constitutes good street lighting and as to what is the best basis upon which different systems may be fairly and equitably compared. Some favor uniform over non-uniform lighting; some favor staggered over parallel arrangement of units; and some favor hanging the units over the center of the street instead of along the curb line. What are the relative advantages of each of these it is rather difficult to state on account of the lack of sufficient data and because what is best in one case may be entirely unsuitable in another, on account of a change in conditions.

Interior lighting practice is standardized to a great extent. There is a fairly close agreement as to the intensities required for various classes of interior lighting, but street lighting practice is not so well standardized, nor is it likely to be until the problems mentioned previously, and many others, have been solved. It is usually not a question of how much light should be given to this street or that, but on what will be the irreducible minimum, or of accommodating the street lighting system to an appropriation which is usually much too small

It is quite generally agreed that the best method of comparing lamps or lighting units as regards their efficiency as light generators is on the basis of total lumens per watt (spherical candle-power x 4π). The total lumens will be a maximum when



ENCLOSED CARBON ARC LAMP WITH LIGHT OPAL GLASS INNER GLOBE, CLEAR GLASS OUTER GLOBE AND STREET REFLECTOR

the lamps have the least possible equipment; they will be greater with a clear globe than with a diffusing globe, and will gradually decrease as equipment is added. It can, therefore, be readily understood that it would be unfair to compare two units for efficiency, one having a clear globe and the other a diffusing globe. Obviously, the total lumens will vary with different densities of diffusing globes. Before writing contracts, therefore, it is advisable to know the energy consumed and the characteristic candle-power distribution of the equipment it is proposed to use. These can best be obtained in a properly equipped laboratory. The contract should specify the lamp equipment, operating conditions, etc., and if the specifications are complied with, the city will get its full measure of illumination. It is a comparatively simple matter to check up the energy consumed, but the making of satisfactory candle-power or illumination tests in the street is both difficult and expensive, especially during the winter months,—and that is when the lights are most used. There are some variations in individual lamps and equipment from the ideal aimed at in manufacture, and the contract should not be too rigid and should not impose unnecessary restrictions on the central station, or the increased cost of service will be more than the supposed advantages are worth.

Advances in the art may make a change desirable, and some means of doing this should be provided for on a fair and equitable basis to both parties. It would seem as if the best service and lowest rates can be obtained only by a close coöperation between all the parties concerned before the contract is written and signed.

EDITORIAL NOTE.—The material for this article, including the illustrations, is used by courtesy of the *General Electric Review*.

Sootless Saturdays

By W. A. Mohrbacher
Chief of Fire Department, Cedar Rapids, Iowa

COALLESS Mondays, meatless Tuesdays, wheatless Wednesdays, porkless Saturdays—how about sootless Saturdays?

Our citizens are loyal in their efforts to conserve fuel, meat and wheat, and to economize along almost every line, but they seem to forget about "conserving" by preventing the total consumption—the entire wiping out— of their homes by fire, to say nothing about conserving on expenses incident to the calling of the fire department.

Every time the fire department answers an alarm there is an expenditure of the taxpayers' funds in the wear and tear on the apparatus, in the use of gasoline for motor apparatus and in the upkeep of the teams in use by the department. Then there is also the ever-present possibility of accidents and their dire results. During the month of December the fire department of Cedar Rapids answered 71 fire alarms, and of that number 31 could be traced to soot that had accumulated in flues since the weather became cold enough for furnace fires. Most of these alarms came from neighborhoods where modern furnace-heated homes predominate.

Students of fire prevention account for these alarms as being due to the desire for quick, hot fire in furnace-heated homes. Soft coal is used, the drafts are all opened, and red-hot soot is carried out by the draft onto a wooden shingle roof. The result is a fire alarm and the attendant expenditure of the taxpayers' money. Of course, the fire department is commissioned to answer fire alarms and not to worry about how taxes are spent, but the living conditions of every one of us are affected by such waste and loss as this, and there is always the danger that some time the department may be out at a chimney fire and a real fire will start which might be controlled if the department could get the water onto it without delay.

Many patent soot removers are on the market, chimney sweeps are available, and the people can burn scraps of zinc in the furnace, which will help remove the soot without blowing it out as a chunk of red-hot coal upon the roof.

Saturday is suitable for a set-to against soot, so let housekeepers devote the day to this phase of conservation.

Handlan Perfection Torches

Engineers' Torch

No. 164. Sheet brass, Per Doz $18 00

No 164 Sheet brass, nickel plated Doz $21 00

Asbestos asbestos etc $3 00 to list price

Linamen's Torch, Cast Brass Top

No 10½ Made of LXX tin Per Doz $15 00

No 10½. Made of polished brass Per Doz $21 00

Sealing Torch for Sealing Purposes

Burns Alcohol

No 20 Capacity one pint Per Doz $
No 30 3½ inch diameter, pint capacity Per Doz
No 40 Capacity one quart Per Doz

Furnace Torches

No. 1

For outdoor use, tinsmiths, roofing men, plumbers, gas fitters and others whose work is largely out of doors, practically indestructible. No solder used in its construction.

No. 1 Holding 3 pints Per dozen $15 00
No. 2 Holding 2 pints ...Per dozen 15 00

Engineers' Torches

No. 14

An extra heavy torch. Asbestos lined to prevent heat from burning the solder. Brass body, tinned inside and out. Has a large filling opening, protected by a brass cap. Made of heavy gauge metal throughout.

1 pint Per dozen $12 00
1 quart Per dozen

Brazed Steelware

Tallow Pots and Oil Fillers

Fig. 2

1-quart	per dozen	$13 00
3 pint	per dozen	14 00
2 quart	per dozen	15 00
3 quart	per dozen	17 00
4 quart	per dozen	18 00

With strainers 75 cents per dozen, net, additional
Other sizes to order

Heavy Steel Oil Fillers

Pyramid Shape

Fig. 3

1 pint	per dozen	$ 9 00
1-quart	per dozen	10 00
2 quart	per dozen	12 00
3 quart	per dozen	14 00
4 quart	per dozen	18 00

With strainers 75 cents per dozen net, additional
Other sizes to order

Supply Cans for Carrying Oil

Sheet Metal Screw Top

Fig. 4

½-gallon	each	$1 75
1-gallon	each	2 00
2-gallon	each	2 50
3-gallon	each	3 00
4-gallon	each	3 50
5-gallon	each	4 00
5 gallon with spigot	each	4 50

Other sizes to order

Supply Cans for Carrying Oil

Milk Can Top

Fig. 5

1-gallon	each	$2 50
2-gallon	each	3 00
3-gallon	each	3 50
4-gallon	each	4 00
5 gallon	each	4 50

With strainer, 25 cents each extra.

Brazed Steelware

Grease Buckets

Fig. 6

	With Rim	Plain
1-gallon	each $2 25	each $1 75
2-gallon	each 2 50	each 2 00
3-gallon	each 3 00	each 2 50
4-gallon	each 3 50	each 3 00
5-gallon	each 4 00	each 3 50

A similar with hinged lid Prices on application

Other sizes to order

Screw Top Torch Lamps

Pyramid Shape, One Burner

Fig. 8

1-pint. . . . . per dozen	$ 9 00
1-quart. . . . . per dozen	10 00
2-quart. . . . . per dozen	12 00
3-quart. . . . . per dozen	13 00
Extra cap, chain and hook. . . . . per dozen	1 00

With hook on side, add $1 00 per dozen to list

Other sizes to order

Wrought Iron Top Burner R. R. Hand Torch

Fig. 7

1-pint. . . . . per dozen	$ 9 00
1-quart . . . . . per dozen	10 00
2-quart . . . . . per dozen	12 00
3-quart . . . . . per dozen	13 00
Extra burners per dozen	1 20

Other sizes to order

Screw Top Torch Lamps

Pyramid Shape, Two Burners

Fig. 9

1-pint . . . . . per dozen	$10 00
1-quart. . . . . per dozen	11 00
2-quart. . . . . per dozen	13 00
3-quart . . . . . per dozen	14 00
4-quart. . . . . per dozen	15 00
4-quart, 3 or 4 burners. . . . . per dozen	18 00

For 3 burners, add $2 40 per dozen to list prices

Other sizes to order

Brazed Steelware

Broad Top Torch Lamps

One Burner

Fig. 1

1-pint	per dozen	$ 9 00
1-quart	per dozen	10 00
2-quart	per dozen	12 00
3-quart	per dozen	13 00

Other sizes to order

Broad Top Torch Lamps

Two Burners

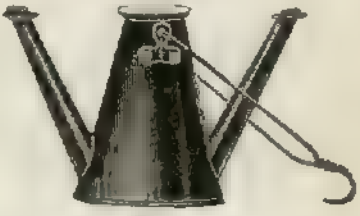


Fig. 11

1-pint	per dozen	$10 00
1-quart	per dozen	11 00
2-quart	per dozen	13 00
3-quart	per dozen	14 00
1-quart	per dozen	15 00
2-gallon	per dozen	24 00

For 3 burners add $2.40 per dozen to the list

For 4 burners, add $4.80 per dozen to the list

Other sizes made to order

Brazed Steel Engineers' or Locomotive Torch

Fig.

1-pint	per dozen	$ 9 00
1-quart	per dozen	10 00

Brazed Steelware

Pyramid Oilers

Fig. 12½

1-pint	per dozen	$ 9 00
1 quart	per dozen	10 00
2-quart	per dozen	12 00
3-quart	per dozen	15 00
4 quart	per dozen	17 00

Other sizes made to order

Broad Top Oilers

Fig. 13

1-pint	per dozen	$12 00
1 quart	per dozen	13 00
2-quart	per dozen	15 00
3-quart	per dozen	17 00
4 quart	per dozen	19 00

Other sizes made to order

Fig. 14

Mammoth Oilers

1-quart	per dozen	$16 00
2 quart	per dozen	18.00
3-quart.	per dozen	21 00
4-quart	per dozen	24 00
6-quart.	per dozen	27 00

Extra spouts, $3 00 per dozen.

Other sizes to order.

Pit Car Oilers

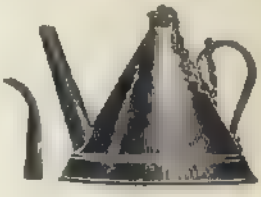


Fig. 15

1-pint	per dozen	$ 8 00
1-quart	per dozen	10 00
2-quart	per dozen	12 00
3-quart	per dozen	14 00
4-quart	per dozen	18 00

Extra spouts, $3 00 per dozen

Other sizes made to order

Everlasting Brazed Steel Bench Oiler

Fig. 16 (Patented) Fig. 17

Heavy drop forged body. The bottom will never lose its position. With brazed steel bottoms. Guaranteed for five years' service.

No	Size	Diameter Inches	Nozzle Inches	Each	No	Size	Diameter Inches	Nozzle Inches	Each
204	½-pint	2¾	4	$5 00	406	½ pint	4½	6	$4 50
206	½ pint	3¼	6	5 50	408	½ pint	4¾	6	5 00
209	½-pint	3½	9	6 00	504	1 -pint	4½	4	5 00
304	pint	3¾	4	6 00	506	pint	4½	6	5 50
306	pint	3¾	6	6 50	509	pint	4⅝	9	6 00
309	pint	3¾	9	7 00	512	1 pint	4⅝	12	6 50
404	½ pint	4¼	4	7 00					

Everlasting Brazed Steel Locomotive Oilers

No	Size	Diam Inches	Height Inches	Nozzle Inches	Per Doz	No	Size	Diam Inches	Height Inches	Nozzle Inches	Per Doz
186	1½ pint	4	5	12	$16 50	264	1 quart	4	5	12	$17 00
188	1½ pint	4	5	23	17 00	166	1 quart	4½	5	23	18 00

"OFFICIAL" INDOOR BASEBALL

Made of a lively material which we guarantee will not beat up soft and mushy Guaranteed to last a game of nine innings without ripping or losing their shape
Adopted by all the leading leagues.

No. 114—14 in., 7 to 7⅛ oz..Per dozen $23 00
No. 214—14 in., 7 to 7⅛ oz..Per dozen 17.00
One Dozen in a Box

RECREATION OR HOUSE BALL

Per dozen
No. 300—9 in., horsehide cover.....
No. 400—8¼ in., waterproof cover..... 4.00
Twelfth Dozen in a Box

REACH'S CATCHERS' MITTS

Finest quality Brown Reaco calfskin. The faces of this mitt is moulded into shape from one piece of choicest leather, making the wearing surface extra strong and preventing the possibility of tearing or ripping

No. 6A.....Per dozen $160.00
Twelfth Dozen in a Box

Made on patented moulded model. Finest pearl colored Reaco calfskin. Ox-blood trimmings.

No. 3A.....Per dozen $144.00
Twelfth Dozen in a Box

REACH'S CATCHERS' MITTS

Face, back and fingers, finest black Reaco calfskin; strip of brown Reaco calfskin Brown and red binding

No. 2B.....Per dozen $132.00
Twelfth Dozen in a Box

Made on patented moulded model; finest olive Reaco calfskin. Brown binding.

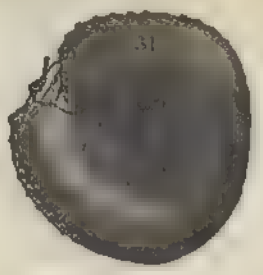
No. 32.....Per dozen $132.00
Twelfth Dozen in a Box

Patented moulded model. Made of the finest black Reaco leather. Ox-blood binding

No. 30.....Per dozen $96 00
Twelfth Dozen in a Box

Face and finger made of brown calfskin, with black leather strip, and back. Patent sole leather finger protector. Olive welt, brown binding

No. BX.....Per dozen $80 00
Twelfth Dozen in a Box



Made entirely of brown tan leather on patented moulded model. Ox-blood binding.

No. 31.....Per dozen $80 00
Twelfth Dozen in a Box

Face and finger of black calfskin with black calfskin back and strip. Brown welt and binding.

No. BN.....Per dozen $64 00
Twelfth Dozen in a Box

Face and fingers drab suede calfskin, back and strip of finest brown tan leather; sole leather finger protector.

No. DD.....Per dozen $56 00
Twelfth Dozen in a Box

Black leather; sole leather finger protector Leather laced. Wine welt and binding

No. DN.....Per dozen $56 00
Twelfth Dozen in a Box

REACH'S CATCHERS' AND BASEMEN'S MITTS

CATCHERS' MITTS

Face and fingers, finest mouse colored calfskin, buckskin finish; back and strip, fine craven tan leather. Brown binding

No. 200.....Per dozen $48.00

Twelfth Dozen in a Box

Black leather. White welt and binding

No. 20N.....Per dozen $44.40

Twelfth Dozen in a Box

Face, fingers and strip made of pearl colored leather, craven tan leather back. Welted. Strap and buckle at wrist. New thin model.

No. 150.....Per dozen $40.00

Twelfth Dozen in a Box

Face, back, fingers, strip and face reinforcement of fine brown tan leather. Strap and buckle at wrist. New model

No. 125.....Per dozen $32.00

Twelfth Dozen in a Box

CATCHERS' MITTS

Made of fine olive tan leather, with brown tan strip. Strap and buckle at wrist. New model.

No. FPN.....Per dozen $24.00

Twelfth Dozen in a Box

Face, back and fingers made of fine black tan leather, strip of craven tan leather. New model. Large size.

No. 100.....Per dozen $20.00

Twelfth Dozen in a Box

Face and fingers made of brown tan leather, imitation leather strip and back. Laced

No. 75X.....Per dozen $15.00

Twelfth Dozen in a Box

Face and fingers made of brown tan leather, canvas back.

No. 65X.... ... . Per dozen $12.00

Quarter Dozen in a Box

CATCHERS' MITTS

Brown canvas face with leather reinforcement. Leather fingers, canvas back

No. 67X... ....Per dozen $9.00

Quarter Dozen in a Box

FIRST BASEMEN'S MITTS

Face made of heavy mouse colored calfskin, buckskin finish, back and lining of brown tan leather.

No. B.....Per dozen $40.00

Twelfth Dozen in a Box

Made of fine brown tan leather

No. 2B.....Per dozen $32.00

Twelfth Dozen in a Box

Made of fine craven tan leather

No. 3B.....Per dozen $24.00

Twelfth Dozen in a Box

REACH'S FIELDERS' GLOVES

This illustration shows the Reach Patented Diverted Seam—patented March 10, 1908—the greatest invention in gloves. The weakest part of a glove has been at the base of the fingers, where the seams assemble. We have strengthened this by diverting the seams so that they run up the side of the finger, thereby doing away with an extra seam at this point. This patented feature is used by us in all grades of gloves, making them the strongest on the market.

Drab Reaco buckskin leather lined

No. OBL .. . .Per dozen $72 00
Twelfth Dozen in a Box

Black Reaco calfskin leather lined

No. OBN.....Per dozen $72 00
Twelfth Dozen in a Box

Brown Reaco calfskin leather lined

No. 02.....Per dozen $72 00
Twelfth Dozen in a Box

Selected mouse colored, Reaco buckskin, full leather lined.

No. 00W. ..... Per dozen $66 00
Twelfth Dozen in a Box

Selected pearl colored Reaco calfskin, full leather lined
Right or left hand

No. 04..... .....Per dozen $66 00
Twelfth Dozen in a Box

Selected mouse colored buckskin, full leather lined. Our best seller in this grade.
Right or left hand

No. 56.....Per dozen $58 00
Twelfth Dozen in a Box

Selected ecru Reaco leather, full leather lined. Wine welt and binding. A good amateur glove.

No. 58.....Per dozen $45 60
Twelfth Dozen in a Box

Made of excellent quality black tan grain leather, welted and leather lined. A popular model.

No. 3GN.....Per dozen $38 40
Twelfth Dozen in a Box

Made of fine mouse colored leather, welted and full leather lined, on our OB model. Shows big value.
Right or left hand

No. 9G.....Per dozen $38 40
Twelfth Dozen in a Box

Made of excellent quality black tan leather, welted, palm leather lined, gold stamped Popular glove at the price.

No. 2N. ....Per dozen $32 00
Twelfth Dozen in a Box

Made of the finest mouse colored leather, palm leather lined. An exceptionally good glove at the price.
Right or left hand

No. 2G .. . .Per dozen $32 40
Twelfth Dozen in a Box

REACH'S FIELDERS' GLOVES, BODY PROTECTORS AND MASKS

FIELDERS' GLOVES

Made of fine brown tan leather, palm leather lined. This glove is the choice of a great many amateurs.

Right or Left Hand

No. 10G .....Per dozen $30.00

Twelfth Dozen in a Box

Made of fine black tan leather, palm leather lined, gold stamped. Splendid value in a black glove.

Right or left hand

No. 10N .....Per dozen $30.00

Twelfth Dozen in a Box

Men's size, black tan leather, welted, felt padded, with leather palm lining.

No. 54N.....Per dozen $24.00

Quarter Dozen in a Box

Men's size, pearl colored leather, welted, felt padded, leather palm lining.

Right or left hand

No. 18S .....Per dozen $18.00

No. 18—Same as No. 18S, only brown tan leather.....Per dozen 18.00

Half Dozen in a Box

FIELDERS' GLOVES

Men's size, brown leather face, Khaki canvas back, felt padded, Khaki lining

No. 18C .....Per dozen $13.00

Half Dozen in a Box

Youth's size, olive leather face, Khaki canvas back, felt padded

No. 19A .....Per dozen $8.50

Half Dozen in a Box

BODY PROTECTORS

No. 1P

No. 1AP

No. 1P—. ..... . .Each $8.50

Made of best rubber, covered with gray mixed cloth, quality guaranteed.

No. 1AP ..... .Each $7.50

Made of fine rubber, covered with olive cloth. Full size.

One in a Box

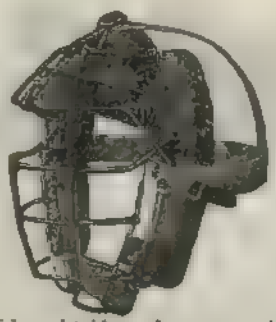
2 AP

2 P

No. 2AP—Made of a good grade of rubber, Khaki cloth covering, full size. Each..... $6.00

No. 2P—Made of heavy canvas, padded with best felt, full size. Each $3.00

One in a Box



The wide sight idea; the center wire being omitted enables the catcher to see much clearer. He can follow foul tips, watch the bases better, in fact he can see with this new style mask as good as if he had no mask on. Gun metal enameled heavy wire frame specially braced, fitted with sunshade.

No. WS.....Per dozen $112.00

Twelfth Dozen in a Box

Wide sight idea has neck protecting attachment. Made of extra heavy steel wire, fitted with patented green transparent sunshade

No. 10S.. . . ..Per dozen $72.00

Twelfth Dozen in a Box

"Reach Special"

Used by a great many league catchers. Made of extra heavy steel wire, fitted with patented green transparent sunshade.

No. 20S..... ..... Per dozen $58.00

Twelfth Dozen in a Box

"Association"

Made of heavy steel wire, fitted with patented green transparent sunshade.

No. 30S.....Per dozen $48.00

Twelfth Dozen in a Box

REACH'S CATCHERS' MASKS

Regulation

Heavy steel wire. Black enameled. Well padded. Patented sunshade.

No. 40S.....Per dozen $42 00

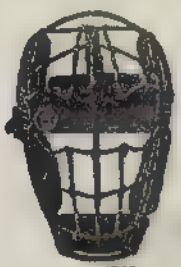
Twelfth Dozen in a Box

Amateur

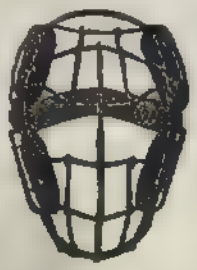
Full size, steel wire. Black enameled, well padded and strongly constructed. Fitted with patented green transparent sunshade and head band.

No. 50S.....Per dozen $23 20

Twelfth Dozen in a Box



No. XX



No 3M

Amateur

Size and general style of Association masks, of lighter bright steel wire, well padded and strongly constructed. Full size

No. XX.....Per dozen $20 40

Twelfth Dozen in a Box

Men's Amateur

Made of heavy black steel wire; well padded and finished in the best manner. No head or chin piece

No. 3M.....Per dozen $13 00

Quarter Dozen in a Box

YOUTHS' MASKS

Heavy black wire and well padded, without head or chin piece.

No. CM.....Per dozen $8 40

Half Dozen in a Box

BASE BALL SUNDRIES

BAT BAGS

Made of heavy khaki canvas, leather trimmed. Leather handle.

No. BB7—Capacity two bats.....Each $1 80

Six in a Box

Made of heavy brown canvas, leather capped on both ends. Leather handle.

No. BB5—Capacity two bats.....Each $2 50

One in a Box

Made of fine brown tan leather, well stitched, round leather handle, solid buckle.

No. BB4—Capacity two bats.....Each $3.20

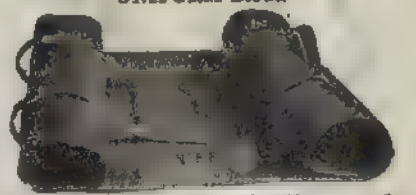
One in a Box

Made of extra strong heavy brown canvas, strap, leather trimmed.

No. BB1—Capacity twelve bats...Each $6 80

One in a Box

UNIFORM BAGS



The convenient packing of uniforms so they will not wrinkle and soil and yet be easily carried, is an important item to every player. Ours are substantially made, and have separate compartments for shoes, etc. Made of brown canvas and brown leather.

No. FF Brown leather.....Each $10 00

One in a Box

No. F—Brown canvas.....Each $6.00

One in a Box

HOME PLATES

Made according to league regulations, complete with pins.

No. HR—White rubber .....Each $14 00

No. HC—White composition ....Each 8 00

One in a Box

PITCHERS' BOX PLATES

Made according to league regulations, complete with pins.

No. PR—White rubber .....Each $9 00

No. PC—White composition .....Each 6.00

One in a Box

BASES

League, extra heavy double white canvas, well stuffed and quilted, extra strong straps. Three bases complete with spikes in a set

No. E1.....Per set $10 00

One Set in a Box

Amateur, heavy white canvas, well stuffed, strong straps.

Three bases complete with spikes in a set.

No. E3.....Per set $6 00

One Set in a Box

Special white canvas, not stuffed. Can be filled with sand, sawdust or hay and emptied after the game. Can be carried in a small space.

Three bases complete with spikes in a set.

No. E4.....Per set $2 00

One Set in a Box

BASE BALL SUNDRIES

ANKLE SUPPORTERS

Brown canvas, has patent stays in sides, very popular with college students.

No. 16—Boys' size 5.....Per pair $1.00

No. 16—Men's sizes 6 to 9 inc..Per pair 1.00

One Pair in a Box

Seamless leather front, elastic sides and web under foot. There is no lacing in front to chafe the instep, thus giving free instep movement. Can be worn under the stocking. Made of cotton, in three sizes—small, medium and large.

No. 90.....Each $1.50

One in a Box

ABDOMINAL SUPPORTERS

Reach Aluminum Abdominal Guard and supporter. Particularly adapted to boxers, wrestlers, base ball, foot ball, hockey and polo players. Are light and comfortable and do not interfere with the movements of the wearer, can be adjusted or removed quickly, held in place by elastic straps, well ventilated. Endorsed and used by all the players of the American and National Leagues. Thoroughly sanitary, can be washed after using.

No. 76.....Each $4.80

One in a Box

HARVARD SUPPORTER

The Harvard is the finest and most perfect fitting support made. It has elastic sides and has open mesh front strap, which is secured by snap fasteners. This support is adopted by all leading athletic and riding clubs.

Made in three sizes—small, medium and large.

No. 1.....Each $1.00

One in a Box

CATCHERS' LEG GUARDS

The knee guard is made of molded leather, with joints below the knee so the catcher can move freely. The material in shin part will turn the sharpest spikes; the ankle is protected by strong leather, reinforced with felt padding.

No. CG.....Per pair $7.50

One Pair in a Box

SHOE PLATES

Pitchers' toe plates, worn on the toe, and afford a thorough protection to the shoe. Made for right or left shoe. Used by all professionals and amateurs.

No. 5T—For left foot.....Per dozen $4.00

No. 5TR—For right foot.....Per dozen 4.00

Twelfth Dozen in a Package

One Dozen in a Box

The "Reach League," Nos. 2T toe and 2H heel plates, best quality steel, have specially sharpened points. Guaranteed not to bend or break.

No. 2T—Toe plates.....Per dozen pair $4.00

No. 2H—Heel plates.....Per dozen pair 4.00

One Dozen pairs in a Box

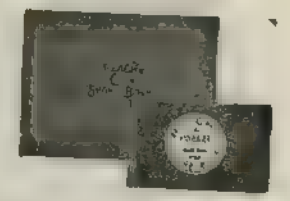
The "Reach Amateur," Nos. 6T toe and 6H heel plates, good quality steel, sharpened.

No. 6T—Toe plates.....Per dozen pair $1.50

No. 6H—Heel plates.....Per dozen pair 1.50

One Dozen pairs in a Box

SCORE BOOKS



No. 42B—Cloth cover, club size, holds records for 30 games.....Each $1.00

No. 22B—Cloth covers, pocket size, holds records for 22 games.....Each .50

No. 12B—Paper cover, pocket size, holds records for 7 games.....Each .12

One in an Envelope

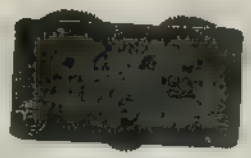
UMPIRES' INDICATORS

Celluloid, used by baseball umpires and scorers to keep tally of strikes and balls.

No. L.....Per dozen $8.00

Twelfth Dozen in a Box

SCORING TABLETS



Celluloid, a simple, convenient and accurate device for the recording of runs and outs.

No. 2.....Per dozen $4.00

Twelfth Dozen in a Box

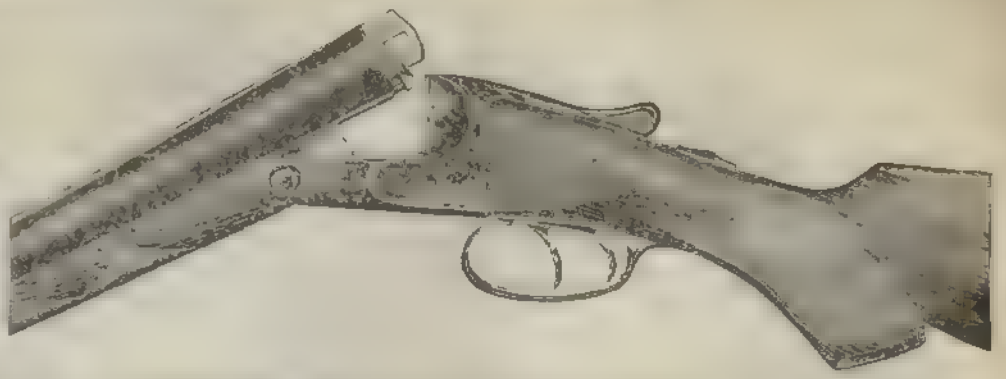
BASE BALL GUIDES

Each.....$0.14

Half Dozen in a Package

STERLINGWORTH HAMMERLESS SHOT GUNS

All Working Parts Made of Hardened Steel Drop Forgings, Finely Finished and Polished; all Parts Interchangeable; Heavy Compensating Rotary Bolt Through the Extension Rib; Coil Main and Top Lever Springs. Guaranteed Against Breakage for all Time. Guaranteed to Shoot Any Smokeless Powder and not Shoot Loose; All Parts Replaced Free of Charge which at Any Time Prove in the Least Defective.



Barrels—Sterlingworth Fluid Compressed Steel; Guaranteed for [illegible] or Black Powder; Shooting and Wearing Qualities Cannot be Surpassed
Stock—Finest Quality Dark American Walnut; Finely Checkered [illegible] with Rubber Cap; Hard Rubber Butt Plate; Length 14 inches.
Fore-end—Dark American Walnut with Patent Snap.

STANDARD

	Each
No. 8012 - 12 Gauge, Plain Extractor; [illegible] Barrels, Weights [illegible] Drop of Stock 2¾ inches	$50 40
No. 8016 —16 Gauge; Hand 28 inch Barrels; Weights 6¾ to 7¼ lbs	50.40
No. 8020 —20 Gauge; Hand 28 inch Barrels; Weights 6 to 6½ lbs	50 40

FIELD

	Each
No. 8012F -12 Gauge; Plain Extractors; [illegible] Barrels, Right Barrel Modified, Left Barrel Full Choke Bored; Weight 7 lbs; Drop of Stock 2¾ inches	$59 40
No. 8016F—16 Gauge; 26 and 28 inch Barrels; Weights 6¾ to 7¼ lbs	50.40
No. 8020F—20 Gauge; 26 and 28 inch Barrels; Weights 6 to 6½ lbs	50.40

One in a Box; Ten in a Case

L. C. SMITH HAMMER SHOT GUNS

NEW MODEL

NOTE. The Mechanical Construction of all Smith Hammer Guns is the Same, they are the Strongest Hammer Guns Built; the Locking Bolt is Cylindrical in Shape, Tapered to Allow for Wear and Self Adjusting, Making it Impossible for them to Shoot Loose. Guaranteed for Nitro Powder.

Barrels—Blued Steel; made from Carefully Selected Steel, Toughened and Hardened by Patent Construction they are Similar to Whitworth Fluid Crown and Siemen's Steel Barrels. Matted Extension Rib; Both Barrels Full Choke Bored.
Stock—Selected Walnut; Half Pistol Grip, Checkered; Rubber Butt Plate.
Locks—Bar Action; New Style Low Circular Hammers; Case Hardened Frame and Mountings.
Fore-end—Selected Walnut; Checkered; Full Compensating Patent Snap.

	Each
No. S12B—12 Gauge; 28, 30 and 32 inch Barrels; Weights 7¾ to 8½ lbs	$38 00
No. S16B—16 Gauge; 28 and 30 inch Barrels; Weights 6¼ to 7 lbs	38 00

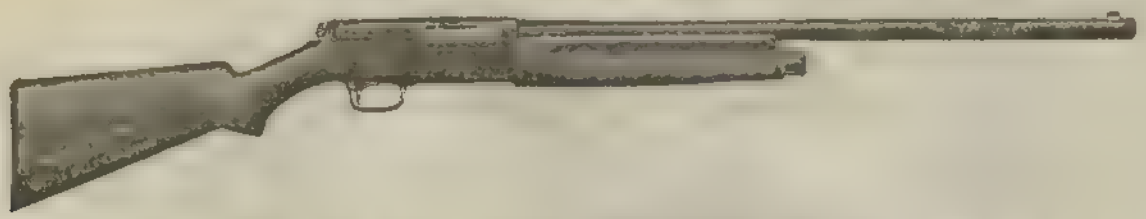
One in a Box; Ten in a Case

Barrels—Fine Damascus; Matted Extension Rib; Both Barrels Full Choke Bored.
Stock—Selected Walnut; Half Pistol Grip, Checkered; Rubber Butt Plate.
Locks—Bar Action; New Style Low Circular Hammers; Case Hardened Frame and Mountings
Fore-end—Selected Walnut, Checkered; Full Compensating Patent Snap.

	Each
No. S12D—12 Gauge; 28 and 30 inch Barrels; Weights 7 to 8½ lbs	$44 00
No. S16D—12 Gauge; 28 inch Barrel Weight 7 to 8½ lbs	44.00

One in a Box; Ten in a Case; Weight Per Case About 125 lbs.

WINCHESTER REPEATING SHOT GUNS



MODEL 1911, SELF-LOADING, TAKE DOWN, 5 SHOTS

The Winchester Self-Loading Shotgun is a recoil operated hammerless, take down, five shot repeater. The recoil developed by the discharge of the gun forces the barrel assembly rearward, and from the recoil from the cartridge in the chamber and leaves the gun ready to be shot again. As the trigger must be released before each shot, the gun is at all times as completely under the control of the user as any double or single barrel gun. The loading and shooting of this gun being governed by the trigger finger, it has been aptly called the "Trigger Controlled Repeater."

Nickel Steel Construction: The barrel, receiver, magazine and all working parts of this gun throughout are made of Nickel steel, which has a far greater tensile strength and elastic limit than the steel used by other makers. The magazine tube and front sight are integral with the barrel, the whole piece being machined from one solid forging. This is much stronger and more lasting construction than when these parts are made separately and brazed to the barrel.

Barrel: Nickel Steel, Matted Finish, 26 and 28 inches Long; Chambered for 2¾ inch 12 Gauge Shells; Rifle Style Sight, made Solid with Barrel and Tipped with a Bright Point of Tin.

Stock: Plain Walnut, Pistol Grip; Length 13¾ inches, Drop at Comb 1⅝ inches, Drop at Heel 2⅝ inches; Rubber Butt Plate.

Receiver: Nickel Steel, Blued Finish. Matted on top along the Line of Sight.

		Each
No. W112—12 Gauge; Full Choke Bored Barrel; Weight about 7¾ lbs.	$70 14	42.50
No. W112M—12 Gauge, Modified Choke Bored Barrel; Weight about 7¾ lbs.	70 14	42.50
No. W112C—12 Gauge, Cylinder Bored Barrel, Weight about 7¾ lbs.	70 14	42.50
No. W112XB—12 Gauge; Full Choke Bored Barrel, and one extra Cylinder Bored Barrel, Weight complete about 11 lbs.	97 38	59.00

One in a Box

✣ INTERCHANGEABLE BARRELS

		Each
✣ Interchageable Barrel, including Receiver and Action	$27.24	16.50

Loose

✣ EXTRAS

		Each
✣ Fancy Walnut Stock and Forearm, Not Checkered	$24.76	15 00
✣ Checkered Stock and Forearm	9 08	5 50
✣ Extra Length or Drop of Stock to order, Straight or Pistol Grip	18 98	11 50
✣ Matting Barrels	9 90	6.00

One in a Box

MODEL 1911, SELF-LOADING SHOT GUN, TRAP GRADE, TAKE DOWN, 5 SHOTS

Barrel: Nickel Steel Matted; 26 inches Long; Chambered for 2¾ inch 12 Gauge Shells; Rifle Style Sight made Solid with Barrel and Tipped with a Bright Point of Tin.

Stock: Selected Fancy, Hand Made Oil Finished, with Straight or Pistol Grip; Checked Rubber Butt Plate. Unless otherwise specified Straight Grip Stocks and Pistol Grips; Length of Stock, Fancy Walnut, Hand Made, Checked Stock, Rifle Style Sight or Stock as 13⅞ inches Long; Drop at Comb 1⅝ inches; Drop at Heel 2⅝ inches. Here as this Stock is Hand Made any lengths desired will be Furnished and any drop up to 3¾ inches at Heel and 1¾ inches at Comb without extra charge.

		Each
✣ No. W112T—12 Gauge; Full Choke Bored Barrel; Weight about 7¾ lbs.	$131 18	79 50

One in a Box

✣ INTERCHANGEABLE BARRELS

		Each
✣ Interchangeable Barrel, with Magazine and Forearm	$47 04	28.50

Loose

MODEL 1911, SELF-LOADING GUN, PIGEON GRADE, TAKE DOWN, 5 SHOTS

Barrel: Nickel Steel Matted; 26 inches Long; Chambered for 2¾ inch 12 Gauge Shells; Rifle Style Sight made Solid with Barrel and Tipped with a Bright Point of Tin.

Stock: Selected Fancy Hand Made Oil Finished Straight or Pistol Grip, Checked Rubber Butt Plate, Unless Otherwise Specified Straight Grip Stocks and Pistol Grips; Length of Stock, Fancy Walnut, Hand Made, Checked Stock, Rifle Style Stock as 13⅞ inches Long; Drop at Comb 1⅝ inches; Drop at Heel 2⅝ inches. Here as this Stock is Hand Made any length desired will be Furnished and any Drop up to 3¾ inches at Heel and 1¾ inches at Comb without Extra Charge; Frame elaborately Engraved.

		Each
✣ No. W112P—12 Gauge; Full Choke Bored Barrel, Weight about 7¾ lbs.	$278 88	169 00

One in a Box

✣ INTERCHANGEABLE BARRELS

		Each
✣ Interchangeable Barrel, with Magazine and Forearm	$47.04	28.50

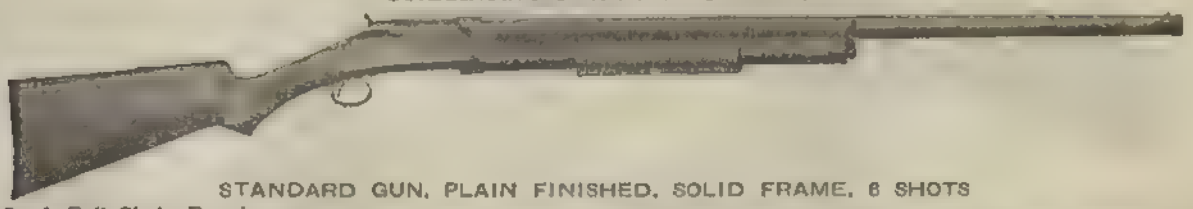
Loose

Items marked ✣ Not Carried in Stock, Can only be furnished by Shipping direct from Factory, New Haven, Conn.

WINCHESTER REPEATING SHOT GUNS

MODEL 1897

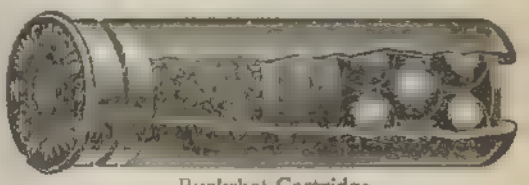
GUARANTEED FOR NITRO POWDER



STANDARD GUN, PLAIN FINISHED, SOLID FRAME, 6 SHOTS

Barrel—Rolled Steel, Full Choke Bored.
Stock and Action Slide—Plain Walnut, Full Pistol Grip, Not Checkered, Rubber Butt Plate, Length of Stock 13⅞ inches, Drop at Comb 1¾ inches, Drop at Heel 2⅜ inches.

		Each	
No. W9712—**12 Gauge**; 30 and 32 inch Barrels; Weight about 7¼ lbs.	One in a Box	**$42.76**	28 50

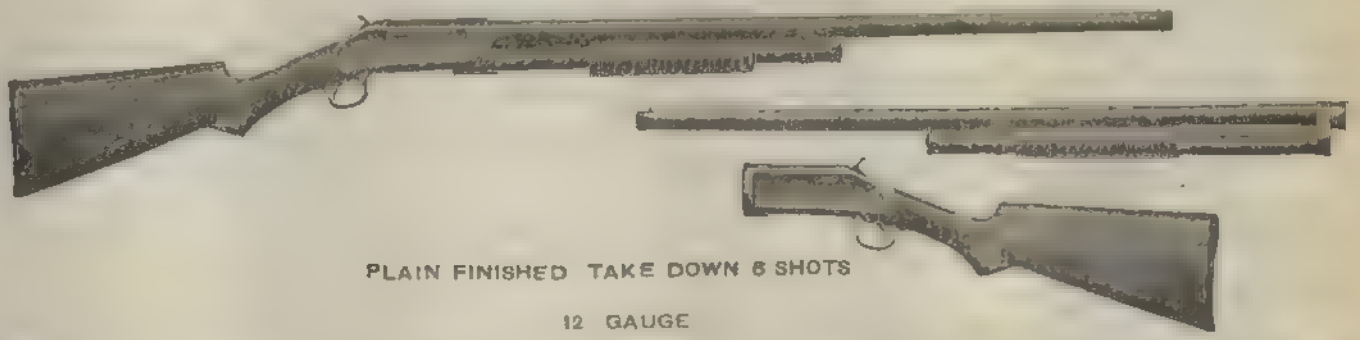


Buckshot Cartridge

RIOT GUN, SOLID FRAME, 6 SHOTS

Bored Expressly to Shoot Buckshot. These Guns are Used by Sections of the U. S. Army, Express Messengers, Watchmen, Prison Guards, Train Hands and by Many People for Home Defense. They are far Superior to a Revolver for Shooting in the Dark, where Aim is Uncertain, as a Buck Shot Cartridge Contains Nine Bullets to One Contained by a Revolver Cartridge.
Barrel—Rolled Steel; Cylinder Bored.
Stock and Action Slide—Plain Walnut, Full Pistol Grip, Not Checkered, Rubber Butt Plate, Length of Stock 35⅞ inches, Drop at Comb 1¾ inches, Drop at Heel 2⅜ inches.

		Each	
No. WR12—**12 Gauge**; 20 inch Barrel; Weight 7¼ lbs.	One in a Box	**$42.76**	28 50



PLAIN FINISHED TAKE DOWN 6 SHOTS

12 GAUGE

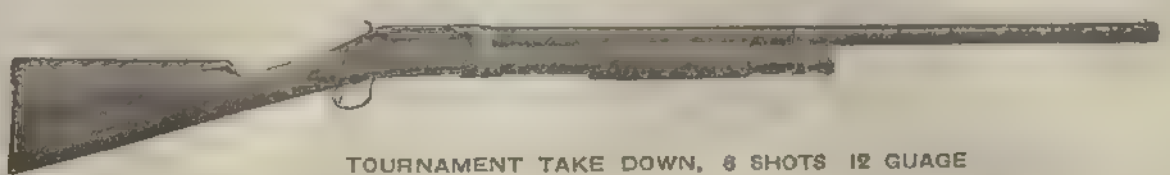
Barrel—Rolled Steel.
Stock and Action Slide—Plain Walnut, Full Pistol Grip, Not Checkered, Rubber Butt Plate; Length of Stock 13⅞ inches, Drop at Comb 1¾ inches, Drop at Heel 2⅜ inches.

		Each	
No. W9712TD—**12 Gauge**; 28, 30 and 32 inch Barrels; **Full Choked Bored**; Weight about 7¼ lbs.		**$51 16**	34 00
No. W9712TDM—**12 Gauge**; 28, 30 and 32 inch Barrels, **Modified Choke Bored**; Weight about 7¼ lbs.		**51 16**	34.00
No. W9712TDC—**12 Gauge**; 28, 30 and 32 inch Barrels; **Cylinder Bored**; Weight about 7¼ lbs.		**51 16**	34 00
No. BW9712TD—**12 Gauge**; 30 inch **Full Choke Bored** Barrel, Fitted with an Extra 28 inch Cylinder Bored Barrel.		**79 20**	48 00
No. FW9712TD—**12 Gauge**; 30 inch **Full Choke Bored** Barrel, Fitted with an Extra 26 inch Cylinder Bored Barrel.		**79 20**	48 00

16 GUAGE

Barrel—Rolled Steel; Full Choke Bored.
Stock and Action Slide—Plain Walnut, Full Pistol Grip, Not Checkered, Rubber Butt Plate; Length of Stock 13⅞ inches; Drop at Comb, 1⅝ inches, Drop at Heel 2 5-16 inches.

		Each	
No. W9716TD—**16 Gauge**; 28 inch Barrel, Weight about 7¼ lbs.		**$51 16**	34 00
No. W9716TDM—**16 Gauge**; 28 inch Barrel, **Modified Choke Bored**; Weight about 7¼ lbs.	One in a Box	**51 16**	34 00



TOURNAMENT TAKE DOWN, 6 SHOTS 12 GUAGE

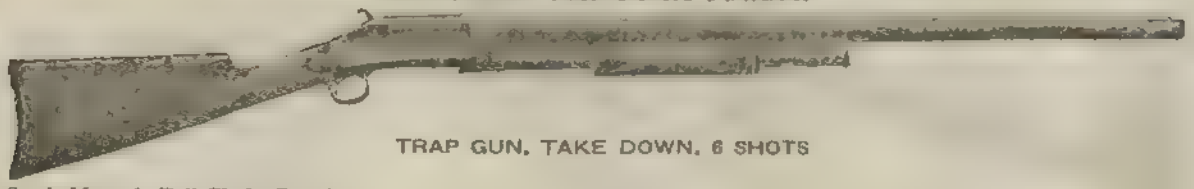
Barrel—Rolled Steel; Handsomely Matted; Full Choke Bored.
Stock and Action Slide—Pistol Grip, Half Made, Straight Grip; Checkered and Oil Finished; Rubber Butt Plate; Length of Stock 14 inches, Drop at Comb, 1¾ inches, Drop at Heel 1⅞ inches; Heavy and Rounding Comb.

		Each	
No. TW9712TD—**12 Gauge**; 30 inch Barrel; Weight about 7¾ lbs.	One in a Box	**$79 20**	48 00

WINCHESTER REPEATING SHOT GUNS

MODEL 1897

GUARANTEED FOR NITRO POWDER



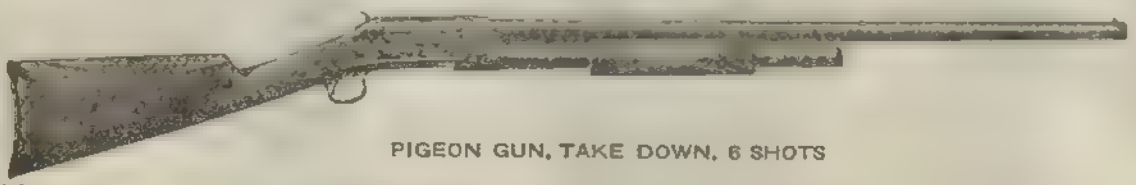
TRAP GUN, TAKE DOWN, 6 SHOTS

Barrel—Rolled Steel, Matted; Full Choke Bored.
Stock and Action Slide—Selected Fancy Walnut Straight Grip, Checkered and Oil Finished; Rubber Butt Plate; Length of Stock 13¾ inches, Drop at Comb 1⅝ inches, Drop at Heel 2⅛ inches; Heavy and Rounding Comb.

		Each
No. WT12TD 12 Gauge; Chambered for 2¾ inch Shells, 30 inch Barrel, Weight about 7¾ lbs	$98.18	1.50
✣ No. WT16TD—16 Gauge; Chambered for 2⅝ inch Shells, 28 inch Barrel; Weight about 7¾ lbs	98.18	51.50

✣ NOTE. The Stock of this Gun Being Hand Made, any Length or Drop Desired Out of the Regular, or Stocks with Pistol Grip, can be Furnished to Special Order Without Extra Charge.

One in a Box



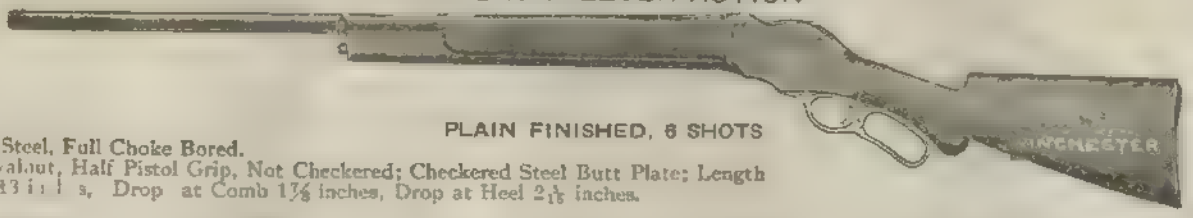
PIGEON GUN, TAKE DOWN, 6 SHOTS

Barrel—Rolled Steel; Handsomely Matted, Full Choke Bored.
Stock and Action Slide—Selected Fancy Walnut Straight Grip, Handsomely Checkered and Oil Finished; Rubber Butt Plate; Length of Stock 13¾ inches, Drop at Comb 1⅝ inches, Drop at Heel 2⅛ inches; Heavy and Rounding Comb.
Frame—Elaborately Engraved.

		Each
No. WP12TD—12 Gauge; Chambered for 2¾ inch Shells, 28 inch Barrel; Weight about 7¾ lbs	$188.10	114 00
✣ No. WP16TD 16 Gauge, Chambered for 2⅝ inch Shells, 28 inch Barrel, Weight about 7¾ lbs	188.10	114 00

One in a Box

MODEL 1901 LEVER ACTION



PLAIN FINISHED, 6 SHOTS

Barrel—Rolled Steel, Full Choke Bored.
Stock—Plain Walnut, Half Pistol Grip, Not Checkered; Checkered Steel Butt Plate; Length of Stock 13 inches, Drop at Comb 1⅝ inches, Drop at Heel 2⅛ inches.

		Each
No. W0110—10 Gauge; 32 inch Barrel; Weight about 8¾ lbs	$7.44	4.50

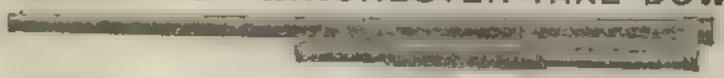
FANCY FINISHED, 6 SHOTS

Barrel—Rolled Steel, Full Choke Bored
Stock—Fancy Walnut, Half Pistol Grip, Checkered, Checkered Steel Butt Plate, Length of Stock 13 inches, Drop at Comb 1⅝ inches Drop at Heel 2⅛ inches; Fancy Checkered Fore-arm.

		Each
✣ No. WF0110—10 Gauge; 32 inch Barrel; Weight about 9 lbs	$90.78	55 00
✣ Any Variation from Standard Length or Drop of Stocks, to Order, Extra	18.98	11 50

One in a Box

EXTRA BARRELS FOR WINCHESTER TAKE DOWN GUNS



Extra Rolled Steel Barrels for the Take-Down Repeating Shot Guns, Complete with Magazine, Fore-arm, etc., can be Furnished Direct from the Factory. In all Cases when Extra Barrels are Furnished Separately it is Necessary to Send the Stock to the Factory for Fitting, as Barrels are not Strictly Interchangeable.

		Each
✣ Interchangeable Barrel, for No. W0712TD Complete with Magazine and Action Slide Handle, Any Length up to 32 in.	$47.04	28 50
✣ Interchangeable Barrel, Rolled Steel, for Trap Gun Grade, with Magazine, Checkered Action Slide Handle	28.06	17 00
✣ Interchangeable Barrel, Rolled Steel, Matted, for Pigeon Gun Grade, with Magazine and Fancy Checked Action Slide Handle	47.04	28 50

EXTRAS FOR MODEL 1897 SHOT GUNS

		Each
✣ Fancy Walnut Stock and Action Slide Handle, not Checked	$24.76	15.00
✣ Checking Stock and Slide Handle	9 08	5 50
✣ Extra Length or Drop of Stock, to Order.	18.96	11 50
✣ Fancy Checked Action Slide Handle, "Trap" or "Pigeon" Gun Grade	9.08	5 50
✣ Silver's Recoil Pad	13.20	8 00
✣ Matting Barrel	9 90	6 00

EXTRAS FOR MODEL 1901 LEVER ACTION SHOT GUNS

		Each
✣ Fancy Walnut Stock & fore-arm, not checked	$24.76	15.00
✣ Checking Stock and Fore-arm	9.08	5.50
✣ Extra Length or Drop of Stock, to Order	18.96	11.50

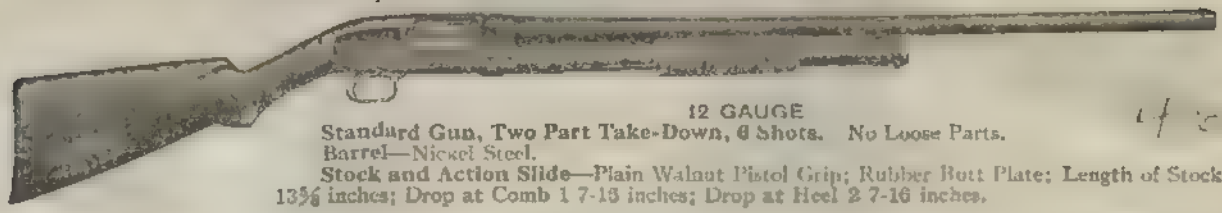
One in a Box

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, New Haven, Conn.

WINCHESTER REPEATING SHOT GUNS

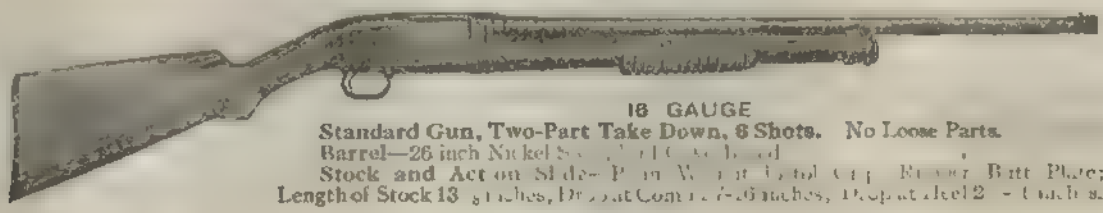
MODEL 1912 HAMMERLESS

GUARANTEED FOR NITRO POWDER



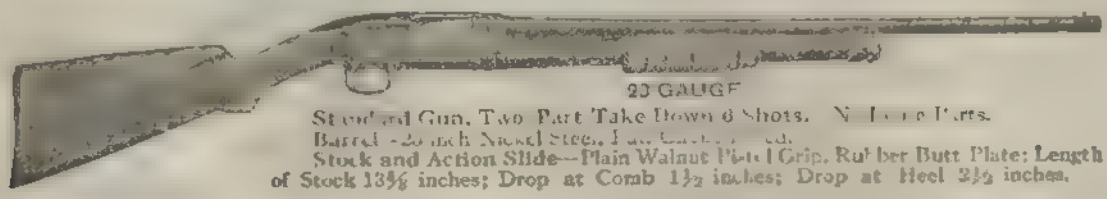
12 GAUGE
Standard Gun, Two Part Take-Down, 6 Shots. No Loose Parts.
Barrel—Nickel Steel.
Stock and Action Slide—Plain Walnut Pistol Grip; Rubber Butt Plate; Length of Stock 13⅝ inches; Drop at Comb 1 7-16 inches; Drop at Heel 2 7-16 inches.

		Each
Full Choke Bored		
No. W1212—12 Gauge; Chambered for 2¾ inch Shells, 28, 30 and 32 inch Barrel; Weight about 7¼ lbs.	$59.40	36 00
Modified Choke Bored		
No. W1212M—12 Gauge; Chambered for 2¾ inch Shells, 28 and 30 inch Barrel; Weight about 7¼ lbs.	59.40	36 00
Cylinder Bored		
No. W1212C—12 Gauge, Chambered for 2¾ inch Shells, 28 and 30 inch Barrel, Weight about 7¼ lbs.	59.40	36 00
Matted Rib; Full Choke Bored		
No. W1212R—12 Gauge, Chambered for 2¾ inch Shells, 28 and 32 inch Barrels, Weight about 7¼ lbs.	69.30	42 00
With Extra Barrel		
No. W1212X—12 Gauge; Full Choke Bored Barrel; 30 inch only; and extra Cylinder Bored Barrels, 26 or 28 inch. One in a Box	92.40	56 00



16 GAUGE
Standard Gun, Two-Part Take Down, 6 Shots. No Loose Parts.
Barrel—26 inch Nickel Steel, Full Choke Bored
Stock and Action Slide—Plain Walnut Pistol Grip; Rubber Butt Plate; Length of Stock 13⅝ inches, Drop at Comb 1 7-16 inches, Drop at Heel 2 7-16 inches.

		Each
Full Choke Bored		
No. W1216—16 Gauge, Chambered for 2 9-16 inch Shells; 28 inch Barrel; Weight about 6 lbs.	$59.40	36 00
Modified Choke Bored		
No. W1216M—16 Gauge; Chambered for 2 9-16 inch Shells; 26 inch Barrel; Weight about 6 lbs.	59.40	36.00
Cylinder Bored		
No. W1216C—16 Gauge, Chambered for 2 9-16 inch Shells, 28 inch Barrel, Weight about 6 lbs. One in a Box	59.40	36.00



20 GAUGE
Standard Gun, Two Part Take Down 6 Shots. No Loose Parts.
Barrel—28 inch Nickel Steel, Full Choke Bored.
Stock and Action Slide—Plain Walnut Pistol Grip, Rubber Butt Plate; Length of Stock 13⅝ inches; Drop at Comb 1½ inches; Drop at Heel 2½ inches.

		Each
Full Choke Bored		
No. W1220—20 Gauge; Chambered for 2¾ inch Shells; 25 inch Barrel; Weight about 5¾ lbs.	$59.40	36 00
Matted Rib; Full Choke Bored		
No. W1220R—20 Gauge; Chambered for 2¾ inch Shells; 25 inch Barrel; Weight about 5¾ lbs.	69.30	42 00
Modified Choke Bored		
No. W1220M—20 Gauge, Chambered for 2¾ inch Shells, 25 inch Barrel, Weight about 5¾ lbs.	59.40	36.00
Cylinder Bored		
No. W1220C—20 Gauge, Chambered for 2¾ inch Shells, 25 inch Barrel, Weight about 5¾ lbs.	59 40	36.00

EXTRAS FOR 1912 MODEL

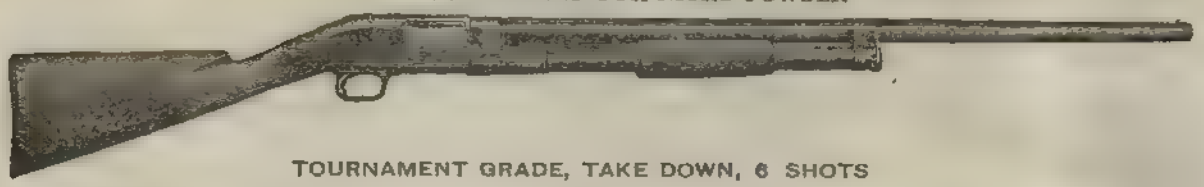
✠Fancy Walnut Stock and Action Slide Handle, not Checked	$24 78	15 00
✠Checking Fancy Stock and Action Slide Handle	9 08	5 50
✠Extra Length or Drop of Stock to Order	18 98	11 50
✠Matted Rib	9 90	6 00
✠Interchangeable Barrel, Nickel Steel, Complete with Magazine and Action Slide Handle. One in a Box	33.00	20 00

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, New Haven, Conn.

WINCHESTER REPEATING SHOT GUNS

MODEL 1912 HAMMERLESS

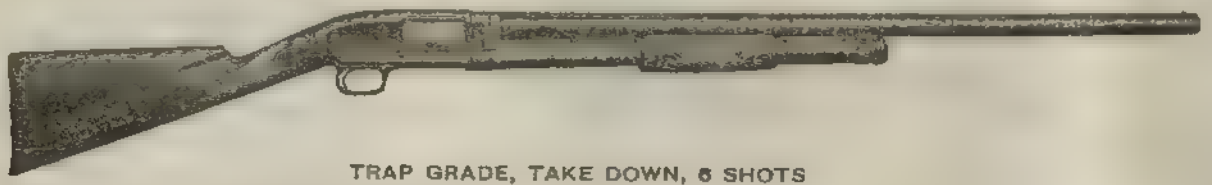
GUARANTEED FOR NITRO POWDER



TOURNAMENT GRADE, TAKE DOWN, 6 SHOTS

Barrel—Nickel Steel; **Full Choke Bored with Matted Rib.**
Stock and Action Slide—Selected Fancy Hand Made Straight Grip; Checkered and Oil Finished; Rubber Butt Plate; Length of Stock 14 inches Drop at Comb 1¾ inches; Drop at Heel 1 13-16 inches.

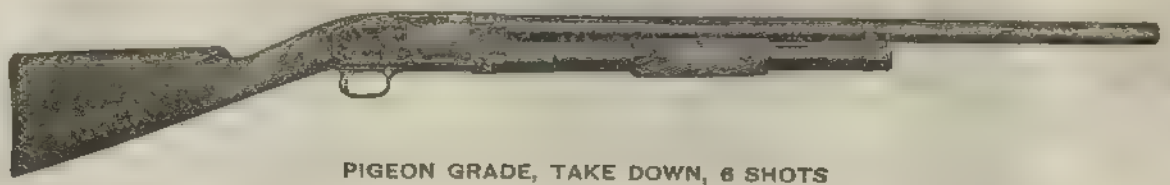
No. W1212T—12 Gauge; Full Choke Bored Barrel; Chambered for 2¾ inch Shells; 30 inch Barrel; Weight about 8 lbs. ..... **$89.10** Each; 54.00
One in a Box



TRAP GRADE, TAKE DOWN, 6 SHOTS

Barrel—Nickel Steel; **Full Choke Bored, with Matted Rib.**
Stock and Action Slide—Selected Fancy Walnut; Straight Grip, Handsomely Checkered and Oil Finished, Rubber Butt Plate; Length of Stock 13⅝ inches; Drop at Comb 1¾ inches; Drop at Heel 2⅛ inches.

No. WT1212—12 Gauge; 30 inch Barrel; **Full Choke Bored;** Chambered for 2¾ inch Shells; Weight about 7¾ lbs. ..... **$108.90** Each 66.00
One in a Box



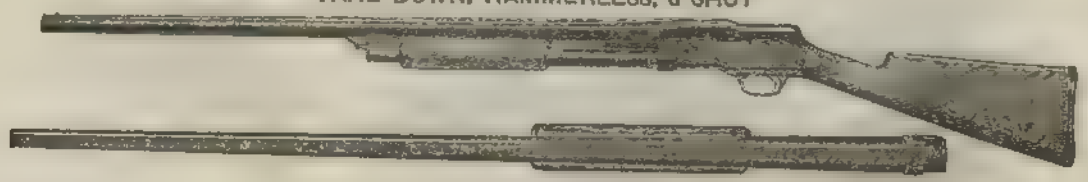
PIGEON GRADE, TAKE DOWN, 6 SHOTS

Barrel—Nickel Steel; **Full Choke Bored, with Matted Rib.**
Stock and Action Slide—Selected Fancy Walnut, Straight Grip, Handsomely Checkered and Oil Finished, Rubber Butt Plate; Length of Stock 13⅝ inches; Drop at Comb 1¾ inches; Drop at Heel 2⅛ inches.

No. WP1212—12 Gauge; 30 inch Barrel, **Full Choke Bored;** Chambered for 2¾ inch Shells; Weight about 7¾ lbs. ..... **$207.90** Each 126.00
One in a Box

STEVENS REPEATING SHOT GUNS

TAKE DOWN, HAMMERLESS, 6 SHOT



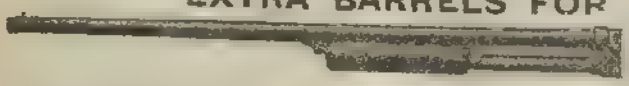
Cut Shows Matted Rib on Barrel of Stevens Trap Gun

TRAP

Barrel—Stevens Compressed, Forged Steel, Matted Rib. The Barrel Used in the Manufacture of this Gun is First Compressed and is then Forged into Shape, thus Making it as Strong as it is Possible to Make a Shot Gun Barrel. It is Finished in Black Oxide, which Gives it a Beautiful and Lasting Appearance. Will Handle Any Standard Shell up to 2¾ inches.
Receiver—The Receiver is a Solid Drop Forging, and in the Manipulation of the Gun None of the Interior Parts Protrude that Usually Interfere with the Pleasure and Safety of Shooting a Repeating Shot Gun. This is One of its Most Valuable Features. It has the Same Black Oxide Finish as the Barrel. The Tangs to which the Stock is Fitted are Extra Long and Add Strength to the Stock at its Weakest Point. Shells are Ejected from the Side, which is the Most Popular Method in Use, as the Shells are Ejected Away from the Shooter.
Stock—Fancy Walnut; Straight Grip, Fancy Checkered Rubber Butt Plate. Length 14 inches, Drop 2¾ inches.
No Deviation from Stock Dimensions, under Any Circumstances

No. SRT12—12 Gauge; 30 inch Barrel; Full Choke Bored; Weight 7¾ lbs. ..... Each **$67.00**
One in a Box

EXTRA BARRELS FOR STEVENS REPEATING SHOT GUNS



NOTE. In all Cases Extra Barrels will have to be Fitted at the Factory, as They are not Interchangeable

	Each
† Standard Grade	$27 00 15.00
† Trap Grade.....	43 20 24.00

Items Marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Chicopee Falls, Mass.

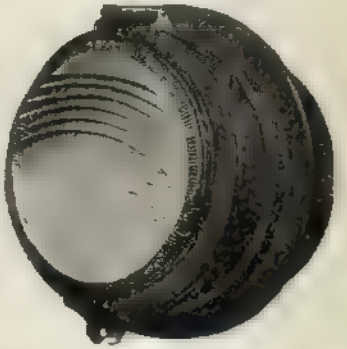
Improved Electric Incandescent Street Car Headlights

Class A
For Mounting Outside of Dash

No. 1646A. 8-inch. With Deflector Lens and Copper Silver-Plated Reflector

No. 164b. 8-inch. With Plain Glass in Door and Golden Ray Reflector

Class B
Set-In Dash Type



No. 1661A. 8-inch. With Deflector Lens and Copper Silver-Plated Reflector

No. 1661. 8-inch. With Plain Glass in Door and Golden Ray Reflector

These headlights will be found suitable for city cars and will provide ample illumination

For prices, see page 193

For shipping weights and export measurements, see page 192

Improved Electric Incandescent Street Car Headlights

Classes A and B

Designed Particularly for City Cars

Accommodates G18½ round, concentrated filament railway type Mazda lamp

No. 1646B 8-inch Wide Plain Glass Door and Copper Silver Plated Reflector

No. 1661B 8-inch Wide Plain Glass Door and Copper Silver Plated Reflector

The groups are divided in two classes, being designed to attach to outside of dash, and arranged to be set into the dash

Both classes are constructed of reinforced sheet steel and possess relatively the same illuminating capacity and lend themselves admirably for the purpose intended all doors are interchangeable with their respective class and will accommodate either plain glass or the deflector lens, and may be provided with guard, affording protection to glass

Both styles will permit use of the Golden Ray glass reflector or may be supplied with copper silver-plated reflector and will admit of means for effective focusing, whereby the reflector is hinged to case and when released exposes the entire focusing device insuring ease and accuracy in making adjustment When ordering please state if this feature is wanted, or whether reflector is required to be rigidly fastened to case

The headlights thus described embody all the essentials requisite for their proper performance are neatly designed and of light weight, in perfect accord with present day requirements When ordering class B set in type, please designate permissible projection in rear of dash

For complete specifications, see page 191

For shipping weights and export measurements see page 192

For prices see page 193

Improved Electric Incandescent Street Car Headlights

Class C

Designed to Be Set in Dash Board

Practically [illegible] and will be found suitable where space is limited (2½ inches) between dash and [illegible]

No. 1641 10-inch With Plain Door, Enameled Steel or Polished Aluminum Reflector

No. 1640 [illegible] With Grill Door, Enameled Steel or Polished Aluminum Reflector

No. 1642 8½-inch With Plain Door, Enameled Steel or Polished Aluminum Reflector

No. 1643 8½-inch With Grill Door, Enameled Steel or Polished Aluminum Reflector

These headlights are [illegible] for use [illegible] corrugated [illegible] where [illegible] and [illegible] is restricted

Improved Electric Incandescent Street Car Headlights

Class C

Designed for City Cars. To be set in Dashboard. Accommodates any Edison base round or pear shaped lamp 16 to 32 candle power.

The headlights are designed to meet the demand of city railways for a flush headlight, or one that will not project much beyond the dash, thus offering protection to a great extent in case of collision or other accidents.

These headlights are constructed in a most substantial manner, the casings and doors are cast iron, strongly supported and provided with strap catch, door hinged at top and closed by gravity, cannot carelessly be left open.

The styles shown are furnished with two types of reflectors, polished aluminum or white porcelain enameled steel, are interchangeable, are all the doors the grid type having cast iron ribs integral with the door protecting the glass without sacrificing the light to any marked extent.

These headlights require a hole in dash 11 inches in diameter; they project back of the dash 2¼ inches, while the projection in front of the dash is but 2 inches for the plain type door, 2½ inches for the grid type, 3 inches for the semaphore door and 3½ inches for guard type.

Provision is made for focusing lamps of various sizes and shapes, permitting the filament of the lamp to be adjusted to the focal point of the reflector.

For complete specifications, see page 191.

For shipping weights and export measurements, see page 192.

Quotations include the porcelain lamp socket, but not the incandescent lamp.

For prices, see page 193.

Improved Electric Incandescent Street Car Headlights

Class D

Front Perspective View

Designed for city cars—to be attached to front of dash projects 5¼ inches in front of car

No. 1609

8¾ Inch

In order to meet the demands for a headlight possessing all qualifications conducive to efficiency, yet moderate in price, prompts us to offer the style shown, which is intended to be attached to the front or outside of dashboard Its construction is entirely of grey iron. A removable porcelain enameled reflector insures excellent results and is considered an improvement over the time honored plated reflector. The arrangement of the lamp socket is such that it permits the lamp to be suspended from the top thus providing against short circuiting as sometimes happens when lamp is placed in an upright position, due to moisture collecting in and about the socket

For complete specifications, see page 191

For shipping weights and export measurements see page 192

Quotations include the porcelain lamp socket, but not the incandescent lamp

For price see page 193

Rear Perspective View

Improved Electric Incandescent Street Car Headlights

Designed for City Cars To Be Set Into Dashboard

Pressed Steel Headlight

No. 1583

8¾-Inch Pressed Steel

Accommodates any Edison base, round or pear-shaped 60 watt lamp.

The illustration represents a substantial light weight, pressed steel headlight arranged to be set into the dash. The inner surface of body is white porcelain enamel and serves the purpose of a reflector—or may be supplied with [illegible] silver plated reflector and ribbed door glass or with plain glass in door. The [illegible] locked in place with wire [illegible] may be supplied with gravity [illegible] Both head and tail [illegible] 11½ glass reflector with plain [illegible] and with [illegible] to [illegible] affording ease [illegible] when [illegible] lamp [illegible]

Cast Iron Headlight

No. 1631

8-inch Cast Iron Headlight

Accommodates G-18½ round concentrated filament railway type Mazda lamp.

This design offers a compact, serviceable, set-in type headlight, made of cast iron throughout. Is artistically furnished with copper silver-plated reflector and plain glass in door and permits of modifications described above.

For complete specifications of both headlights, see page 191.

For shipping weights and export measurements of both headlights, see page 192.

Quotations do not include the incandescent [illegible]
For prices, see page [illegible]

Improved Electric Incandescent Street Car Headlights

Designed for City Cars—To Be Set Into Dashboard

No. 348J

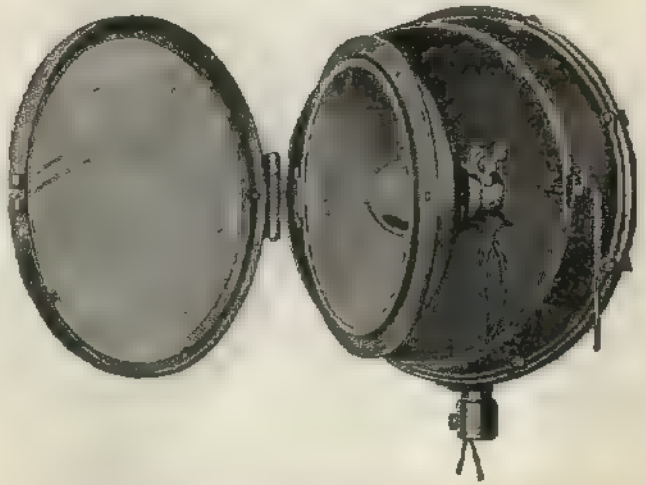
10-Inch Improved Cast Iron Headlight With Hinged Reflector

Accommodates G-18½ round, concentrated filament railway type Mazda lamp

The accompanying cuts illustrate an improvement in this standard set-in type cast iron headlight, which is particularly adapted to city cars. The reflector either copper silver-plated or Golden Ray glass, is hinged to casing, affording easy access to the lamp and focusing device, and when furnished with the deflector lens, as shown, secures a greater volume of glareless light. This manner of focusing and method of reflector arrangement may be furnished to those having the old rigid type of reflector in service and will increase the lighting capacity three fold at a nominal expenditure

For complete specifications, see page 191

For shipping weights and export measurements, see page 192.



View of Above Headlight Showing Reflector Hinged, Admitting Ready Access to Lamp and Focusing Device

Quotations do not include the incandescent lamp
For prices, see page 193

MOSSBERG.

TRIPLE END SOCKET FOR FORDS.

Has two openings of 41/64 inches for use on cylinder head cap screws and one opening of 33/64 inches to fit nuts on rear axle housing.

Each

No. 630—Triple End Socket Wrench; for Fords.....**$0.86**

Weight each, 1 lb. One in a box.

CYLINDER HEAD AND REAR AXLE.

A sturdily built ratchet wrench 9¾ inches long with ¼ inch handle to give good grip. Fitted with 41/64 and 33/64 hex sockets to fit $\frac{7}{16}$ and $\frac{3}{8}$ inch screws.

Each

No. 631—Mossberg Ratchet Cylinder Head Screw and Rear Axle Housing Nut Wrench.....**$4.00**

CONNECTING ROD.

After removing the pan underneath the engine of a Ford, the three front connecting rods are fairly easy to adjust, but the fourth is back from the opening and (working from under the car as you must) a special wrench is absolutely necessary to adjust this "No. 4" connecting rod. The No. 623 is designed to just meet the conditions and its use will many times obviate the necessity of taking down the engine.

Each

No. 623—Mossberg Connecting Rod Wrench; mottled finish and thoroughly hardened; packed in strong fibered envelope.....**$0.62**

RATCHET CONNECTING ROD.

A new reversible ratchet wrench shaped especially to reach up and over the edge of the pan and on the nuts of the connecting rod, means that you will not have to remove wrench after you once fit it to these nuts.

Each

No. 624—Reversible Ratchet Connecting Rod Wrench..**$2.90**

HUB CAP WRENCH.

Each

No. 650—Mossberg Hub Cap Wrench; for removing Ford hub caps.....**$0.26**

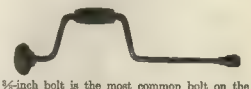
THREE-EIGHTH SOCKET.

A short sturdy "L" shaped ⅜ inch socket wrench for use on Ford cars.

Each

No. 625—⅜-Inch Single End Offset Socket Wrench; 7¼ inches long; offset 2 inches; packed in individual cartons.....**$0.48**

BRACE BOLT.



The ⅜-inch bolt is the most common bolt on the Ford car and a brace wrench is necessary to remove them rapidly. Some of the most important places where this wrench is especially used on account of its long length are on carburetor nuts, crank case nuts, cylinder valve cover nuts, fan adjusting screws, lamp bracket nut, manifold clamp stud nut, steering post bracket nut, timer spring nut, etc.

Each

No. 611—Mossberg ⅜-Inch Brace Bolt Wrench.....**$1.04**

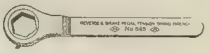
DOUBLE-END SPARK PLUG AND CYLINDER HEAD.

The flat opening of 61/64 inches fits the Champion "X" plug used on Ford cars and is offset to get down on to the spark plug body nut. This socket measures 41/64 inches, to accurately fit cylinder head cap screws and all $\frac{7}{16}$ inch bolts.

Each

No. 635—Double-End Spark Plug and Cylinder Head Screw Wrench.....**$1.20**

RATCHET TENSION SPRING.



Especially designed for use on Ford reverse and brake pedal tension springs.

Each

No 645—Ratchet Tension Spring Wrenches; for Ford car.**$0.80**

FLY WHEEL CAP SCREW.

Designed for adjusting the cap screw on fly wheel of Ford car. Built especially strong and sturdy. Clearance of all obstructions is given.

Each

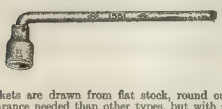
No. 637—Mossberg Fly Wheel Cap Screw Wrench.....**$1.10**

SPEED BRACE.

The sockets are drawn from cold rolled strip steel, with accurate hexagon openings, but are perfectly round outside. The addition of this extra metal across outside faces of sockets causes these sockets to be veritably indestructible. All indestructible sockets are case hardened. Top handles are steel drawn from flat stock. Construction: ½-inch steel bar, with bell-shaped steel swivel top handle; length, 19¼ inches, finish, rust proof black.

No.	Sizes of Hex. Sockets, Inches	U. S Std. Nuts and Bolts; Bolt Size, Inches	S. A. E. Standard Screw; Size, Inches	Hex. Head Cap Screw, Inches	Each
1729	29/64	..	1/4	1/4	$1.32
1733	33/64	1/4	5/16	5/16	1.32
1737	37/64	..	3/8	3/8	1.32
1739	39/64	5/16	..	..	1.32
1741	41/64	..	7/16	7/16	1.32
1745	45/64	3/8	..	..	1.32
1749	49/64	..	1/2	1/2	1.32
1751	51/64	7/16	..	..	1.32
1753	53/64	..	..	9/16	1.32
1757	57/64	1/2	9/16	5/8	1.32
1761	61/64	..	5/8	..	1.32
1763	63/64	9/16	..	..	1.32
1765	1-1/64	..	11/16	3/4	1.32
1769	1-5/64	5/8	3/4	..	1.32
1781	1-17/64	3/4	7/8	1	1.32

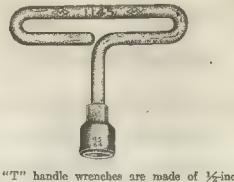
10-INCH OFFSET.



The sockets are drawn from flat stock, round outside, with no more clearance needed than other types, but with about twice the strength. All Mossberg indestructible steel sockets are case hardened. Construction: ½-inch steel bar; length, 10 inches over all; finish, rust proof black.

No.	Sizes of Hex. Sockets, Inches	U. S. Std. Nuts and Bolts; Bolt Size, Inches	S. A. E. Standard Screw; Size, Inches	Hex. Head Cap Screw, Inches	Each
1529	29/64	..	1/4	1/4	$0.74
1533	33/64	1/4	5/16	5/16	.74
1537	37/64	..	3/8	3/8	.74
1539	39/64	5/16	..	..	.74
1541	41/64	..	7/16	7/16	.74
1545	45/64	3/8	..	..	.74
1549	49/64	..	1/2	1/2	.74
1551	51/64	7/16	..	..	.74
1553	53/64	..	..	9/16	.74
1557	57/64	1/2	9/16	5/8	.74
1561	61/64	..	5/8	..	.74
1563	63/64	9/16	..	..	.74
1565	1-1/64	..	11/16	3/4	.74
1569	1-5/64	5/8	3/4	..	.74
1581	1-17/64	3/4	7/8	1	.74

6-INCH "T" HANDLE.



Mossberg "T" handle wrenches are made of ½-inch steel bar case hardened. Sockets are pinned and securely riveted to handle of wrench so that it is impossible for them to loosen no matter how severe the service. Rust proof black finish.

No.	Sizes of Hex. Sockets, Inches	U. S Std. Nuts and Bolts; Bolt Size, Inches	S. A. E. Standard Screw; Size, Inches	Hex. Head Cap Screw, Inches	Each
1129	29/64	..	1/4	1/4	$0.96
1133	33/64	1/4	5/16	5/16	.96
1137	37/64	..	3/8	3/8	.96
1139	39/64	5/16	..	..	.96
1141	41/64	..	7/16	7/16	.96
1145	45/64	3/8	..	..	.96
1149	49/64	..	1/2	1/2	.96
1151	51/64	7/16	..	..	.96
1153	53/64	..	..	9/16	.96
1157	57/64	1/2	9/16	5/8	.96
1161	61/64	..	5/8	..	.96
1163	63/64	9/16	..	..	.96
1165	1-1/64	..	11/16	3/4	.96
1169	1-5/64	5/8	3/4	..	.96
1181	1-17/64	3/4	7/8	1	.96

12-INCH "T" HANDLE.

Same as 6-inch "T" handle wrenches, except fitted with 12-inch handles.

No.	Sizes of Hex. Sockets, Inches	U. S. Std. Nuts and Bolts; Bolt Size, Inches	S. A. E. Standard Screw; Size, Inches	Hex Head Cap Screw, Inches	Each
1329	29/64	..	1/4	1/4	$1.04
1333	33/64	1/4	5/16	5/16	1.04
1337	37/64	..	3/8	3/8	1.04
1339	39/64	5/16	..	..	1.04
1341	41/64	..	7/16	7/16	1.04
1345	45/64	3/8	..	..	1.04
1349	49/64	..	1/2	1/2	1.04
1351	51/64	7/16	..	..	1.04
1353	53/64	..	..	9/16	1.04
1357	57/64	1/2	9/16	5/8	1.04
1361	61/64	..	5/8	..	1.04
1363	63/64	9/16	..	..	1.04
1365	1-1/64	..	11/16	3/4	1.04
1369	1-5/64	5/8	3/4	..	1.04
1381	1-17/64	3/4	7/8	1	1.04

MOSSBERG.

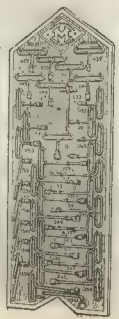
SPEED BRACE SOCKET WRENCHES.

The purpose of No. 1700 is to offer our dealers the best possible speed brace socket wrenches, each size in the proportion in which it sells to the trade, and to offer them in a self-selling way. All Mossberg speed brace wrenches are furnished with drawn steel bell top handle which eliminates breakage, so common on the wooden type, and all the sockets are case hardened. Display board construction: Western chestnut with coach construction, individual metal tags for each wrench. Finish, natural wood with three coats of varnish. Size, 24x70 inches. Assortment consists of 75 Mossberg speed brace socket wrenches assorted in size from 29/64 to 1-17/64 inches. Each pair of hooks holds two wrenches, although the assortment is arranged so that you get quantities in each size of sockets exactly as that particular size sells. On those sizes where more than two wrenches are furnished, you have a small reserve stock.

Each

No. 1700—Mossberg Speed Brace Socket Wrench Assortment and Display Board.....$118.66

"T" AND OFFSET WRENCHES.



A properly proportioned assortment of the Mossberg ready selling 6 and 12-inch "T" handle and 10-inch offset socket wrenches. Consists of sixty 6-inch "T" handle wrenches ranging in size from 29/64 to 1-17/64 inches, seventy 12-inch "T" handle wrenches ranging in size from 29/64 to 1-17/64 inches and thirty-two 10-inch offset wrenches ranging in size from 33/64 to 61/64 inches. Mounted on handsomely finished hardwood display board, size 24x70 inches, with coach construction; individual metal tags for each wrench. Each pair of hooks holds two wrenches, although the assortment is arranged so that you get quantities in each size of sockets exactly as that particular size sells. On those sizes where more than two wrenches are furnished, you have a small reserve stock.

Each

No. H—Mossberg Wrench Assortment and Display Board.....$170.66

WRENCH SET.

The No. 600 Mossberg wrench set consists of 76 wrenches for Ford repair work.

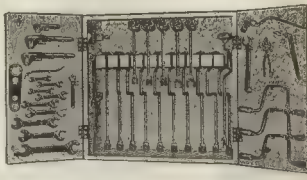
Contents: 8 No. 623 Special for connecting rods, 4 No. 624 reversible ratchet wrenches for connecting rods, 8 No. 630 triple-end cylinder head screw and rear axle housing bolts, 2 No. 631 reversible ratchet wrench for cylinder head screws and rear axle bolts, 8 No. 635 spark plug and cylinder head screws, 6 No. 637 fly wheel cap screws, 10 No. 645 ratchet wrench for reverse and brake pedal tension springs, 6 No. 1637 double end socket wrenches, 6 No. 613 $\frac{7}{16}$-inch screw speed brace socket wrenches, 6 No. 611 $\frac{3}{8}$-inch screw speed brace socket wrenches and 6 No. 612 $\frac{1}{2}$-inch screw speed brace socket wrenches.

Above assortment mounted on handsomely finished hardwood board with individual metal tags for each wrench.

Each

No. 600—Mossberg Wrench Assortment and Display Board; size of board, 24x70 inches.....$104.00

MECHANICS CABINETS.



The handiest collection of wrenches in a finished hardwood wall cabinet, with a place for each tool and each tool in its place, with some space for a few extra tools under lock and key. Forty-one tools in all, every one a real one, to fill a real necessity are in this cabinet. Every wrench and tool used every day by the garage man, every one necessary. Contents: All steel indestructible socket speed braces, ten of them, all steel socket handles, reversible ratchet connecting rod wrench for Fords, all steel wheel puller for Fords, a real universal valve lifter, a brace valve-grinder for all types of valves and in addition is included the complete No. 4 garage set of open double-end wrenches, each wrench fitting the same bolt or nut diameter either in U. S. or S. A. E. standard.

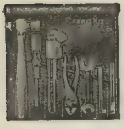
Each

No. 1000—Mossberg Garage Mechanics Cabinet; cabinet, 30 inches long, 11 inches deep, 27 inches high, constructed of selected western chestnut handsomely finished; complete with wrenches as above.....$70.00

5334 AUTOMOBILE TOOL KITS.

VLCHEK.

FORD SPECIAL.



This set contains all the tools originally sent out with a Ford car and some additional tools that are very convenient to have and consists of the following:

Semi-finished 15° angle drop forged wrench; 9 inch black automobile wrench 3 inch electricians round shank screw driver; 6 inch black adjustable combination pliers; 5/16 inch cold chisel; natural finish; 5 inch offset screw driver; 8 ounce ball pein hammer.

Each

No. 910—Tool Kit; for Ford cars; weight, 3 lbs..... .$3.40

TOURIST.

This assortment is used by the majority of the medium priced car manufacturers and contains an assortment that appeals to the prospective buyer who will do most of his own repair work. All high grade tools and consists of the following:

4 semi-finished 15° angle drop forged wrenches; single jaw wrench, half polished; 9 inch ebony automobile wrench; 3 inch electricians round shank screw driver; 5 inch electricians square shank screw driver; 9 inch machinists all-steel screw driver; 7 inch flat file; 6 inch ebony adjustable combination pliers; 3/8 inch solid punch, half polished, 1/8 inch point; 3/8 inch center punch, half polished; 3/8 inch cold chisel, half polished; 1/2 inch cape chisel, half polished; 1/4 inch cotter pin extractor, black; 10 ounce machinists ball pein hammer No. 1 machinists bearing scraper; box assorted cotter pins; file handle

Each

No. 906—Tool Kit; complete with roll as above; weight 7½ lbs. $9.30

MOTORIST.

An excellent kit, containing all tools necessary for making ordinary repairs All tools of the highest grade and fully warranted. Case is heavy waterproof canvas with harness leather retaining straps. We recommend this kit to the automobile owners. Consists of the following:

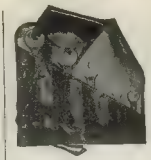
4 semi-finished 15° angle drop forged wrenches; 10 inch wood handle pipe wrench; 9 inch automobile monkey wrench; double jaw "ready grip" wrench, polished; 3 inch electricians round shank screw driver; 5 inch electricians round shank screw driver; 9 inch machinists all-steel screw driver; 5 inch offset drop forged screwdriver; 6 inch ebony adjustable combination pliers; 3/8 inch solid punch, half polished, 1/8 inch point; 3/8 inch center punch, half polished; 3/8 inch cold chisel, half polished; 1/2 inch cold chisel, half polished; 1/4 inch cape chisel, half polished; 1/4 inch cotter pin extractor; No. 1 machinists bearing scraper; 10 ounce machinists ball pein hammer; file handle; 8 inch round file; 8 inch flat file; 6 inch three corner file; 6 inch side cutting pliers; 5 inch black bicycle wrench; spark plug socket wrench; bundle 15 copper wire; box assorted cotter pins; bundle 20 copper wire.

Each

No. 902—Tool Kit; complete as above with roll; weight, 11¼ lbs.....$16.80

WRENCH SETS.

MOSSBERG'S, DOUBLE END.

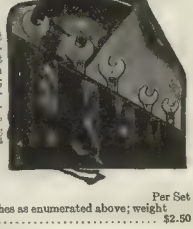


An assortment designed especially to meet the requirements of the individual car owners. This set is low in price and at the same time furnishes an assortment of well made wrenches with sufficient range to handle any ordinary work for which a wrench of this kind is required.

Per Set

No. 1MS—Containing 5 double end wrenches, ranging in sizes from 1/4x5/16 to 7/16x1 inches; lengths, 3⅞ to 8¾ inches .$1.54
Packed in enameled canvas kit.

A. L. A. M. sizes.

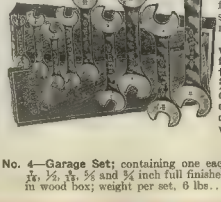


Packed in special canvas kit as follows: No. 232, 7/32 and 1/4-inch openings, 1/4 and 5/16 bolt size; No. 243, 7/16 and 1/2-inch openings, 5/8 and 3/4 bolt size; No. 267, 3/4 and 7/8-inch openings, 7/8 and 1/8 bolt size; No. 277, 1/8 and 1-inch openings, 1/4 and 1/4 bolt size; No. 293, 1 1/16 and 1 1/4-inch openings, 3/4 and 1/8 bolt size.

Per Set

No. 3MS—Containing 5 wrenches as enumerated above; weight per set, 1½ lbs..... .$2.50

GARAGE.



One opening of each wrench fits U. S. standard bolts and the other opening of the same wrench fits the S. A. E. cap screws of the same dimension

Set contains 9 wrenches with 18 openings which fit all U. S. and S. A. E. thread bolts from 1/4 to 3/4-inch. The large range of work this set will handle makes it an ideal outfit for general motor work.

Per Set

No. 4—Garage Set; containing one each, 1/4, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8 and 3/4 inch full finished wrenches packed in wood box; weight per set, 6 lbs.....$5.60

MOSSBERG.

Each

No. 14MS—Consists of 1 No. 350 ratchet socket handle, 1 No. 330 "T" handle, 1 No. 320 offset socket wrench handle, 1 extension bar No. 351, 10-inches long, 1 Sterling No. 100 finest nickeled pliers, 1 S. A. E. double-end wrench set, full finish, five wrenches, ten openings, 1 universal joint, 3 special spark plug sockets, sizes 29/32, 31/32 and 1-5/32 inches, 1 double-end offset screw driver, 1 cotter pin extractor No. 1, bright nickel plated, 23 sizes thoroughly hardened and Parker rust proof hexagon sockets, ranging from 5/16 to 1-9/32, 11 sizes square sockets, ranging from 13/32 to 1-9/32; handles for every kind of difficult approach; sockets to fit every possible size between 5/16 and 1-9/32 inches; weight per set, 17 lbs. **$23.80**

No. 19 assortment hexagon sockets with various handles, adapted for heavy repair work.

Each

No. 19MS—Consists of 1 No. 357 reversible ratchet handle, 18 inches long, 1 No. 324 offset handle, 15 inches long, 1 No. 348 extension tube, 10 inches long, 1 No. 337 universal joint, 1 No. 338 connection bushing (for use with small series sockets), 9 heavy duty Parker rust proof pressed steel hexagon sockets, ranging in size from 29/32 to 2-13/32 inches; weight per set, 20 lbs. **$28.00**

Per Set

No. ACL—Consists of 1 take-down reversible ratchet handle, 1 swivel or universal joint which permits the use of wrench at any angle, 1 1½-inch extension bar, 1 1¾-inch extension bar, 1 offset screw driver, 25 sizes of moffled case hardened pressed steel hexagon sockets, ranging in size from 5/16 to 1-9/32 inches, 1 each 13/32, 17/32 and 21/32 square and 1 special spark plug socket, 29/32 inches hexagon, 4 inches long; weight per set, 8½ lbs. **$19.60**

Each

No. 10MS—Consists of 1 ratchet handle No. 350, 1 extension bar, 9½ inches long, No. 351, 1 universal joint, No. 336, double-end offset screw driver, 21 rust proof, properly hardened, pressed steel sockets ranging in size from 15/32 to 1-9/32 inches, 2 special hexagon spark plug sockets, No. 402, 4 inches long, 29/32-inch opening, No. 422, 4 inches long, 1-5/32-inch opening, fitting standard spark plugs; weight per set, 6¾ lbs. **$14.00**

Each

No. 13MS—Consists of 1 ratchet socket wrench handle, No. 355, 1 extension tube, No. 351, 9½ inches long, 15 rust proof, thoroughly hardened, pressed steel hexagon sockets ranging in size from 13/32 to 23/32 inches, 1 29/32 hexagon spark plug socket, 4 inches long; weight per set, 5½ lbs. **$7.70**

Each

No. 7MS—Consists of 1 offset socket wrench handle, No. 320, 10 inches long, 1 take-down "T" socket wrench handle, No. 340, 10 inches long, 15 hexagon rust proof, thoroughly hardened, pressed steel sockets ranging in size from 13/32 to 1-3/32 inches, 1 29/32 hexagon spark plug socket, 4 inches long; weight per set, 5½ lbs. **$6.30**

Each

No. 6MS—Containing 1 folding handle, No. 310, 7 sizes of hexagon pressed steel sockets as follows: 17/32, 19/32, 21/32, 23/32, 13/16, 29/32 and 1-3/32 inches, special spark plug socket, 29/32x4 inches; weight per set, 2 lbs. **$4.95**

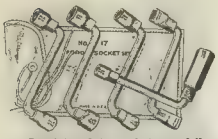
SPEED BRACE.

Each

No. 45MS—Consists of 1 speed brace handle, No. 359, with interchangeable sockets held to handle by ball spring friction, 1 universal joint, No. 336, 1 connection socket, No. 167, 17/32-inch square socket for use as connection unit, 15 sizes of all-steel indestructible heavy duty hexagon sockets ranging in size from 29/64 to 1-17/64 inches; weight per set, 9¼ lbs. ... **$14.66**

Above packed in hardwood boxes, hinged covers.

MOSSBERG.
FORD SPECIAL.



A heavy-duty socket set. Five steel bars with a socket firmly affixed to each end.

Each.

Consists of 10 sockets as follows: Hexagon, 11/32, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2; Square, 1/2; Spark Plug Socket, 13/16, 4 inches long; oval socket for Ford main bearing nuts.

No. 17FS—One set complete in a canvas case; weight each, 3½ lbs. **$6.66**

FORD SOCKET.

Designed especially for the use of the Ford owner who requires a reliable wrench set for use when repairing his car.

Each

No. 30—Contains one No. 355 ratchet socket wrench, one No. 351 extension tube, one No. 336 Universal joint one No. 302 screw driver socket, ten pressed steel sockets, one oval socket to fit main bearing bolts, and one spark plug socket. **$8.14**

FORD SPECIAL.

Provides a wrench to fit every nut and bolt on Ford cars. Enables quick repair in case of accident. Fully guaranteed and always dependable. Eliminates need of any other wrenches. Contains the famous Mossberg No. 350 ratchet handle, one tubular extension bar, ten pressed steel hardened sockets, one spark plug socket, one universal joint and one screw driver.

Per Set.

No. 15M—Approximate weight, per set, 5 lbs. **$10.66**

LANE'S UNIQUE RACHET.

Machine made throughout of the best material obtainable. The sockets in both the Standard and Ford sets are turned from Bessemer steel and case hardened and are warranted not to break or spread. Has no equal for close work. Set contains: 1 handle, 7 inches in length; 2 screw driver bits; 1 extension bar 7 inches in length; 6 sockets to fit all nuts and bolt heads on Ford car including the cylinder head.

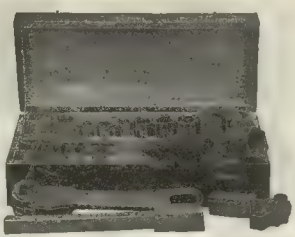
Per Set

No. LF—**Wrench Set;** for Ford cars; weight, 2 lbs. **$4.50**

No. LS—**Wrench Set;** same as No. LF except contains 7 sockets and does not have extension bar; for use on other standard makes of cars. **4.50**

Both above put up in imitation leather case.

WRIGHT.
GARAGE KIT.



This wrench set is made of the very best quality of malleable iron. Has a hard baked enamel finish and is packed in a neat and durable wooden case. Set includes universal joint which is indispensible in enabling one to reach cramped difficult places at any angle. All parts fit into ratchet wrench head where they are held by means of a spring. An ideal set for use around automobiles, garages, machine shops, etc.

Per Set

No. 50—**Wright Garage Kit;** consisting of 9-inch ratchet wrench, 8-inch extension screw driver, universal joint, 8-inch extension, one each 1/47, 9/32, 5/16, 3/8, 7/16, 1/2, 9/16 and 5/8 hexagon sockets, one each 1/4, 5/16, 3/8, 7/16, 1/2 and 9/16 square sockets and one each 7/8 and 1-1/8 spark plug sockets. **$8.80**

FORD TOOL BOX KITS.

This is a complete wrench set for Fords, made of very best quality malleable iron and finished in hard baked enamel. Packed in strong fibre box suitable for carrying in tool box.

Per Set

No. 60—**Ford Tool Box Kits;** consisting of 9-inch ratchet wrench, extension socket, universal joint and one each 1/4, 3/8, 5/16, 9/32, 7/16, 1/2 and 9/16 hexagon sockets. **$4.40**

This Ford wrench is made of the same quality malleable iron and has the same high grade finish as the No 60 kit. Packed in strong fibre box, convenient size to carry in tool box.

Per Set

No. 61—**Ford Tool Box Kit;** consisting of 8½-inch socket wrench, spark plug socket, oval socket for end bearings of crank shaft and one each 7/32, 93/2, 5/16, 3/8 and 2 1/32 hexagon sockets. **$2.00**

MOSSBERG SOCKET CHEST.

This particular assortment of sockets and handles has been carefully made up from several year's record of sales and the quantity of each unit is in direct proportion to its demand. Empty kits are included in the assortment for containers of special sets made up from this stock. The chest is a beautifully finished store fixture made of selected chestnut and is 14¼ inches high, 21 inches wide, 12½ inches deep, with eight drawers.

The No. 300 Assortment consists of:

300 regular Mossberg pressed steel sockets, rust proof, assorted sizes.

21 only pressed steel spark plug socket wrenches, assorted sizes.
4 only No. 350 reverse ratchet socket handles.
4 only No. 355 ratchet handles.
4 only No. 322 double-end offset and vertical handles.
4 only No. 340 take-down T handles.
4 only No. 336 universal joints.
4 only No. 351 extension tubes.
5 only canvas tool rolls.

Each

No. 300—Mossberg Socket Chest; complete with above assortment; carefully packed one in a box; weight packed ready for shipment, 145 lbs. **$123.00**

MOSSBERG SOCKET WRENCH PARTS.

HEXAGON SOCKETS.

Mossberg socket wrenches are so generally used in automobile repair work that it is necessary for dealers to have a stock of parts to take care of requests for more parts to add to sets already purchased or for replacement of lost units and for customers desiring special sizes.

Per Socket

Mossberg Pressed Steel Hexagon Sockets—Furnished in following sizes: 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2, 17/32, 9/16, 19/32, 5/8, 21/32, 11/16, 23/32, 3/4, 25/32, 13/16, 27/32, 7/8, 29/32, 15/16, 31/32, 1, 1-1/32, 1-5/32 and 1-9/32 inch. **$0.36**

SQUARE SOCKETS.

Per Socket

Mossberg Pressed Steel Square Sockets—Furnished in following sizes: 13/32, 15/32, 17/32, 19/32, 21/32, 23/32, 25/32, 29/32, 1-1/32, 1-5/32 and 1-9/32 inch. **$0.36**

MOSSBERG SOCKET WRENCH PARTS.

UNIVERSAL JOINT.

This universal joint allows the direct application of socket wrenches upon nuts or set screws in the most inaccessible places where it is necessary to literally "turn a corner", that is, the handle of socket wrench is used at an angle yet takes direct power used with long extension or 17/32 inch square socket.

Each

No. 336—Mossberg Universal Joint..... **$0.76**

RATCHET SOCKET HANDLE.

A reversible ratchet all steel socket wrench handle which will give long and satisfactory service.

Each

No. 350—Mossberg Ratchet Socket Wrench Handle; nickel plated finish..... **$3.50**
No. 355—Mossberg Ratchet Socket Wrench Handle; dead black finish..... **1.75**

EXTENSION BAR.

This long tubular extension bar, 9½ inches in length, makes it easy to reach many otherwise inaccessible places; can be used with ratchet socket handles, sockets or universal joint.

Each

No. 351—Mossberg Tubular Extension Bar..... **$0.80**

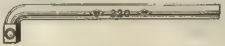
"T" SOCKET WRENCH HANDLE.

A strong compact take-down "T" handle, 10½ inches in length, made of hardened steel, mottled finish.

Each

No. 340—Mossberg Socket Wrench Handle..... **$0.80**

OFFSET SOCKET WRENCH HANDLE.



Ten inches long, made of finest steel thoroughly hardened.

Each

No. 320—Mossberg Socket Wrench Handle **$0.40**

LANTERNS

★NORLEIGH DIAMOND

POINTS OF SUPERIORITY

Heavy IX AA Quality Re-dipped Charcoal Tin;
Handsome Design — Looks
[illegible]
New Idea Wood B[illegible]
New Idea [illegible]
Effectiv
Double Seamed Bottom;
Selected Globes;

Cut Illustrates **Norleigh Diamond Cold Blast** Lifting and Lighting Device; Note Simplicity and Natural Action.

Cut Illustrates **Norleigh Diamond Hot Blast** Lifting and Lighting Device; Note Simplicity and Natural Action.

Cut Illustrates **Norleigh Diamond** Dash Attachment with Steel Wire Flush Dash Spring

Showing Top of Fount

Cut Showing **Norleigh Diamond** Steel Burner Tinned and Retinned and Lacquered; will not Dent or Rust.

Cut Illustrates **Norleigh Diamond** Wood Bail Handle with Extra Heavy Wire Used on Cold Blast Styles; Stands Automatically Erect; an Original Idea that will Appeal to Practical People.

Cut Illustrates Simplicity of Removing Cold Blast Globe—Rose Dome and Drop Globe Forward; Note also the New Improved Style Guard.

Cut Illustrates Double Seamed Bottom—not Soldered will not Flood the Burner and Extinguish Light like Some Others.

"ORIGINATED BY US"

Norleigh Diamond Style Clinched in Fount and Soldered

Old Style Soldered Only

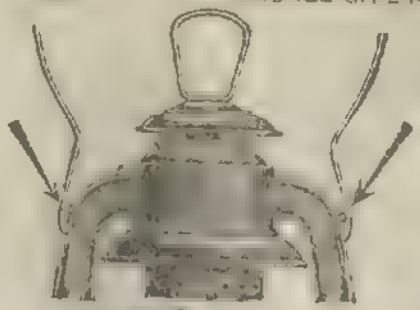
Large Cut Illustrates **Norleigh Diamond Big Mouth Oil Hole or Filler**, which Simplifies Filling—no Funnel Required.

Small Cut Illustrates Oil Hole Furnished on all Other Lanterns—Too Small for Practical Purposes.

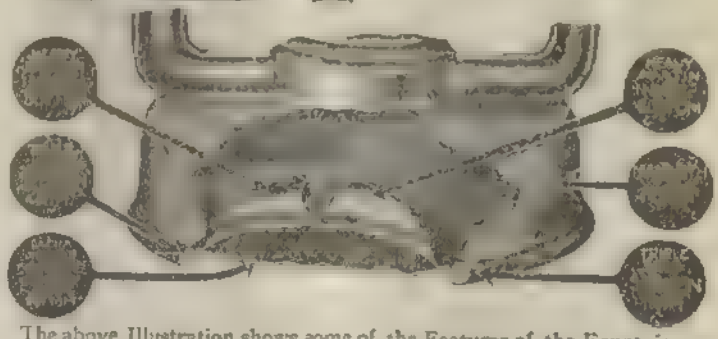
Cut Shows Strong Lock Corner Fibre Case in which all **Norleigh Diamond** Lanterns are Packed

LANTERNS

★NORLEIGH DIAMOND



Cut Illustrates the Standing Handle and High Ring Used on **Norleigh Diamond** Cold Blast Styles; Handle Remains in Upright Position when Set on the Ground; also Very Handy when Hanging Lantern on High Hook.



The above Illustration shows some of the Features of the Fount in [illegible] Norleigh Diamond Copper Clad Lanterns. This Fount is [illegible] Solid Drawn Seamless Copper Clad Bottom Joined [illegible] Seamless Copper Clad Body Joined [illegible] Seamless Copper Clad Top, Making the Strongest Fount for Long Wear. Besides the Copper Clad Bottom there is an Extra or Double Bottom Inside made from IXAA Prime Tin Plate. Both Bottoms and Sides are Spun on Rim forming a Triple Rim.

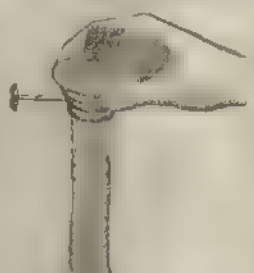
Cut Shows Tag on All Norleigh Diamond Lanterns. Various Lists of Selling Hints for the Retail Salesman is Printed on the Reverse Side.

Cut Shows Label on all Norleigh Diamond Lanterns Giving Instructions how to Obtain Best Results.

THE PROPER CARE OF LANTERN WICKS

A cotton wick serves but one purpose in lantern or lamp, and that is to convey the oil from the fount up to the point of combustion.

A lamp wick or lantern wick is a loosely woven bundle or bunch of cotton fibres, of proper size to fill the wick tube of the burner. The ower end of the wick resting in the fount becomes quickly saturated, nd then by means of capi lary attraction the oil is lifted and carried up athrough the burner to the point of combustion. It is, therefore, clear that any change in the character of the fibres which constitute the wick will affect their usefulness as a means of conveying the oil by attraction.



The illustration shows one of the wick and burners taken from a teated lantern. You will observe that the upper end of the wick is charred for a distance half the length of the thumb. This charring comes as a result of being exposed directly to the flame. It shows that the business end of the wick for a distance of an inch or more is badly charred. That means that the cellular character of the wick fibres had been *destroyed by fire.* The black portions are simply the ruins of fibres, the mineral-like residue or ashes from which all absorbent properties have been removed. This charred end of the wick is [illegible] because it cannot properly perform the functions of a wick.

Every experienced lantern user is very careful to avoid bringing about such conditions as described above, well knowing that it is useless to expect a steady, dependable light with so imperfect a wick. Where these conditions exist, it is necessary to trim all blackened portion of the wick away, and begin again exposing only the tip end of the wick to the flame. A wick properly trimmed once every few days will give absolute and entire satisfaction, always provided that the perforated globe rest is kept reasonably clean and the fount at least moderatly filled with kerosene oil of the ordinary grade which the market affords.

We do not apologize for our lantern construction. It is the best in existence. We don't ask any special treatment for our lanterns. They don't need it, but we do insist upon ordinary cleanliness and a glimmer of common sense in the use of our lanterns or any other of our specialties

LANTERNS

*NORLEIGH DIAMOND COLD BLAST

Clear Crystal Lead Glass Globes, Specially Made

"ORIGINATED BY US"

SHORT GLOBE
BELL SHAPED FOUNT

Only Three Operations to Light It:
A.—Raise the Globe.
B.—Light the Wick.
C.—Lower the Globe to Position.

Can be Lighted Quickly—which is an Advantage—in Lighting in the Wind Out of Doors.

Compare the Three above Operations with the Five which are Necessary to Light Other Short Globe Lanterns of this Type. The Five Operations are as Follows:

A.—Lift Sleeve on Top of Globe.
B.—Tip Back the Globe.
C.—Light the Wick.
D.—Tip Globe Back into Position.
E.—Lower the Sleeve to the Top of Globe.

The Hinged Globe in Other Short Globe Lanterns is an Old Method of Lighting Wick Used Many Years Ago.

The Fount of this Lantern is Larger than any Other of this Type. Ours will Burn Thirty-five Hours with One Filling.

Our Exclusive Style Reinforced Bell Shape Fount.

Compare the Shape of the Dome with that of any Other Lantern of this Type, and with its Flange of Shield Shape Instead of Being Straight Out, Makes the Lantern More Wind Proof than any Other Make; and not only that, but it Corresponds with the Canopy. Therefore, is Symmetrical.

The Flange of Dome Possesses Greater Stiffness than that of any other Lantern, Because it is Reinforced by a Separate Plate Underneath. It Never Gets Knocked Out of Shape or Damaged as is so Frequently the Case in Other Makes.

"ORIGINATED BY US"

SHORT GLOBE
BELL SHAPED FOUNT

The Brass Filler is of Large Size and has a Flush Top, not a Dished or Concave One. **Two Turns Fastens it.**

Lock Burner Made of Steel, Tinned. The Burner is Locked in Place and Cannot get Out of its Locked Position.

The Wire Lift at the Top of Globe in Other Lanterns Make it Necessary to Slit the Sleeve above the Globe through which to Operate the Crank Wire. The Slits or Openings in this Sleeve Weaken the Wind Resisting Power, and Thus, Instead of Being Wind Proof, the Openings Allow Much of these Openings are Carried Against the Wind. For that Reason, if for no Other, We have Our Lift for the Globe Arranged at the Bottom, where it Should be.

Wooden Bail Handles on all Bell Shape Fount Styles.

By Setting One of Our Norleigh Diamond Short Globe Lanterns by the Side of the Best One of Other Makes, you will, in Our Opinion, Decide that it Pays Best to Buy Our Lantern comparatively. We not Only Give the Best Value for the money, but the Lantern itself Shows it to be so.

When Selling Our Norleigh Diamond Short Globe Lantern, you Would Not Only be Furnishing Your Customers with the Best Lantern Obtainable, but what is of Greater Importance, you would be Securing the Best Profit.

Norleigh Diamond **Short Globe** Lanterns are **Unexcelled** in Brightness and Purity of Light. Light More Quickly. They Trim Easily. Fill More Easily. The Globe Being Short, is Cleaned Easily, there Being Less Glass Surface to Become Heated, Less Likelihood of Breakage of Globes.

ALL TIN—BRIGHT FINISH

Heavy IX XX Quality Redipped Tin; Handsome Design, Best Workmanship, no Raw Edges; New Idea Finishes; New Idea Side Lift Simple and Effective; Double Seamed Bottom, Spun On, will not Leak, Fitted with Selected Norleigh Diamond Globes.

Dome Fount and Top, Smooth Finish all Round with no Crevices for Dirt, Oil or Grease to Collect; Long Petticoat Draft Tube over Chimney which Induces Perfect Combustion, a Pure, Steady Light and Will Positively Prevent Light Being Blown Out.

Heavy Reinforced Steel, Tinned and Retinned and Lacquered Cold Blast Burner No 2 with 1 inch Wick Inserted; Model 1916, Low Tatten, Cold Blast Globe No. NS; Large Mouth Oil Hole with Flush Brass Cap; Standing Wire Bail with Wood Handle.

Per Dozen

No. 200 Oil Capacity sufficient for 35 Hours' Use; Height with Bail and Ring Down 11½ inches, Diameter of Base 3¾ inches, Black Enameled Wood Handle; Weight per Dozen 40 lbs..... **$21.00**

Half Dozen in a Case

LANTERNS

***NORLEIGH DIAMOND WEATHER PROOFED COLD BLAST—DOUBLE BOTTOM—SHORT GLOBE**

"ORIGINATED BY US"

WILL BURN 56 HOURS

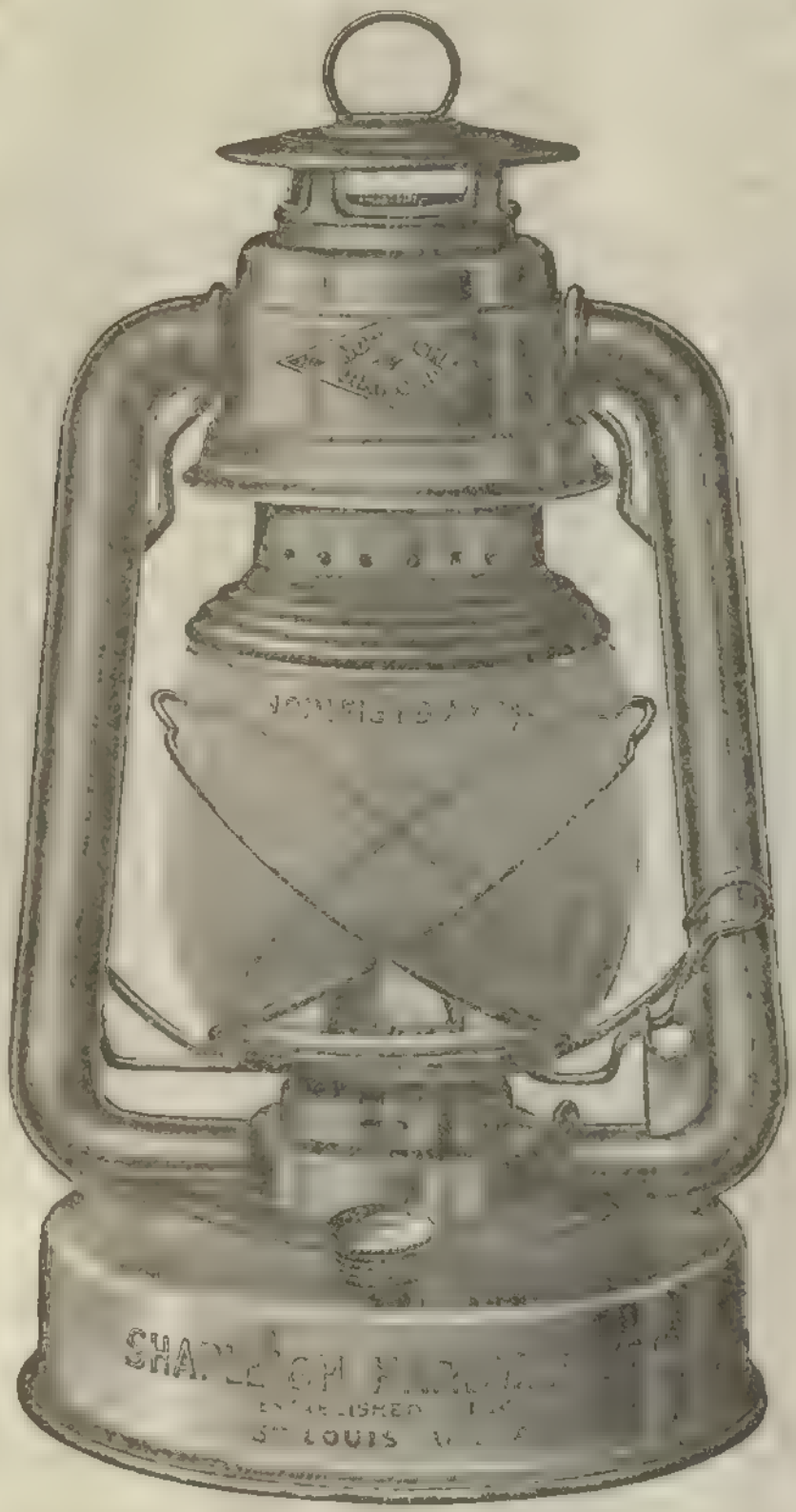
INSIDE LIFT—LIGHTS EASY

BAIL STAYS IN ANY POSITION

SPECIAL SELECTED CLEAR CRYSTAL LEAD GLASS GLOBES

DOUBLE WIRE GUARDS

EXTRA LARGE AIR CHAMBER



FRAME AND FOUNT FINISHED IN WATERPROOF BATTLESHIP GRAY

COPPER CLAD CYLINDER AND GLOBE CAP

LARGE STRONG COPPER CLAD BURNER AND FILLER CAP

IXAA CHARCOAL PLATE DOUBLE BOTTOM COPPER CLAD

MAMMOTH BROAD LOW FOUNT PREVENTS TIPPING

Per Dozen

No. 301—Japanned with Ball and Ring Bail, 14 Inches, Diameter Base 7¼ inches, No. 2 Brass Burner Equipped with 1 inch Wick; Weight per Dozen $33.00

LANTERNS

★NORLEIGH DIAMOND COLD BLAST

SHORT GLOBE

MAMMOUTH FOUNT

Heavy IX AA Quality Redipped Tin; Handsome Design; Best Workmanship; No Raw Edges; New Idea Finishes; New Idea Big Mouth Oil Hole; New Idea Standing Bail; New Idea Side Lift, Simple and Effective; Double Seamed Bottom, Spun On, Will Not Leak; Fitted with Selected Norleigh Diamond Globes.

ALL TIN

Red Enameled Bodies

Heavy, Reinforced Steel, Tinned and Retinned and Lacquered, Cold Blast Burner No. 2, with 1 inch Wick Inserted; Short Cold Blast Globe No. NS; Oil Capacity Sufficient for 56 Hours Use; Large Mouth Oil Hole; Standing Wire Bail; Height with Bail and Ring Down 14½ inches; Diameter of Base 7¾ inches.

Per Dozen

No. 225—Oil Capacity Sufficient for 56 Hours Use; Height with Bail and Ring Down 14½ inches; Diameter of Base 7¾ inches; Handles Enameled to Match Bodies; Weight per Dozen 40 lbs. **$22 00**

Half Dozen in a Case

LANTERNS

★NORLEIGH DIAMOND COLD BLAST

SHORT GLOBE

MAMMOUTH FOUNT

Heavy IX AA Quality Redipped Tin; Handsome Design; Best Workmanship; No Raw Edges; New Idea Finishes; New Idea Big Mouth Oil Hole; New Idea Standing Bail; New Idea Side Lift, Simple and Effective; Double Seamed Bottom, Spun On, Will Not Leak; Fitted with Selected Norleigh Diamond Globes.

DASH

Heavy Reinforced Steel, Tinned and Retinned Fount and Top.

Green and Red Enameled Bodies

Assorted

Heavy, Reinforced Steel, Tinned and Retinned and Lacquered; Cold Blast Burner No. 2, with 1 inch Wick Inserted; Short Cold Blast Globe No. NS; Oil Capacity Sufficient for 56 Hours Use; Large Mouth Oil Hole; Standing Wire Bail; Height with Bail and Ring down 14½ inches; Diameter of Base 7¾ inches.

Per Dozen

No. 251—Oil Capacity Sufficient for 56 Hours Use; Height with Bail and Ring Down 14½ inches; Diameter of Base 7¾ inches; Handles Enameled to Match Bodies; Weight per Dozen 50 lbs. . . **$30 00**

Half Dozen in a Case

LANTERNS

★NORLEIGH DIAMOND MAMMOTH FOUNT COLD BLAST

SHORT GLOBE

"ORIGINATED BY US"

Clear Crystal Lead Glass Globes, Specially Made.

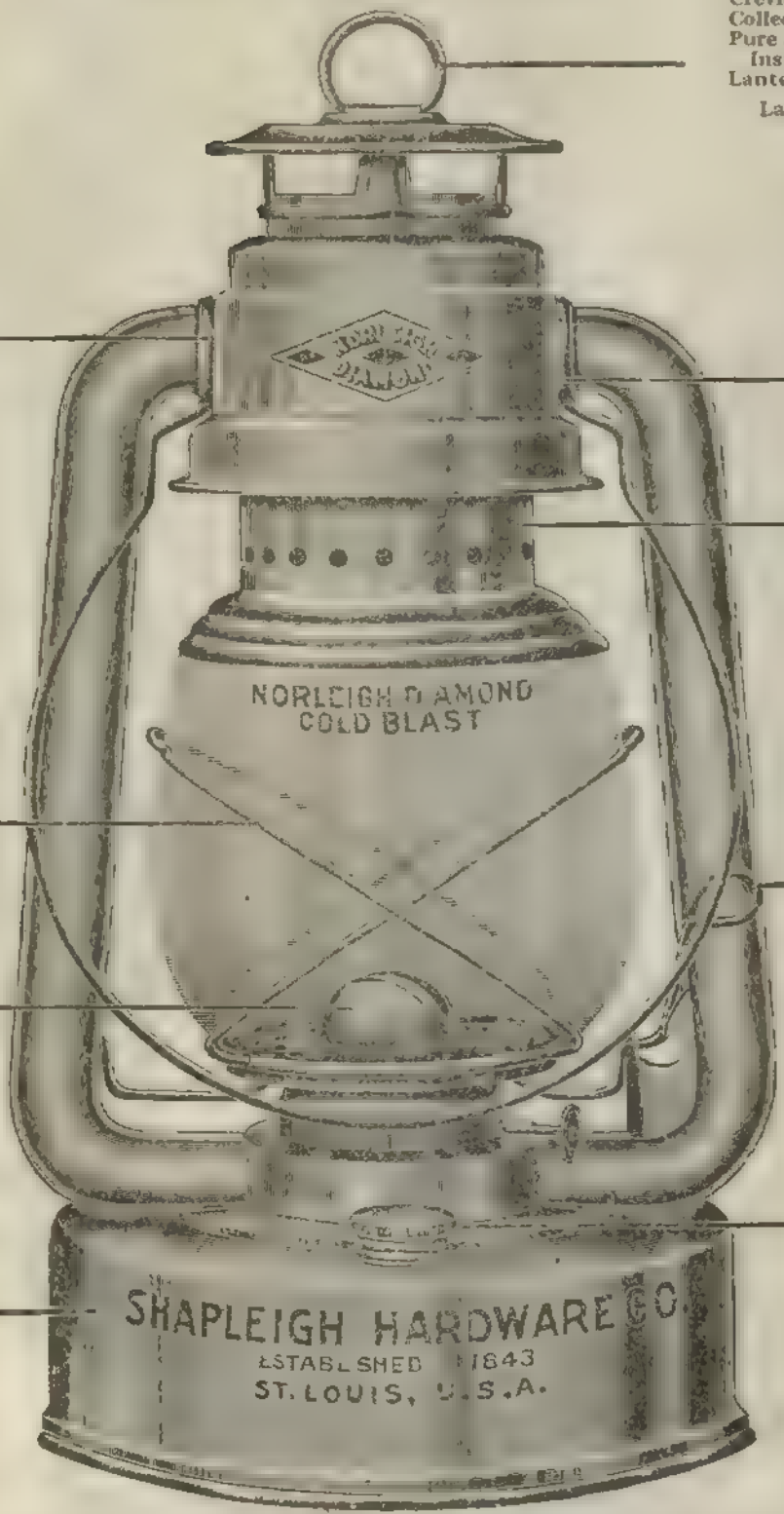
Heavy Reinforced Steel, Tinned and Retinned and Lacquered; Cold Blast Burner No. 2 with 1 in. Wick Inserted; Model 1916, Low Pattern, Cold Blast Globe No. NS; Large Mouth Oil Hole with Flush Cap; New Style Standing Bail.

Large New Style, Roomy Bail, will stay anywhere you put it.
Tubes made with Lock Seams. Heavy and perfectly Smooth at Elbow.

Double Steel Wire Globe Guards hold Globe securely while Tilting and prevent Breakage.

Genuine Brass Burner No. 2, Locked to Fount, will not come Loose when Globe is Raised. Wicked ready to Light.

Extra Large New Style Mammoth Fount with Squat Base shaped to prevent Tipping Over.
Double Strength, Concaved Bottom, Double Seamed and Cemented on will not Jar out and is Tested by Compressed Air.



Best Quality Materials used throughout. Dome, Fount and Top Smooth Finish all Round with no Crevices for Dirt, Oil or Grease to Collect; Long Draft Tube insures a Pure Steady Light.
Instructions covering the care of all Lanterns included in each Lantern.

Large Heavy Ring; stands Erect.

New Style Three Step Dome gives added Strength and protects the Flame from Wind and Rain. Flame positively cannot be Blown Out.

Partially Closed Perforated Guide Ring permits Globe to be Raised Easily and prevents Insects collecting in Dome.
Three Step Globe Cap Symmetrical and Strong.

New Style, Easy Working, Inside Globe Lift, Simple and Positive Lift Lock made of Heavy Steel, cannot Work Loose.

Large Two Step Air Chamber furnishes just the required amount of Pure Air.
Extra Large Brass Filler Cap, well Threaded, no Leakage.
Big Mouth Brass Oil Hole Set into Fount, no Funnel required to Fill.

Heavy Reinforced Steel 1X, 2A Quality Redipped Tin Bright Finish throughout.
Mammoth Fount with New Style Squat Base holds sufficient Oil to Burn for 56 Hours Use;
(Most Lanterns hold Oil to Burn from 27 to 35 Hours Use.)

Per Dozer

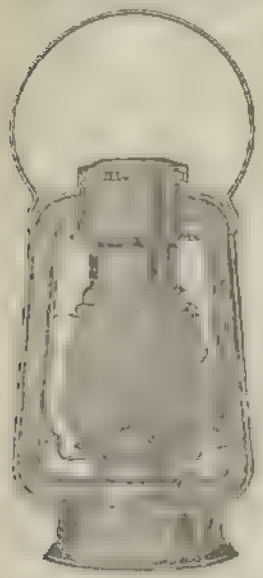
No. 300—Height with Bail and Ring Down 14 inches; Diameter of New Style Squat Base 7¾ inches; Bright Finish Plain Steel Wire Bail, Weight per Dozen Boxed 38 lbs. $20 00

Each Lantern put up in a Heavy Manila Bag, Half Dozen in a Double Walled Fiber Case.

LANTERNS

★NORLEIGH DIAMOND ORIGINAL COLD BLAST

Heavy IX AA Quality Redipped Tin; Handsome Design; Best Workmanship; No Raw Edges; New Idea Finishes; New Idea Wood Bail Handle; New Idea Big Mouth Brass Oil Hole; New Idea Standing Bail; New Idea Side Lift, Simple and Effective; Double Seamed Bottom, Spun On; Will Not Leak; Fitted with Selected Globes.



★NORLEIGH DIAMOND

SHORT GLOBE

Reinforced Steel, Tinned and Retinned and Lacquered Cold Blast Burner No. 2 with 1 inch Wick Inserted; **Low Pattern,** Cold Blast Globe No. NS Standing Plain Wire Bail.

Body Made of Good Quality Redipped Tin, Bright Finish.

Per Dozen

No. 201—Oil Capacity Sufficient for 25 Hours Use; Height with Bail and Ring Down 1[illegible] inches; Diameter of Base 6½ inches; Weight per Dozen 40 lbs..... **$18 00**

Half Dozen in a Case

★NORLIEIGH DIAMOND

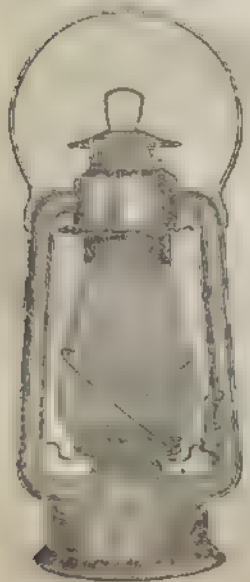
Heavy Reinforced Steel, Tinned and Retinned and Lacquered C[illegible]Blast Burner No. 2 with 1 inch Wick Inserted; Cold Blast Globe No. 2 Large Mouth Oil Hole; Standing Wire Bail with Natural Finish Wood Handle

Body Made of Heavy IX AA Quality Redipped Tin, Bright Finish.

Per Dozen

No. 100CB—Oil Capacity Sufficient for 27 Hours Use; Height with Bail and Ring Down 15½ inches; Diameter of Base 6[illegible] Weight per Dozen 45 lbs **$19 00**

[illegible]



★NORLEIGH DIAMOND

Reinforced Steel, Tinned and Retinned and Lacquered Cold Blast Burner No. 2 with 1 inch Wick Inserted; Cold Blast Globe No. 2; Large Mouth Oil Hole, Standing Plain Wire Bail.

Body Made of Good Quality Redipped Tin, Bright Finish. We reserve right to ship any good make—on account of Market.

Per Dozen

No. 75/CB—Oil Capacity Sufficient for 25 Hours Use; Height with Bail and Ring Down 14½ inches; Diameter of Base 6½ inches, Weight per Dozen 30 lbs. **$15 50**

Half Dozen in a Case

LANTERNS

★NORLEIGH DIAMOND ORIGINAL COLD BLAST

★NORLEIGH DIAMOND

SMALL SIZE PET

These Lanterns, Though Smaller in Size than Our Large Norleigh Diamond Cold Blast Lanterns, are so Perfectly Constructed that they Really Furnish as Much Light as the Ordinary Cold Blast Lantern with No. 2 Burner and Globe.

Dome Top Fount; Heavy Reinforced Steel, Tinned and Retinned and Lacquered Cold Blast Burner No. 0 with 5/8 inch Wick Inserted; Pet Cold Blast Globe; Oil Capacity Sufficient for 22 Hours Use; Height with Bail and Ring Down 13 inches; Diameter of Base 5¼ inches.

Per Dozen

No. 100PET—Bright Finish; Heavy IX AA Quality Redipped Charcoal Tin; Bright Finished Wires; Natural Finish Wood Handle; [illegible] **$16 00**

One Dozen in a Case

★NORLEIGH DIAMOND

SMALL SIZE PET

These Lanterns, Though Smaller in Size than Our Large Norleigh Diamond Cold Blast Lanterns, are so Perfectly Constructed that they Really Furnish as Much Light as the Ordinary Cold Blast Lantern with No. 2 Burner and Globe.

Dome Top Fount; Heavy Reinforced Steel, Tinned and Retinned and Lacquered Cold Blast Burner No. 0 with 5/8 inch Wick Inserted; Pet Cold Blast Globe; Oil Capacity Sufficient for 22 Hours [illegible] ing Down 13 inches; [illegible]

Per Dozen

No. 150PNP—Heavy Nickel Plated; Heavy IX AA Quality Redipped Charcoal Tin; Nickel Plated Wires; Natural Finish Wood Handle; Weight per Dozen 35 l[illegible] **$24 00**

One Dozen in a Case

BOYS LANTERNS

CADET

Per Dozen

No. 55—Brass Dome, Burner and Fount; Lights without Removing Globe; Furnished with ½ inch Wick; Cadet Globe; Height with Bail Down 7 inches; Diameter of Base 3¼ inches; Weight per Dozen 12 lbs..... **$6 00**

Half Dozen in a Box; Six Dozen in a Case

LANTERNS

★NORELIGH DIAMOND HOT BLAST

Heavy IX AA Quality Redipped Tin; Handsome Design; Best Workmanship; No Raw Edges; New Idea Finishes; Plain Bail Handle, New Idea Big Mouth Oil Hole; New Idea Standing Bail; New Idea Side Lift, Simple and Effective; Double Seamed Bottom, Spun On, Will Not Leak; Fitted with Selected Globes.

DASH

Dash Board Attachment; Tin Reflector 6x7¼ inches, Extends to Top of Globe.

Heavy Reinforced Steel Burner, Tinned and Retinned and Lacquered, No. 0 with ⅝ inch Wick Inserted; Tubular Globes No. 0; Large Mouth Oil Hole; Standing Plain Wire Bails.

Bodies Made of Heavy IX AA Quality Redipped Tin; Red Enameled.

With Bulls Eye Globe

Per Dozen

No. 100DE—Oil Capacity Sufficient for 22 Hours Use; Height with Bail Down 13½ inches; Diameter of Base 5¾ inches; Weight per Dozen 40 lbs..... $21 00

Half Dozen in a Case

DASH

Dash Board Attachment; Tin Reflector 6x7¼ inches, Extends to Top of Globe.

Heavy Reinforced Steel Burner, Tinned and Retinned and Lacquered, No. 0 with ⅝ inch Wick Inserted; Tubular Globes No. 0; Large Mouth Oil Hole; Standing Plain Wire Bails

Bodies Made of Heavy IX AA Quality Redipped Tin; Red Enameled.

With Plain Globes

Per Dozen

No. 75D—Oil Capacity Sufficient for 22 Hours Use; Height with Bail Down 13½ inches; Diameter of Base 5¾ inches; Weight per Dozen 40 lbs..... $20.00

Half Dozen in a Case

REGULAR PATTERN

Bodies Made of Good Quality Redipped Tin; Bright Finish.

Heavy Reinforced Steel Burner, Tinned and Retinned and Lacquered, No. 0 with ⅝ inch Wick, Inserted; Tubular Globes No. 0; Large Mouth Oil Hole; Standing Plain Wire Bails.

We reserve right to ship any good make—on account of Market.

Per Dozen

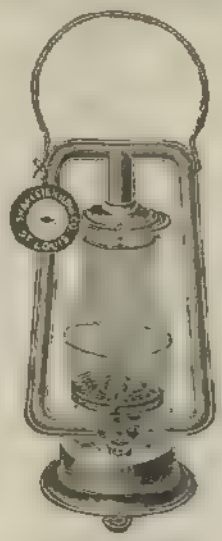
No. 45/0—Regular Fount; Oil Capacity Sufficient for 22 Hours Use; Height with Bail Down 13½ Inches; Diameter of Base 5¾ inches; Weight per Dozen 30 lbs..... $10 00

One Dozen in a Case

LANTERNS

★NORLEIGH DIAMOND HOT BLAST

Heavy IX AA Quality Redipped Tin; Handsome Design; Best Workmanship; No Raw Edges; New Idea Finishes; Plain Bail Handle; New Idea Big Mouth Oil Hole; New Idea Standing Bail; New Idea Side Lift, Simple and Effective; Double Seamed Bottom, Spun On, Will Not Leak; Fitted with Selected Globes.



CONTRACTORS

Provided with Two Thief Proof Lugs which Allow Lanterns to be Securely Nailed, Chained or Locked Down.

Heavy Reinforced Steel Burner, Tinned and Retinned and Lacquered, No. 0 with ⅝ inch Wick Inserted; Tubular Globes No. 0; Large Mouth Oil Hole; Standing Plain Wire Bails.

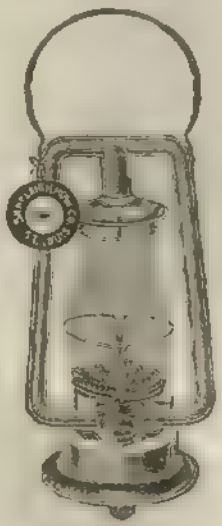
Bodies Made of Heavy IX AA Quality Redipped Tin; Red Enameled.

With Clear Globe

Per Dozen

No. 50CON—Oil Capacity Sufficient for 22 Hours Use; Height with Bail Down 13½ inches; Diameter of Base 5¾ inches; Weight per Dozen 36 lbs..... $12.50

One Dozen in a Case



CONTRACTORS

Provided with Two Thief Proof Lugs which Allow Lanterns to be Securely Nailed, Chained or Locked Down.

Heavy Reinforced Steel Burner, Tinned and Retinned and Lacquered, No. 0 with ⅝ inch Wick Inserted; Tubular Globes No. 0; Large Mouth Oil Hole; Standing Plain Wire Bails.

Bodies Made of Heavy IX AA Quality Redipped Tin; Red Enameled.

With Red Globe

Per Dozen

No. 75CR—Oil Capacity Sufficient for 22 Hours Use; Height with Bail Down 13½ inches; Diameter of Base 5¾ inches; Weight per Dozen 36 lbs..... $15.00

One Dozen in a Case

STANLEY RULE & LEVEL CO.'S PLANES

Bench planes are divided into four classes: Smooth, Jack, Fore and Jointer Smooth for finishing or smoothing off flat surfaces. Where the uneven spots are of slight area its short length will locate these and leave a smooth surface when finished Jack, to true up the edges of a board in the rough and prepare it for the Fore or Jointer. Fore is simply a short jointer and, being lighter, is preferred by some workmen to a longer plane Jointer, a finishing plane for large surfaces and invariably used to true up edges of boards so that they can be closely fitted or jounted together.

BAILEY'S IRON BENCH

Cast iron japanned frames, varnished rosewood handles and knobs, polished caps, tempered and polished English steel cutters, screw and lever adjustments.

Smooth, Plain Bottom

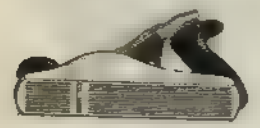
No.	1	2	3	4	4½
Length, in.	5½	7	8	9	10
Cutter, in.	1¼	1⅝	1¾	2	2⅜
Each	$2.00	2 50	2.70	2.90	3.35

One in a Box

Jack, Fore, Jointer, Smooth Bottom

Nos.	5	5½	6	7	8
Style	Jack	Jack	Fore	Jointer	Jointer
Length, in.	14	15	18	22	24
Cutter, in.	2	2¼	2⅜	2⅜	2⅜
Each	$3.35	3.75	4.30	4.85	5.85

One in a Box



Smooth, Corrugated Bottom

Nos.	30	30	40	4½C
Length, in.	7	8	9	10
Cutter, in	1⅝	1¾	2	2⅜
Each	$2.50	2.70	2.90	3.35

One in a Box

Jack, Fore, Jointer, Corrugated Bottom

Nos.	50	5½C	60	70	80
Style	Jack	Jack	Fore	Jointer	Jointer
Length, in.	14	15	18	22	24
Cutter, in.	2	2¼	2⅜	2⅜	2⅜
Each	$3.35	3.75	4.30	4.85	5.85

One in a Box

BED ROCK IRON BENCH

Owing to its solidity and variety of adjustments this plane surpasses all others for fine work on all woods. The cutter frog and bottom are so designed, machined and fitted that they are practically one solid piece of metal, preventing any chance of vibration.

Finish same as Bailey Iron Bench.

Smooth, Plain Bottom

Nos.	602	603	604	604½
Length, in.	7	8	9	10
Cutter, in.	1⅝	1¾	2	2⅜
Each	$2.85	3.00	3.20	3.75

One in a Box

Jack, Fore, Jointer, Smooth Bottom

Nos.	605	605½	606	607	608
Style	Jack	Jack	Fore	Jointer	Jointer
Length, in.	14	15	18	22	24
Cutter, in.	2	2¼	2⅜	2⅜	2⅜
Each	$3.75	4.15	4.65	5.45	6.35

One in a Box

Smooth, Corrugated Bottom

Nos.	602C	603C	604C	604½C
Length, in.	7	8	9	10
Cutter, in.	1⅝	1¾	2	2⅜
Each	$2.85	3.00	3.20	3.75

One in a Box

Jack, Fore, Jointer, Corrugated Bottom

Nos.	605C	605½C	606C	607C	608C
Style,	Jack	Jack	Fore	Jointer	Jointer
Length, in.	14	15	18	22	24
Cutter, in.	2	2¼	2⅜	2⅜	2⅜
Each	$3.75	4.15	4.65	5.45	6.35

One in a Box

STANLEY ADJUSTABLE STEEL PLANES

The bottoms and sides are one piece of pressed steel. The cutters are of the double type and are adjustable endwise by means of the small lever. The handles and knobs are made of rosewood.

Smooth, Plain Bottom

No. 104—Length 9 inches, cutter 2⅛ in
Each $2.50

One in a Box

Jack, Plain Bottom

No. 105—Length 14 inches, cutter 2⅛ in.
Each $3.00

BAILEY'S WOOD BENCH

The frog is held in place by two machine screws which pass through the top iron and screw into two brass lugs. These lugs are screwed and securely pinned into the wood bottom.

Varnished beechwood bottoms, knobs and handles. Japanned cast iron frames and caps, tempered and polished steel cutters, screw and lever adjustments.

Smooth and Block

Nos.	21	22	23	24	25
Style	Smooth	Smooth	Smooth	Smooth	Block
Length, in.	7	8	9	8	9½
Cutter, in.	1¾	1¾	1¾	2	1¾
Each	$1.90	1.90	1.90	1.90	1.90

One in a Box

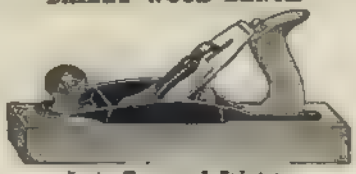
Smooth, Handled

Nos.	35	36	37
Length, in.	9	10	13
Cutter, in.	2	2⅜	2⅜
Each	$2.25	2.55	2.90

Nos. 35 and 36 One in a Box
No. 37 Called "Jennie Smooth"
One in a Paper

STANLEY RULE & LEVEL CO.'S PLANES

BAILEY WOOD BENCH



Jack, Fore and Jointer

Nos.	26	27	27½	28
Style	Jack	Jack	Jack	Fore
Length, in.	15	15	15	18
Cutter, in.	2	2⅛	2¼	2⅜
Each	$2 00	2 25	2.30	2.50

Nos.	29	30	31	32
Style	Fore	Jointer	Jointer	Jointer
Length, in.	20	22	24	26
Cutter, in.	2⅜	2⅜	2⅜	2⅜
Each	$2 55	2.65	2.75	3.00

One in a Paper

STANLEY'S WOOD BENCH

They have a simple lever adjustment and are well made.

The cutters are of the double cutter type, of high grade steel, ground and honed ready for use. They are adjustable endwise by means of a lever and are held in place by a lever thumb screw instead of a cam. The bottoms, handles and knobs are made of beech and the entire plane is well finished.

Smooth

Nos.	122	135
Length, inches	8	10
Cutter, in.	1¾	2⅛
Each	$1.40	1.85

NOTE—No. 135 has handle. No. 122 does not have handle

One in a Box

Jack, Fore and Jointer

Nos.	127	129	132
Style	Jack	Fore	Jointer
Length, in.	15	20	26
Cutter, in.	2⅛	2⅜	2⅜
Each	$1 85	2.20	2 70

One in a Paper

STANLEY'S CARRIAGE MAKERS' RABBET PLANES

Especially adapted for the heavy framing required in mining work, for carriage or wagon building. Rosewood handles and knobs.

Smooth Bottom

No. 10½—Length 9 in., cutter 2⅛ in.
Each $3 00

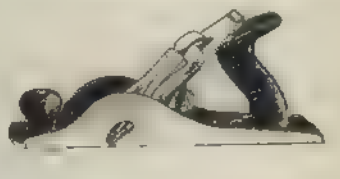
One in a Box

STANLEY'S CARRIAGE MAKERS' SAFETY PLANES

Corrugated Bottom

No. 10½C—Length 9 in., cutter 2⅛ in.
Each $3 00

One in a Box



Plain Bottom

No. 10—Length 13 in., cutter 2⅜ in.
Each $3.50

One in a Box

Plain Bottom

Handle and knob are adjustable and can be tilted in either direction. Fitted with spurs on both sides, so that it will rabbet across grain.

No. 10¼—Length 13 in., cutter 2⅛ in
Each $4 00

One in a Box

BAILEY'S BLOCK PLANES

Block planes are used with one hand for planing across the grain particularly the ends of boards or called "blocking in." The cutter rests at an angle of 20 degrees instead of 45 degrees as in bench planes, and the cutter bevel is on the upper side instead of the lower

Adjustable

Nos.	6½	16
Finish	Japanned	Nickeled
Length, inches	6	6
Cutter, in.	1⅝	1⅝
Each	$1.35	1.50

One in a Box

Adjustable

No. 9¾—Length 6 in., cutter 1⅝ in., japanned trimmings, rosewood handle. ..... Each $1.70

One in a Box

BAILEY'S BLOCK PLANES

Adjustable

No. 15—Length 7 inches, cutter 1⅝ in., japanned ..... Each $1.80

One in a Box

Knuckle Joint

Nickel trimmings

Nos.	18	19
Length, in.	6	7
Cutter, in.	1¾	1⅝
Each	$1.60	1 75

One in a Box

STANLEY'S BLOCK PLANES

Adjustable

Designed especially for manual training work.

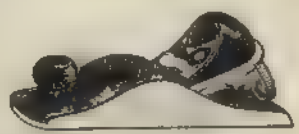
No. 203—Length 5½ in., cutter 1⅜ in., screw adjustment ..... Each $1 20

One in a Box

Adjustable

No. 120—Length 7⅛ in., cutter 1⅝ in., lever adjustment ..... Each $1 00

One in a Box



Adjustable

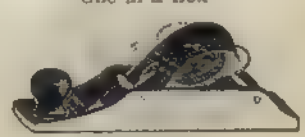
No. 220—Length 7⅛ in., cutter 1⅝ in., screw adjustment ..... Each $1 00

One in a Box

Adjustable

No. 103—Length 5½ in., cutter 1⅝ in., lever adjustment ..... Each $0 70

One in a Box



Double End

The center cutter seat and slot used for ordinary block plane work, the other for use as a bull nose plane

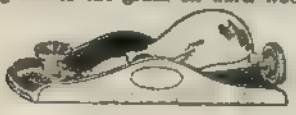
No. 130—Length 8 in., cutter 1⅝ in., japanned trimmings ..... Each $1 00

One in a Box

STANLEY RULE & LEVEL CO.'S PLANES

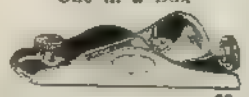
STANLEY'S LOW ANGLE BLOCK
Adjustable

Low angle block plane cutters rest on an angle of 12 degrees instead of 20 degrees, as regular block planes, permitting great ease in working across the grain on hard woods.



Nos.	65	65½
Finish	Nickel	Japan
Length, inches	7	7
Cutter, inches	1⅝	1⅝
Each	$1.70	1.60

One in a Box



Nos.	60	60½
Finish	Nickel	Japan
Length, inches	6	6
Cutter, inches	1⅝	1⅝
Each	$1.55	1.40

One in a Box

Nos. 61—Length 6 in., cutter 1⅝ in., japanned trimmings; cutter is adjustable endwise but the throat is not adjustable ..... Each $1.35

One in a Box

No. 62—Length 14 in., cutter 2 in., japanned trimmings, adjustable. Each $3.60

One in a Box

STANLEY'S NON-ADJUSTABLE BLOCK

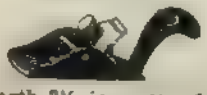
Especially adapted for cutting across grain on heavy work where more power is required.

No. 110—Length 7⅛ in., cutter 1⅝ in., Each $0.70

One in a Box

No. 102—Length 3½ in., cutter 1⅝ in., Each $0.50

One in a Box



No. 100—Length 3½ in., cutter 1 inch handled ..... Each $0.35

One in a Box

No. 101—Length 3½ in., cutter 1 inch, Each $0.25

Six in a Box

STANLEY'S RABBET AND BLOCK

A detachable side will easily change it from a block to a rabbet plane and vice versa.

No. 140—Length 7 in., cutter 1⅝ in., adjustable sidewise and set on a skew, japanned trimmings ..... Each $1.80

One in a Box

BULL NOSE RABBET

Useful for working close up in corners or other difficult places. The mouth is adjustable for different widths.

No. 75—Length 4 in., cutter 1 in., japanned trimmings ..... Each $0.50

One in a Box

SIDE RABBET

No. 98—Right Hand No. 99—Left Hand

Very convenient for side rabbeting in trimming dados, mouldings or grooves of all sorts. A reversible nose piece allows to work up in close corners

No. 98—Right hand, 4 in. long, ⅛ in. cutter ..... Each $1.30

No. 99—Left hand, 4 in. long, ⅛ in. cutter ..... Each $1.30

One in a Box

HANDLED RABBET

Will lie perfectly flat on either side and can be used equally as well with either right or left hand while planing into corners or up against perpendicular surfaces; fitted with a detachable depth gauge, without spur, japanned.

Nos.	180	181	182
Length, inches	8	8	8
Cutter, inches	1½	1¼	1
Each	$1.50	1.50	1.50

One in a Box

HANDLED RABBET

Same as No. 180 series, only fitted with a spur which permits working across the grain, japanned.

Nos.	190	191	192
Length, inches	8	8	8
Cutter, inches	1½	1¼	1
Each	$2.20	2.20	2.20

One in a Box

DUPLEX, FILLETSTER AND RABBET

Has two seats for the cutter, one for regular work and the other for use as a bull nose. Has spur and removable depth gauge. The adjustable fence can be used on either side and slides under the bottom, regulating width of cut. Remove arms and fence and a rabbet plane is obtained.

No. 78—Length 8⅛ in., cutter 1⅝ in., japanned ..... Each $2.10

One in a Box

RABBET AND FILLETSTER

The sides and bottom being square with each other, the plane will lie perfectly flat on either side. The adjustable fence slides under the bottom regulating width of cut. Spur on each side for working across the grain, also an adjustable depth gauge. These can be attached to either side for right or left hand work. Front part can be detached, making a bull nose plane for working close up into corners or other difficult places.

No. 278—Length 6¾ in., cutter 1 in., japanned ..... Each $2.40

One in a Box

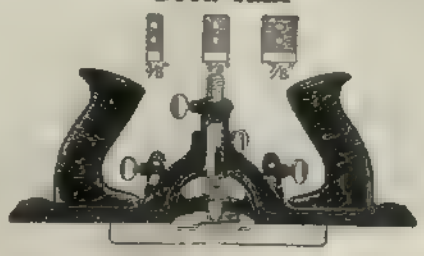
SKEW CUTTER, FILLETSTER AND [illegible]

Extra wide skew cutter, adjustable spurs fitted to each side, fence and depth gauge can be attached to either side for right or left hand work. The adjustable fence slides under the bottom regulating width of cut. Remove arms and fence and a skew rabbet plane is obtained.

No. 289—Length 8⅛ in., cutter 1¾ in., japanned ..... Each $2.40

One in a Box

DOOR TRIM



Will make mortises for butts, face and strike plates, escutcheons, etc., up to a depth of 5/16 and a width of 3 in. Cutter can be set to work from either end or across. A fence regulates the position of cut and insures the sides being parallel, can also be made into a router plane.

No. 171—Length 9 in., japanned, with three cutters, ⅜, ⅝ and ⅞ in., Each $3.60

One in a Box

STANLEY RULE & LEVEL CO.'S PLANES

EDGE TRIMMING

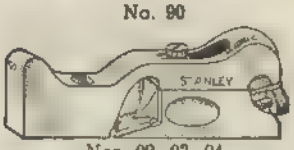
Designed especially for trimming or smoothing the ends of boards such as siding, etc., for a square or close fit. Has a right angle rest or guide from the cutter edge and the cutter works on a skew, giving an easy shaving cut. In the guide are two screw holes to which beveled wood blocks can be attached enabling the user to make a slanting cut.

No 95—Length 6 in., cutter ⅞ in., japanned ..... Each $1.50

One in a Box

CABINET MAKERS' RABBET

No. 90



Nos. 92, 93, 94

The sides and bottom are square with each other, the planes will lie perfectly flat on either side, and can be worked either right or left hand. Adjustable throats; the width of the throat opening can be widened or narrowed. They are also fitted with the side groove or "Hand-y" grip feature. The cutters are adjustable endwise, nickel plated.

Nos.	90	92	93	94
Length, inches	4	5½	6½	7½
Cutter, inches	1	¾	1	1¾
Each	$2.85	2.85	3.25	3.75

One in a Box

SCRUB PLANE

For quickly planing down a rough board that is too wide to conveniently rip with a hand saw, the extra heavy cutter having a rounding edge instead of square.

No. 40—Length 9½ in., cutter 1⅛ in., beech handle and knob.....Each $1.40

No. 40½—Length 10½ in., cutter 1½ in., beech handle and knob...Each 2.00

One in a Box

STANLEY'S ADJUSTABLE CIRCULAR

Flexible steel face which can be accurately adjusted by graduated scale, for planing the inside and outside of circles. The face is fastened at the center and adjusted at the ends by means of screws.

No. 113—Length 10 in., cutter 1¾ in., japanned .....Each $3.90

One in a Box

VICTOR ADJUSTABLE CIRCULAR

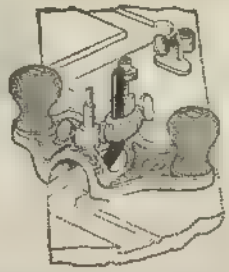
Flexible steel face which can be accurately adjusted for planing the insides and outside of circles. The face is fastened at each end and adjusted by screw at the center.

No. 20½—Length 10 in., cutter 1¾ in., japanned .....Each $4.40

No. 20—Length 10 in., cutter 1¾ in., nickel plated .....Each 5.00

One in a Box

ROUTER PLANES



For surfacing the bottom of grooves or other depressions parallel with the general surface of the work.

No. 71—Length 7⅛ in. Open throat, with one ¼ in. and one ⅛ in. cutter, nickel plated.....Each $2.70

One in a Box

No. 71½—Length 7⅛ in. Closed throat, with one ¼ in. and one ⅛ in. cutter, nickel plated.....Each $2.10

One in a Box

DADO PLANES

Have skew cutters, an adjustable depth gauge, and two adjustable spurs, one on each side of the plane. Length 8 inches, japanned.

No. 39—

Cutter, in.	¼	⅜	½	⅝	¾	⅞	1
Each	$2.10	2.10	2.10	2.10	2.10	2.10	2.10

One in a Box

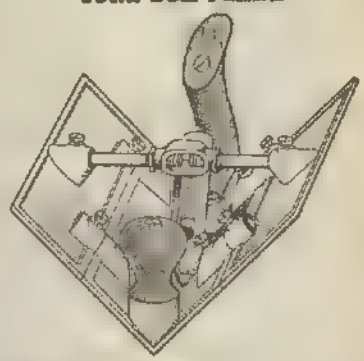
BELT MAKERS' PLANE

Designed for chamfering down the ends or laps of a belt before fastening them together. Fitted with an adjustable throat, by means of which a wide or narrow opening may be given to the mouth, or slot, for the cutter. Cutter is adjustable endwise by means of the screw shown at the back. Hardwood handle, japanned.

No. 11—Length 5¾ inches, cutter 2⅜ inches .....Each $2.75

One in a Box

CORE BOX PLANE



Adapted for large core boxes. Furnished with one pair of extra sides, or, as they are called, additional sections. With one pair of sections it will work semi-circles up to 5 inches in diameter. Additional sections can be supplied, each extra pair adding 2½ in. to the diameter of the semi-circle that can be worked, up to 10 in. in diameter, the practical limits of the plane. Handle and knob of beech. Full nickel plated

No. 57—Length 10 inches, cutter ⅞ inches .....Each $5.35

One in a Box

STANLEY HAND BEADERS

Universal

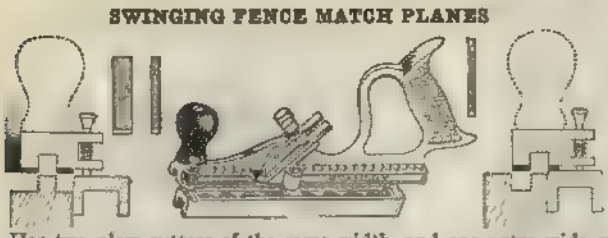
For beading, reeding or fluting straight or irregular surfaces and for light routering. With each beader are furnished a square gauge for straight work and an oval gauge for curved work. There are also furnished eight cutters sharpened at both ends and embracing the following assortment: 6 single beads ⅛, 5/16, ¼, 7/16, ⅜ and ½ in.; 2 fluting tools 5/16 and ½ in.; 4 reeding tools (2 beads 5/16 in., 3 beads ¼ in., and three beads ⅛ in. and 4 beads ⅛ in.), 2 routers ⅛, ¼ in., and ⅜ in. blank, which latter cutter the owner can file up as he desires. Curved handles. Made entirely of metal.

No. 66—11½ in. long, 8 cutters, nickel plated .....Per dozen $18.00

One in a Box

STANLEY RULE & LEVEL CO.'S PLANES

SWINGING FENCE MATCH PLANES

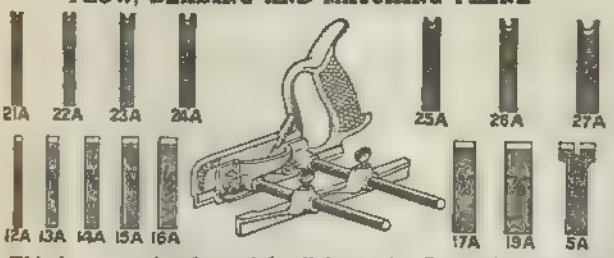


Has two plow cutters of the same width, and one extra wide cutter. The fence in one setting exposes two cutters for cutting the tongue, and when reversed, leaves only one exposed for cutting the groove. On thicker boards the plane works on center, the extra wide cutter is substituted for groove cutter when cutting tongue. Nickel plated, rosewood knobs.

No. 48—10½ in. long, cuts 5/16 in. groove, on boards ¾ in. to 1¼ in. centers, on ⅞ in.....Each $3.45

No. 49—10½ in. long, cuts 3/16 in. groove, on boards ⅛ in. to ⅝ in. centers on ½ in.....Each 3.45

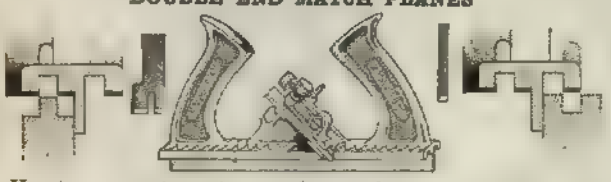
PLOW, BEADING AND MATCHING PLANE



This is a very handy tool for light work. It consists of a main stock, carrying a spur and a depth gauge, and forming a support for one side of the cutter; a sliding section, carrying a spur and forming a support for the other side of the cutter, and a fence with a 5-in. adjustment. The handle is metal, being a part of the main stock. The cutters comprise 7 plow and dado bits, ¼, 5/16, ⅜, 7/16, ½, ⅝ and ¾-in.; 7 beading tools, ⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½-in.; and a ¼-in. tonguing tool.

No. 50—9¼ in. long, nickel plated, 15 cutters.....Each $6.50

DOUBLE END MATCH PLANES



Has two separate cutters, a plow, and a tongue tool, both governed by one permanent fence. The tongue tool has one edge wider than the other, which overhangs one side when tonguing on center. Both tongue and groove are cut by working the tool in the same direction, by merely reversing it end for end. The plane is nickel plated and has iron handles cast with the body.

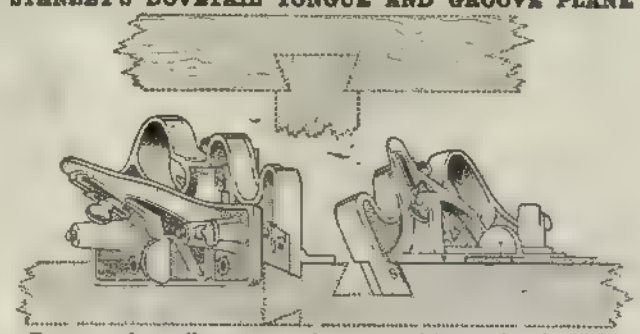
No. 148—9 in. long, cuts ¼ in. groove, on boards ¾ in. to 1 in. centers on ⅞ in.....Each $2.80

PLOW, DADO, FILLETSTER AND MATCHING PLANE

Skew cutters are the feature of this plane. It consists of a main stock carrying a spur, a depth gauge and a slitting cutter, a sliding section carrying a spur and forming an extra sole for the plane, and a fence (rosewood face) which can be set for either plow or filletster work. It has a rosewood handle and knob. The cutters comprise 8 plow and dado bits, 3/16, ¼, 5/16, ⅜, ½, ⅝, ⅞ and 1¼ in.; a 1½ in. filletster cutter; a ¼ in tonguing tool, and a slitting cutter.

No. 45—10½ in. long, nickel plated, 11 cutters.....Each $7.20

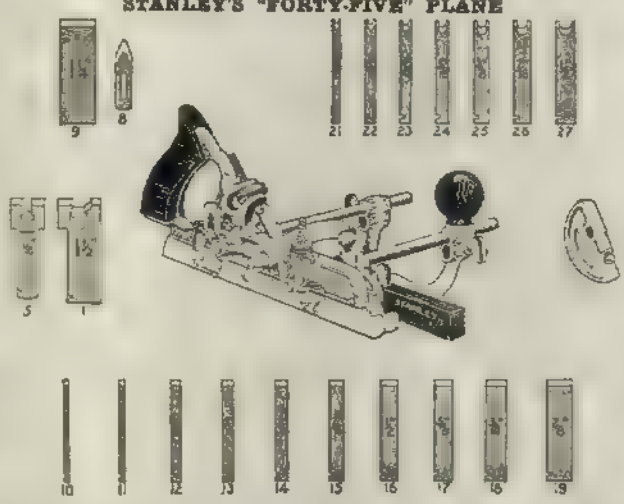
STANLEY'S DOVETAIL TONGUE AND GROOVE PLANE



Forms a dovetail tongue and groove with one hand. Will cut any size grooves and tongues to fit with sides at flare of 20 degrees, where the width of the neck is more than one-quarter of an inch and the depth of groove not more than three-quarters of an inch. The tongue and groove are cut separately, and can be made with parallel or tapering sides.

No. 444—9 in. long, nickel plated.....Each $8.75

STANLEY'S "FORTY-FIVE" PLANE



Seven tools in one in compact and practical form: 1. Beading and center beading plane. 2. Plow. 3. Dado. 4. Rabbet and filletster 5. Match plane. 6. Sash plane. 7. Slitting plane. The plane has two principal parts, a main stock and a sliding section. The main stock carries the handle, cutter adjustment, a slitting tool, depth gauge, and forms a bearing for one edge of the cutter. The sliding section slides on two arm secured in the stock and has a bearing for the other edge, allowing cutters of different widths to be used. A fence also slides on these arms for use when working as a plow, beader or filletster, to gauge the distance from the cutter to the edge of the board, and to keep the cutter at right angles to same. When used as a filletster, the fence slides under the bottom of the plane and determines the width of cutter exposed to the work.

The plane is fitted with spurs for use across the grain, etc., and can be used either right or left hand. With each plane are furnished twenty-one cutters, all of which are shown in the cut. The cutters, together with the plane, are packed in a neat steel box. All metal parts are nickel plated. The handle, knob and fence are made of rosewood. For beading at a distance from the edge of a board, attach cam rest (see cut at right of plane) to the front arm between the sliding section and fence to prevent the fence sagging.

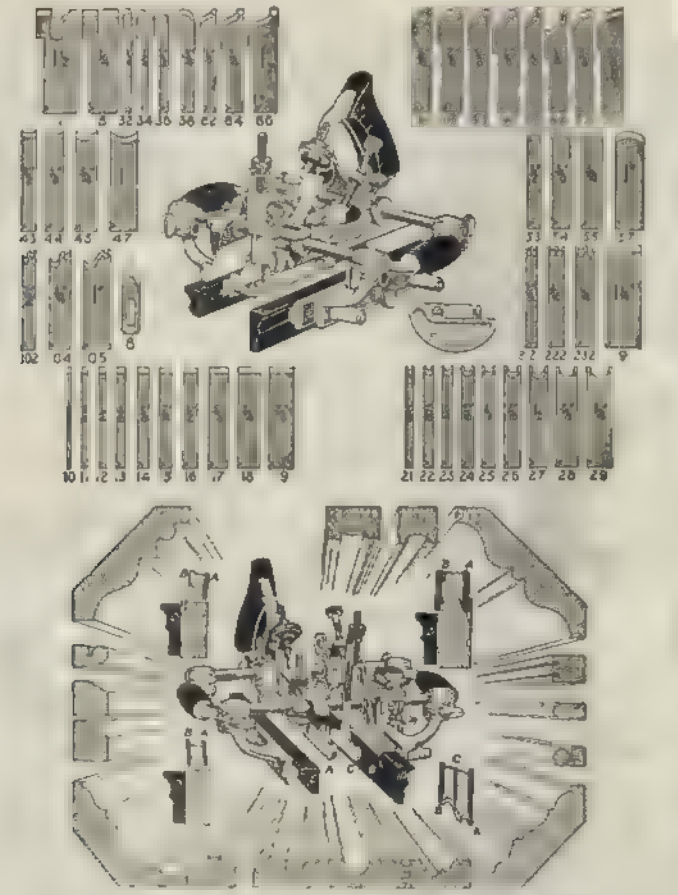
No. 45—Nickel plated, with 21 cutters.....Each $11.50

The following cutters are furnished with each plane. The price is given in case duplicates should be required.

No.	Size	Style	Each
1—	1½ in.	sash tool	$0.50
5—	¼ in.	match tool	.50
8—		slitting tool	.30
9—	1¼ in.	filletster	.25
10—	⅛ in.	plow & dado tool	.15
11—	3/16 in.	plow & dado tool	.15
12—	¼ in.	plow & dado tool	.15
13—	5/16 in.	plow & dado tool	15
14—	⅜ in.	plow & dado tool	.20
15—	7/16 in.	plow & dado tool	.20
16—	½ in.	plow & dado tool	.20
17—	⅝ in.	plow & dado tool	$0.20
18—	¾ in.	plow & dado tool	.20
19—	⅞ in.	plow & dado tool	.25
21—	⅛ in.	beading tool	.15
22—	3/16 in.	beading tool	.15
23—	¼ in.	beading tool	.15
24—	5/16 in.	beading tool	.20
25—	⅜ in.	beading tool	.20
26—	7/16 in.	beading tool	.25
27—	½ in.	beading tool	.25

STANLEY RULE & LEVEL CO'S PLANES

STANLEY'S "FIFTY-FIVE" PLANE



This plane has: A main stock, "A," which carries the cutter adjustment, a handle, a depth gauge, a slitting gauge, and has a steel bottom forming a bearing for one edge of the cutter. A sliding section, "B," with a steel bottom gives bearing for the other edge of the cutter and slides on arms secured in the main stock. This bottom can be raised or lowered so that, in addition to allowing the use of cutters of different widths, cutters can be used having one edge higher or lower than the edge supported in the main stock. An extra support or stop is necessary for cutters which first enter the wood at a point between the outside edges, and is a benefit for such cutters which, if the plane were accidentally tilted, would tend to gouge the work. The auxiliary center bottom, "C," which can be adjusted for width or depth fulfills this requirement. Fence, "D," has a lateral adjustment, by means of a screw, for extra fine work. The fences can be used on either side of the plane, and the rosewood guides can be tilted to any desired angle up to forty-five degrees, by loosening the screws on the face. Fence, "E," can be reversed for center beading wide boards.

The plane is fitted with spurs for working across the grain, and a special cam rest, to be located on the front arm when working at a distance from the edge of the board, to keep the fence from sagging, or on the rear arm on certain work, to prevent the possibility of the plane rocking. All parts are interchangeable.

The four small cuts in the corners show how the bottom should be set for different forms of cutters, and the great importance of having the fences adjusted so that the cutters will not run.

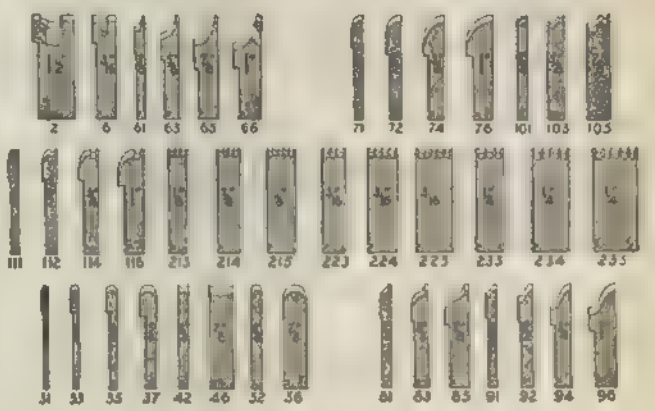
This tool, in addition to being a beading and center beading plane, a plow, dado, rabbet, fillister, and match plane, a sash plane and a slitting plane, is also a superior moulding plane, and will accommodate cutters of almost any shape and size. In fact, it is **"A planing mill within itself."** The regular equipment sent with the plane comprises fifty two cutters, all of which are shown in the cut. These cutters, together with the plane and all its attachments, are packed in a neat steel box. A further line of forty-one cutters can be furnished from factory. Cutters of practically any form can be used in the plane, which the owner can make from blanks or order from sketch. All metal parts of the plane are nickel plated. The handle and fences are made of selected rosewood, and every part is well finished.

No. 55—Nickel plated, with 52 cutters.....Each $22.50

The following cutters are furnished with each plane. The price is given in case duplicates should be required.

No.	Size	Style	Each
1	1½ in.	sash tool	$1 00
5	¼ in.	match tool	1 00
8		slitting tool	60
9	1¼ in.	fillister	50
10	⅛ in.	plow & dado tool.	30
11	3/16 in.	plow & dado tool	30
12	¼ in.	plow & dado tool	30
13	5/16 in	plow & dado tool	30
14	⅜ in	plow & dado tool.	40
15	7/16 in	plow & dado tool.	40
16	½ in	plow & dado tool.	40
17	9/16 in	plow & dado tool.	40
18	⅝ in	plow & dado tool	40
19	¾ in	plow & dado tool	50
21	⅛ in	beading tool	30
22	3/16 in	beading tool	30
23	¼ in	beading tool	30
24	5/16 in	beading tool	40
25	⅜ in	beading tool	40
26	7/16 in	beading tool	50
27	½ in.	beading tool	50
28	9/16 in	beading tool	60
29	⅝ in	beading tool	60
32	¼ in	fluting tool	60
34	⅜ in	fluting tool	60
36	½ in	fluting tool	60
38	¼ in	fluting tool	$0 60
43	½ in	hollow	40
44	5/8 in	hollow	40
45	¾ in.	hollow	40
47	1 in	hollow	40
53	½ in	round	40
54	5/8 in	round	40
55	¾ in	round	40
57	1 in.	round	40
62	½ in.	quarter hollow.	90
64	¾ in.	quarter hollow.	1 00
73	⅝ in.	quarter round..	90
75	⅞ in	quarter round..	1 00
82	½ in	reverse ogee	90
84	¾ in	reverse ogee	1 00
86	1 in	reverse ogee	1 00
93	⅝ in	Roman ogee.	90
95	⅞ in	Roman ogee	1 00
102	½ in	Grecian ogee	90
104	¾ in	Grecian ogee	1 00
106	1 in.	Grecian ogee	1 00
113	⅝ in.	¼ rd with bead	90
115	⅞ in	¼ rd with bead	1 00
212	⅛ in	reed'g tool 2 bds	40
222	3/16 in	reed'g tool, 2 bds	40
232	¼ in	reed'g tool 2 bds	40

SPECIAL CUTTERS FOR "FIFTY-FIVE" PLANE

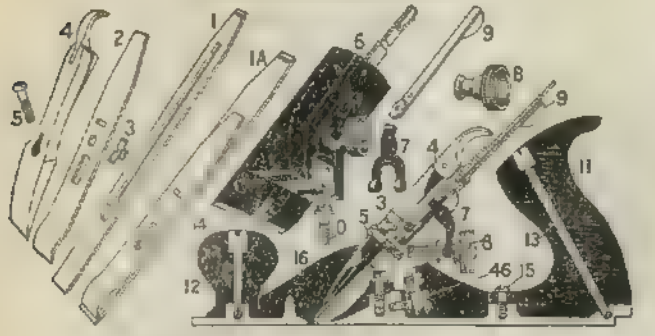


These cutters are not carried in stock, but may be ordered for direct shipment by simply specifying the number of cutter required.

No.	Size	Style	Each
2	1½ in.	sash tool	$1 00
6	3/16 in.	match tool	1 00
31	3/16 in.	fluting tool	60
33	5/16 in	fluting tool	60
35	7/16 in	fluting tool	60
37	9/16 in	fluting tool	60
42	⅜ in	hollow	40
46	7/16 in	hollow	40
52	⅝ in	round	40
56	7/16 in	round	40
61	⅝ in	quarter hollow	90
63	⅝ in	quarter hollow	90
65	⅞ in	quarter hollow	1 00
66	1 in.	quarter hollow	1 00
71	⅜ in	quarter round	90
72	½ in	quarter round	90
74	¾ in.	quarter round	1 00
76	1 in	quarter round	1 00
81	⅜ in	reverse ogee	90
83	⅝ in.	reverse ogee	90
85	⅞ in.	reverse ogee	1 00
91	⅝ in	Roman ogee	$0 90
92	½ in	Roman ogee	90
94	⅝ in.	Roman ogee	1 00
96	1 in	Roman ogee	1 00
101	⅝ in.	Grecian ogee	90
103	⅝ in	Grecian ogee	90
105	⅞ in	Grecian ogee	1 00
111	5/8 in	¼ rd with bead.	90
112	½ in	¼ rd with bead.	90
114	⅝ in	¼ rd with bead.	1 00
116	1 in	¼ rd with bead	1 00
213	⅛ in.	reed'g tool 3 bds.	60
214	⅛ in	reed'g tool 4 bds.	80
215	⅛ in	reed'g tool, 5 bds	1 00
223	3/16 in	reed'g tool 3 bds	60
224	3/16 in	reed'g tool, 4 bds.	80
225	3/16 in.	reed'g tool, 5 bds.	1 00
233	¼ in	reed'g tool 3 bds.	60
234	¼ in	reed'g tool, 4 bds	80
235	¼ in	reed'g tool, 5 bds.	1 00

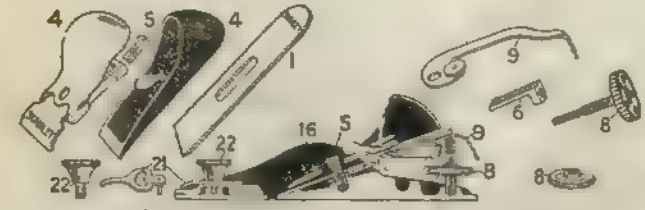
STANLEY RULE & LEVEL CO.'S PLANE PARTS

LIST OF PLANE PARTS



Parts for Bailey and Bedrock Iron Planes

No.	Name of Part	No.	Name of Part
1A	Double plane iron	9	Lateral adj. lever
1	Single plane iron	10	Frog screw
2	Plane iron cap	11	Plane handle
3	Cap screw	12	Plane knob
4	Lever cap	13	Handle bolt and nut
5	Lever cap screw	14	Knob bolt and nut
6	Frog complete	15	Plane handle screw
7	"Y" adjusting lever	16	Plane bottom
8	Adjusting nut	46	Frog adj. screw



Parts for Bailey and Stanley Block Planes

No.	Name of Part	No.	Name of Part
1	Single plane iron	9	Lateral adj. lever
4	Lever cap	11	Plane handle
5	Lever cap screw	16	Plane bottom
6	Frog complete	21	Eccentric plate
7	Adjusting lever	22	Finger rest knob
8	Adjusting nut		

NOTE—In ordering parts for Planes, specify the number of Part desired together with the number of plane.

STANLEY BENCH PLANE IRONS

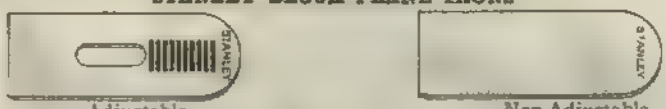
Single Double

For "Bed Rock" and "Bailey" iron and wood planes. The proper bevel for grinding the cutter is at an angle of about twenty-five degrees. This angle should be observed when re-grinding or re-honing the cutter. The same plane iron fits all the planes opposite the sizes given below, but the cap irons in the iron and wood planes are not interchangeable. In ordering, always give number of plane for which iron is wanted.

		Single	Double
1⅝-in.	For planes Nos. 2, 2C, 602, 602C	Each $0.21	$0.35
1¾-in.	For planes Nos. 3, 3C, 20, 20½, 21, 22, 23, 25, 113, 603, 603C	Each .23	.38
2 -in.	For planes Nos. 4, 4C, 5, 5C, 9, 24, 26, 35, 604, 604C, 605, 605C	Each .25	.42
2⅛-in.	For plane No. 27	Each .27	.45
2¼-in.	For planes Nos. 5½, 5½C, 27½ 605½ 605½C.	Each .28	.47
2⅜-in.	For planes Nos. 4½, 4½C, 6, 6C, 7, 7C, 11, 28, 29, 30, 31, 36, 604½, 604½C, 606, 606C, 607, 607C	Each .29	.48
2⅝-in.	For planes Nos. 8, 8C, 32, 33, 34, 37, 608, 608C.	Each .32	.50

Half Dozen in a Box

STANLEY BLOCK PLANE IRONS



Adjustable Non-Adjustable

In ordering, always give number of plane for which iron is wanted. When more than one number is given on a line, all numbers take the same iron.

No. 101	—Irons for planes Nos. 100, 101	Each $0.05
No. 103	—Iron for plane No. 103	Each .10
No. 102	—Iron for plane No. 102	Each .10
No. 60	—Irons for planes Nos. 60, 60½, 61, 203	Each .17
No. 120	—Iron for plane No. 120	Each .17
No. 110	—Irons for planes Nos. 110, 130	Each .13
No. 140	—Iron for plane No. 140	Each .20
No. 62	—Iron for plane No. 62	Each .45
No. 9½	—Irons for planes Nos. 9½, 9¾, 15, 15½, 16, 17, 18, 19, 65, 65½, 131, 220	Each .17

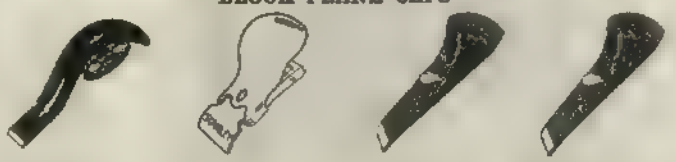
Half Dozen in a Box

STANLEY PLANE HANDLES

No. 2	—For planes Nos. 2, 2C, 602 and 602C.	Each $0.40
No. 3	—For planes Nos. 3, 3C, 603, 603C, 10⅛, 10½C, 72 and 72½	Each .40
No. 4	—For planes Nos. 4, 4C, 4½, 4½C, 604, 604C, 604½, 604½C, 112, 62 and 87	Each .40
No. 5	—For planes Nos. 5, 5C, 5½, 5½C, 605, 605C, 605½ and 605½C	Each .40
No. 6	—For planes Nos. 6, 6C, 7, 7C, 8, 8C, 10, 606, 606C, 607, 607C, 608 and 608C	Each .40

For Iron Bottom Planes Half Dozen in a Box

BLOCK PLANE CAPS



No. 110 No. 18 No 9½ No. 60

No. 110	—For plane No. 110	Each $0.20
No. 18	—For planes Nos. 18 and 19	Each .20
No. 9½	—For planes Nos. 9½ and 220	Each .20
No. 60	—For planes Nos. 60 and 60½	Each .20

One Dozen in a Box

NOTE—In ordering plane caps, give No. of Plane as well as cap.

SMOOTH PLANE CAPS

No. 3 No. 4 No 4½

No. 3	—For planes Nos. 3, 3C, 603 and 603C	Each $0.20
No. 4	—For planes Nos. 4, 4C, 604 and 604C	Each .20
No. 4½	—For planes Nos. 4½, 4½C, 604½ and 604½C	Each .20

NOTE—In ordering plane caps, give No. of Plane as well as cap.

PLANE HANDLES

No. 10 Beechwood No 12

No. 10	—For wood jack planes	Per dozen $1.00
No. 12	—For wood fore and jointer planes	Per dozen 1.50

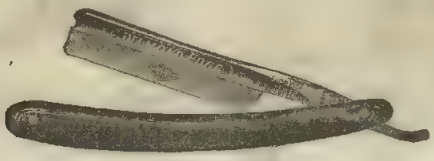
One Dozen in a Box

RAZORS

*DIAMOND EDGE

Diamond Edge Razors are Hand Forged from the Best English Crucible Cast Steel, Finest Hamburg Ground, Best Finish and Highest Quality Throughout. This Insures a Razor Unsurpassed for both Barbers and Private use.
FULLY GUARANTEED.

End View showing Concaved Shape Cutting Edge and Extra Stiff Reinforced Back



*DIAMOND EDGE

Cut shows Non-Rusting Metal Reinforcing Washers on each side of Tang next to Handle. Holds the Blade tone so that in closing the edge of Blade will never "Cross Over" and strike side of Handle

RAZOR

NO. DE17/300

This consists of the best points of the wedge shape of the old English razor with its stiff, rigid edge and the light weight and attractiveness of the more modern concaved razor.

It is designed to meet the requirements of all who have difficulty in shaving with comfort owing to tender skin and a wiry beard.

This Razor is giving universal satisfaction to the user who has that tough beard and tender skin. It is made with a stiff edge, much desired in the old English razor, yet, has the light weight of the new concave razor. The edge is so constructed that it will not quiver or rattle under the most trying conditions, and has stood the test of of the most exacting.

Warrant

This razor is made with that exactness which can only be attained by workmen thoroughly trained in their Art. Extreme care is given to the forging, tempering and grinding of this razor, which is followed by the most rigid inspection. We warrant them to give perfect satisfaction if given reasonable care. There is absolutely no excuse for a soiled or rusty razor.

A dealer should not be asked to exchange such a razor.

Blade ⅝ inch Only, Crocus Polished Back and Grooves, the Concaved Half of Blade Glazed with etched *DIAMOND EDGE Trade Mark; Diamond Edge Etched in Gold in Groove; Plain, Smooth Tang; Black Rubber Handle.

SPECIAL OFFER

In order to introduce this New Razor we are offering with every Dozen Razors, One Dozen of our Norleigh Diamond Shaving Stick Soap. The Soap is given absolutely free with every Dozen Razors purchased. This Soap is receiving justly merited recognition as the Best Article on the Market for the purpose. Further Description below.

*NORLEIGH DIAMOND
SHAVING STICK—(DEMULCENT)

No. ND300

Compounded by Expert Soap and Perfume Makers, of Purest Materials, Chemically Correct and Under Most Sanitary Conditions. It Produces a Heavy, Thick, Close and Abundant Lather, which is Lasting, Retains the Moisture and Stays Thick and Creamy on the Face. Softens the Beard and Skin, and will Positively Not Produce a Burning Sensation on the Face. Highly Perfumed.

Each Stick Put up in a Finely Embossed Nickel Plated Metal Box, 3⅛x1½ inches, with Close Fitting Telescope Cover; Each of these Metal Boxes Packed in a Carton; Six Cartons in a Handsome Display Rack for the Show Case.

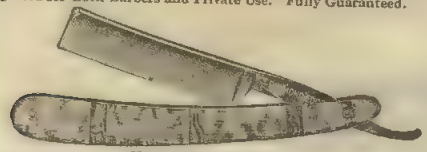
No. DE17/300—One Dozen Razors and One Dozen Soap as Described Above..... $34.00

Packed Complete in a Box; Weight 6 lbs.

RAZORS

★DIAMOND EDGE

The DIAMOND EDGE Razors are Hand Forged from the Best English Crucible Cast Steel, Finest Hamburg Ground, Best Finish and Highest Quality Throughout. This Insures a Razor Unsurpassed for Both Barbers and Private Use. Fully Guaranteed.



No. 14— ★DIAMOND EDGE

Finest Quality Pieced **Abalona Pearl Handle;** Full Concave Ground Blade, Half Crocus Polished with the Words DIAMOND EDGE Etched in Gold on a Gold Panel; Plain File Tang.

Width, Inch	⅝
Blade, Point	Square
Weight per Dozen, Lbs.	2
Per Dozen	$72.00

Half Dozen in a Box

No. 16— ★DIAMOND EDGE

Highest Quality **Mottled Red Rubber Handle;** Full Hollow Ground Blade, Highly Glazed; the Words DIAMOND EDGE Gold Etched on Blade; Plain File Tang.

Width, Inch	⅝
Blade, Point	Square
Weight per Dozen, Lbs.	2
Per Dozen	$34.00

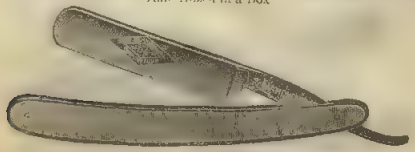
Half Dozen in a Box

No. 18— ★DIAMOND EDGE

Highest Quality Heavy **Black Rubber Handle;** Extra Full Crocused Polished Blade with Rounded Quill Back; the Words DIAMOND EDGE Etched on Gold Band on Blade; Plain File Tang.

Width, Inch	⅝	⅝
Blade, Point	Square	Round
Weight per Dozen, Lbs.	2	2
Per Dozen	$38.00	36.00

Half Dozen in a Box



No. 24— ★DIAMOND EDGE

Extra Quality Pearl Gray Pyralin Handle; Full Concaved; Half Crocus Polished Blade with Rounded Back; Concaved Ground; DIAMOND EDGE Trade Mark Stenciled on Blade; Plain File Tang.

Width Blade, Inch	⅝
Blade P	Round
Weight per Dozen, Lbs.	2
Per Dozen	$27.00

Half Dozen in a Box

RAZORS

★DIAMOND EDGE

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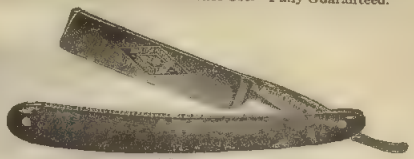

★DIAMOND EDGE

No. 23

Tortoise Shell Oval Celluloid Handle; Concave Ground Half Crocus Polished Blade; DIAMOND EDGE Trade Mark Stenciled on Blade; Plain File Tang.

Width, Inch	⅝
Blade, Point	Square
Weight per Dozen, Lbs.	2
Per Dozen	$27.00

Half Dozen in a Box

No. 08—SHAPLEIGH HARDWARE CO.

Black Rubber Flat Handle; Concaved Ground Blade, Glazed; Plain File Tang.

Width, Inch	⅝
Blade, Point	Square
Weight per Dozen, Lbs.	2
Per Dozen	$17.00

Half Dozen in a Box

★DIAMOND EDGE

No. 25

Bright Red Colored Pyralin Handle; Concaved Half Crocus Polished Blade; DIAMOND EDGE Trade Mark Stenciled on Blade; Plain File Tang.

Width, Inch	⅝
Blade Point	Square
Weight per Dozen, Lbs.	2
Per Dozen	$27 00

Half Dozen in a Box

★DIAMOND EDGE

No. 26

Light Ambered Pyralin Handle; Otherwise same as No. 25.

Width, Inch	⅝
Blade, Point	Square
Weight per Dozen, lbs.	2
Per Dozen	$27 00

Half Dozen in a Box

RAZORS

*DIAMOND EDGE

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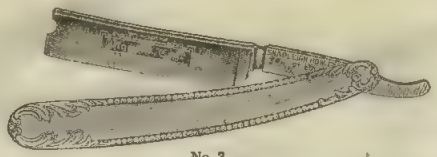
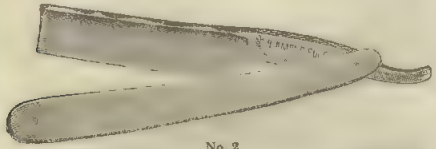


No. 3

Fancy Beaded Ivory Celluloid Oval Handle; Full Concaved Ground Blade, Crocus Polished and Gold Etched; **Genuine Ivory Scale Tang.**

Width, Inches	5/8 Hollow
Blade, Point	
Per Dozen	$40.00

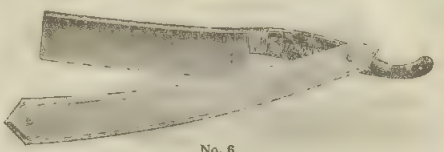


No. 2

Genuine Ivory Flat Handle; Full Concaved Ground Blade, Glazed; Plain File Tang.

Width, Inches	5/8 Square	5/8 Round
Blade, Point		
Per Dozen	$48.00	48.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. 6

Ivory Celluloid Flat Handle; Full Concaved Ground Blade, Crocus Polished; **Black Rubber Scale Tang.**

Width, Inches	5/8 Square	5/8 Round
Blade, Point		
Per Dozen	$40.00	40.00

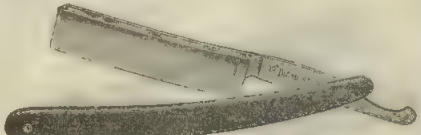
Half Dozen in a Box; Weight per Dozen about 2 lbs.

No. 12

Tortoise Shell Flat Celluloid Handle; Full Concaved Ground Blade, Crocus Polished and Gold Etched; Fine Quality Heavy **Pearl Scale Tang.**

Width, Inches	5/8 Square
Blade, Point	
Per Dozen	$52.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

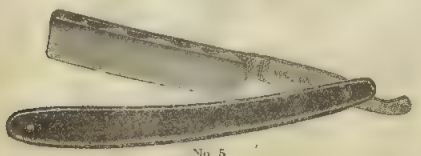


No. 93

Black Rubber Oval Handle; Full Concaved Ground Blade, Crocus Polished; Fine Quality Heavy **Pearl Scale Tang** with Solid Tip.

Width, Inches	5/8 Square
Blade, Point	
Per Dozen	$33 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

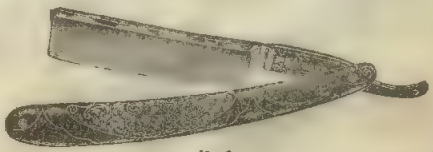


No. 5

Black Rubber Flat Handle; Full Concaved Ground Blade, Crocus Polished, Fine Quality Heavy Pearl Scale Tang.

Width, Inches	5/8 Square	5/8 Round
Blade, Point		
Per Dozen	$42 00	42.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. 8

Black Rubber Oval Embossed Handle; Full Concaved Ground Blade, Crocus Polished; Heavy **Black Rubber Scale Tang.**

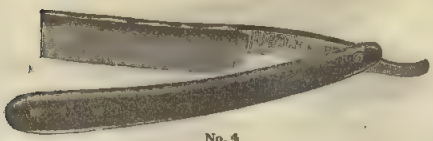
Width, Inches	5/8 Square	5/8 Round
Blade, Point		
Per Dozen	$40 00	40 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

RAZORS

★DIAMOND EDGE

Hand Forged from the Best English Crucible Cast Steel; Finest Hamburg Ground, Best Finish and Highest Quality Throughout. This Insures a Razor Unsurpassed for Both Barbers and Private Use. Fully Guaranteed.



No. 4

Black Rubber Oval Handle; Full Concaved Ground Blade, Glazed; Plain File Tang.

Square Point

Width, Inches	5/8	6/8	7/8	8/8
Per Dozen	$25.00	26.00	26.00	26.00

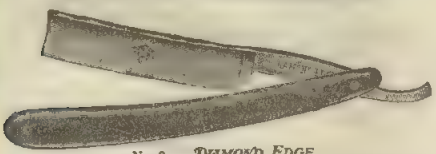
Round Point

Width, Inches	6/8	7/8
Per Dozen	$26.00	26.00

Hollow Point

Width, Inches	7/8
Per Dozen	$26.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. 8— ★DIAMOND EDGE

Black Rubber Oval Handle; Extra Full Hollow Ground Blade, Glazed and Etched; Plain File Tang.

Square Point

Width, Inches	5/8	6/8	7/8	8/8
Per Dozen	$32.00	32.00	32.00	32.00

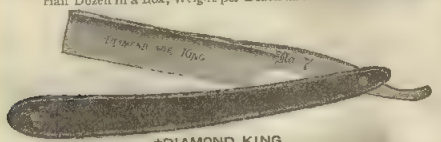
Round Point

Width, Inches	6/8	7/8
Per Dozen	$32.00	32.00

Hollow Point

Width, Inches	7/8
Per Dozen	$32.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

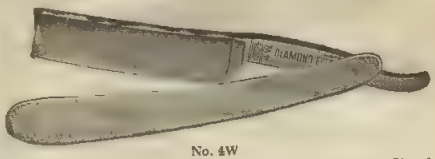


★DIAMOND KING

Black Rubber Flat Handle; Full Concaved Ground Blade, Crocus Polished and Etched; Fancy Back; Scroll, File Back Tang. Per Dozen

No. 7—Square Point; Width 5/8 inch $42.00

Half Dozen in a Box, Weight per Dozen about 2 lbs.



No. 4W

White Bone Flat Handle; Full Concaved Ground Blade, Glazed Plain File Tang.

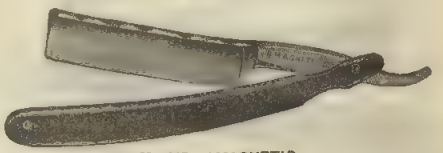
Square Point

Width, Inches	5/8
Per Dozen	$33.00

Round Point

Width, Inches	6/8
Per Dozen	$33.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. 777— ★MAGNETIC

Has Highly Magnetized Blade; Famous for Its Curative Qualities; **Black Rubber Oval Handle** with Patent Grip; Full Hollow Ground Blade, Glazed; Plain File Tang.

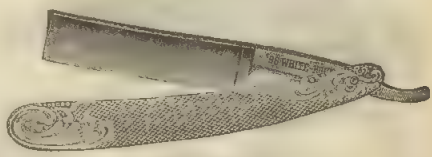
Square Point

Width, Inches	7/8	8/8
Per Dozen	$40.00	40.00

Round Point

Width, Inches	8/8
Per Dozen	$40.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



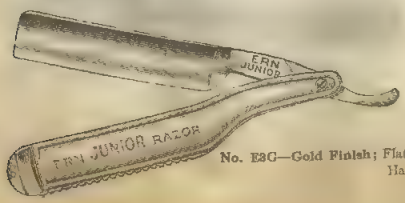
★WHITE HOUSE

Ivory Celluloid Fancy Oval Handle; Full Concaved Ground Blade, Crocus Polished; Plain File Tang.

Per Dozen

No. 96—Square Point; Width 5/8 inch $30.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



ERN JUNIOR

Made of the Best English Crucible Cast Steel, Full Hollow Ground; Honed and Sharpened ready for Use. Handles are made of One Piece of German Silver and put together so they will not Compress or Break in any way. Handle absolutely protects the Blade of the Razor against Breaking or Ruining of the Edge. Blades and Handles perfectly Balanced. Finished in Gold, Silver and Gun Metal.

Per Dozen

No. E3G—Gold Finish; Flat File Tang; Square Point; Width 5/8 inches $40.00

Half Dozen in a Box, Weight per Dozen about 2 lbs.

RAZORS

Hand Forged from the Best English Crucible Cast Steel, Finest Hollow Ground, Best Finish, Highest Quality. Fully Warranted

No. 200—★SHAPLEIGH BARBER

Black Rubber Flat Handle; Full Concaved Ground Blade, Glazed and Etched; Plain Smooth Tang.

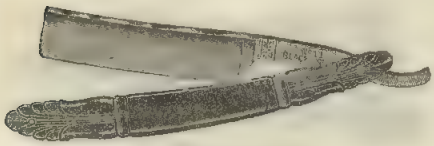
Square Point

Width, Inches	3/8	1/2	5/8	3/4
Per Dozen	$24.00	24.00	24.00	24 00

Round Point

Width, Inches	1/2	5/8
Per Dozen	$24.00	24.00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



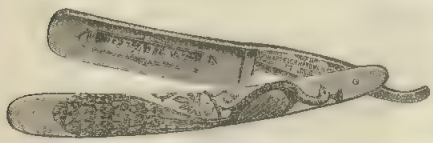
No. 11—★BLACK PRINCE

Fancy Black Rubber Flat Handle; Full Concaved Ground Blade, Glazed; Oval Smooth Tang.

Square Point

Width, Inches	3/4
Per Dozen	$30 00

Half Dozen in a Box, Weight per Dozen about 2 lbs.



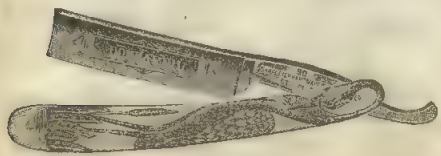
★BEAUTY

Ivory Celluloid Oval Handle; Peacock Design in Natural Colors; Concaved Ground Blade, Crocus Polished and Gold Etched; Plain File Tang.

Per Dozen

No. 70—Round Point; Width 5/8 inch $30 00

Half Dozen in a Box, Weight per Dozen about 2 lbs.



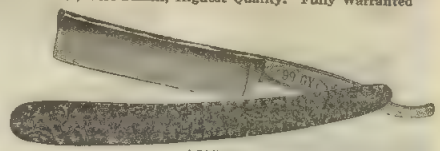
★NONPAREIL

Ivory Celluloid Oval Handle, Crane Design in Natural Colors; Concaved Ground Blade, Crocus Polished and Gold Etched; Plain File Tang.

Per Dozen

No. 90—Square Point; Width 5/8 inch $30 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



★GYPSY

Black and Red Mottled Rubber Oval Handle; Full Concaved Ground Blade, Crocus Polished; Plain File Tang.

Per Dozen

No. 99—Square Point; Width 5/8 inches $27 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

No. 76—★COUNTRY CLUB

Black Rubber Flat Handle; Full Concaved Ground Blade, Glazed and Gold Etched; Plain File Tang.

Square Point

Width, Inches	3/4
Per Dozen	$24 00

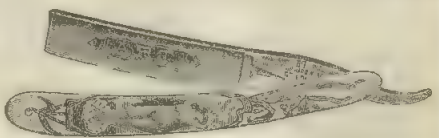
Round Point

Width, Inches	5/8
Per Dozen	$24.00

Hollow Point

Width, Inches	5/8
Per Dozen	$24.00

Half Dozen in a Box, Weight per Dozen about 2 lbs.



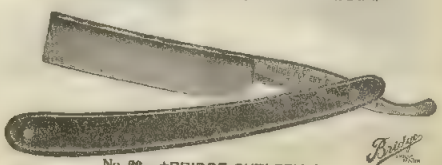
★ART

Ivory Celluloid Oval Handle; Art Design in Exquisite Colors Concaved Ground Blade, Crocus Polished and Gold Etched; Plain File Tang.

Per Dozen

No. 80—Square Point; Width 5/8 inch $30 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. 20—★BRIDGE CUTLERY CO.

Black Rubber Flat Handle; Concaved Ground Blade, Crocus and Gold Etched; Plain File Tang.

Square Point

Width, Inches	1/2	5/8
Per Dozen	$24 00	24 00

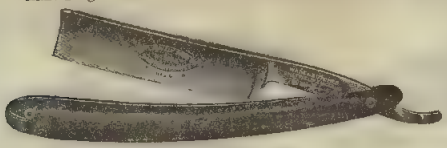
Round Point

Width, Inches	5/8
Per Dozen	$24 00

Half Dozen in a Box; Weight per Dozen about 2 lbs.

RAZORS

Hand Forged from the Best English Crucible Cast Steel, Finest Hollow Ground, Best Finish, Highest Quality. Fully Warranted



Made Exclusively for Shapleigh Hardware Co.

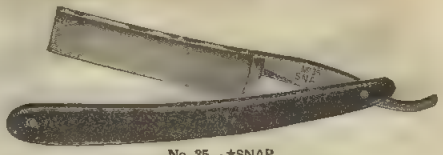
No. 5173— ★WADE AND BUTCHER SPECIAL

Square Point Only

Black Rubber Oval Handle; Full Concaved Ground Blade; Glazed Plain File Tang.

Width, Inches 5/8
Per Dozen **$42.00**

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. 35— ★SNAP

Black Rubber Oval Handle; Concaved Ground Blade, Glazed; Plain File Tang.

Square Point

Width, Inches	1/2	5/8
Per Dozen	**$10 00**	**16.00**

Round Point

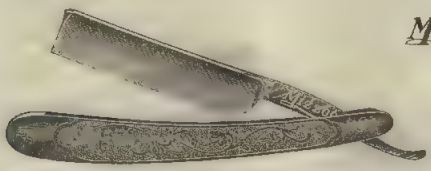
Width, Inches	5/8
Per Dozen	**$16 00**

Half Dozen in a Box; Weight per Dozen about 2 lbs.

★MIZZOO CUTLERY CO.

Fine Quality English Crucible Cast Steel Blades, Best German Ground; Each Razor Honed and Sharpened Ready for Use. Guaranteed

These are the Best Cheap Guaranteed Razors on the Market; they Will Give Excellent Service



Fancy Black Rubber Oval Handle; Concaved Ground Blade, Glazed; Oval File Tang. Per Dozen

No. M3—Square Point; Width 5/8 inch **$15.50**

Half Dozen in a Box; Weight per Dozen about 2 lbs.

Fancy Ivory Celluloid Oval Handle; Concaved Ground Blade Glazed; Oval File Tang. Per Dozen

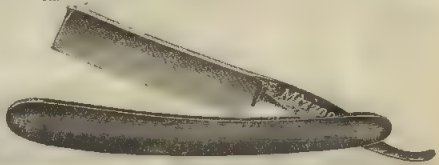
No. M4—Square Point; Width 5/8 inch **$16.00**

Half Dozen in a Box; Weight per Dozen about 2 lbs.

Plain Black Rubber Oval Handle; Concaved Ground Blade Glazed; Oval File Tang. Per Dozen

No. M2—Square Point; Width 5/8 inch **$15 00**

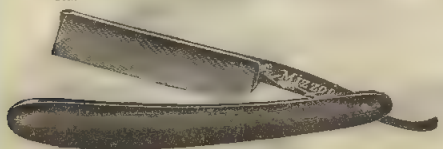
Half Dozen in a Box; Weight per Dozen about 2 lbs



Plain Black Rubber Oval Handle; Concaved Ground Blade Glazed and Etched; Flat File Tang. Per Dozen

No. M1 -Square Point; Width 5/8 inch **$14 00**

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. M5

Plain Black Rubber Oval Handle; Concaved Ground Blade, Glazed; Flat File Tang.

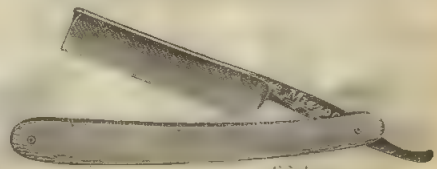
Square Point

Width, Inches 5/8
Per Dozen **$12 00**

Round Point

Width, Inches 5/8
Per Dozen **$12 00**

Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. M6

White Bone Oval Handle; Concaved Ground Blade, Glazed; Flat File Tang.

Square Point

Width, Inches 5/8
Per Dozen **$12 00**

Round Point

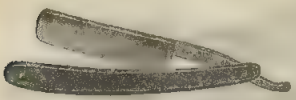
Width, Inches 5/8
Per Dozen **$12.00**

Half Dozen in a Box; Weight per Dozen about 2 lbs.

RAZORS

GEO. WOSTENHOLM & SON. I*XL AND PIPE

Best Quality English Crucible Razor Steel, Highly Tempered, Carefully Ground and Tested, Honed and Sharpened Ready for Use

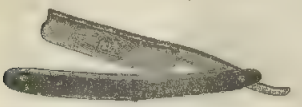


I*XL

Black Rubber Flat Handle; Hollow Ground Blade, Full Polished; Pearl Scale File Tang.

Per Dozen

No. 01846—Round Point; Width 5/8 inch. **$60.00**

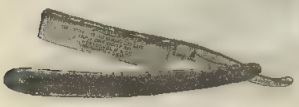


I*XL

Black Rubber Oval Handle; Three Quarter Concaved Blade, Full Polished and Gold Etched; Plain Smooth Tang.

Per Dozen

No. 01974—Hollow Point; Width 5/8 inch **$22.00**



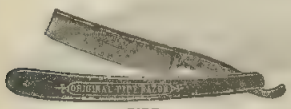
PIPE

Black Rubber Oval Handle; Concaved Ground Blade, Glazed; Plain Smooth Tang.

Per Dozen

No. 02363—Square Point; Width 5/8 inch **$22.00**

No. 02364—Square Point; Width 3/4 inch **22.00**

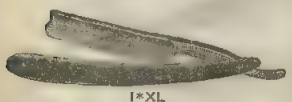


PIPE

Black Rubber Flat Handle; Medium Hollow Ground Blade, Glazed and Etched; Plain Smooth Tang.

Per Dozen

No. 03548—Square Point; Width 5/8 inch. **$22.00**



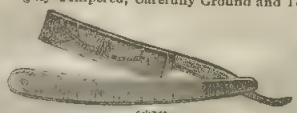
I*XL

Black Rubber Oval Handle; Medium Hollow Ground Blade, Glazed and Gold Etched; Plain Smooth Tang.

Per Dozen

No. 0422—Hollow Point; Width 1/2 inch. **$18.00**

Weight per Dozen about 2 lbs.
All Above, Half Dozen in a Box.

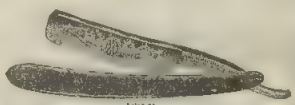


I*XL

Ivory Celluloid Flat Handle; Three Quarters Concaved Ground Blade, Full Polished and Etched; Plain Smooth Tang.

Per Dozen

No. 01051—Square Point; Width 5/8 inch..... **$40.00**



I*XL

Black Rubber Oval Handle; Three Quarter Concaved Blade, Full Polished and Gold Etched; Plain File Tang.

Per Dozen

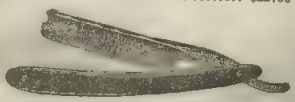
No. 01049—Round Point; Width 5/8 inch..... **$36 00**

I*XL

Black Rubber Oval Handle; Full Concaved Ground Blade, Full Polished and Etched; Plain Smooth Tang.

Per Dozen

No. 8771—Hollow Point; Width 5/8 inch..... **$22.00**

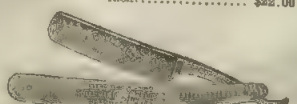


I*XL

Black Rubber Oval Handle; Medium Hollow Ground Blade, Glazed and Gold Etched; Plain Smooth Tang.

Per Dozen

No. 01442G—Hollow Point; Width 5/8 inch..... **$32.00**



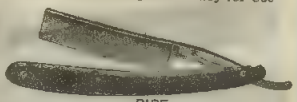
I*XL

Genuine Ivory Flat Handle; Medium Hollow Ground Blade, Full Polished and Etched; Scroll File Tang.

Per Dozen

No. 01048—Round Point; Width 5/8 inch **$60.00**

Weight per Dozen about 2 lbs.
All Above, Half Dozen in a Box.

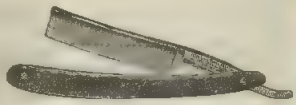


PIPE

Black Rubber Oval Handle; Full Concaved Ground Blade, Glazed; Plain Smooth Tang.

Per Dozen

No. 01461—Square Point; Width 5/8 inch..... **$40.00**

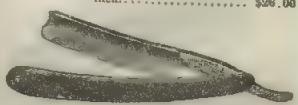


I*XL

Black Rubber Oval Handle; Hollow Ground Blade, Glazed; Plain Smooth Tang.

Per Dozen

No. 01163—Square Point; Width 5/8 inch..... **$26.00**



I*XL

Black Rubber Oval Handle; Medium Hollow Ground Blade, Glazed; Plain Smooth Tang.

Per Dozen

No. 01443—Hollow Point; Width 5/8 inch..... **$15 00**

PIPE

Imitation Tortoise Shell Oval Handle Wedge Ground Blade, Full Polished and Etched; Plain Smooth Tang.

Per Dozen

No. 0821—Square Point; Width 5/8 inch.**$11 00**

JOSEPH ROGERS & SONS SHEFFIELD, ENGLAND

Best Quality English Crucible Razor Steel, Highly Tempered, Carefully Ground and Tested, Honed and Sharpened Ready for Use

Black Rubber Oval Handle; Medium Concaved Ground Blade Glazed; Plain Smooth Tang; Extra Heavy.

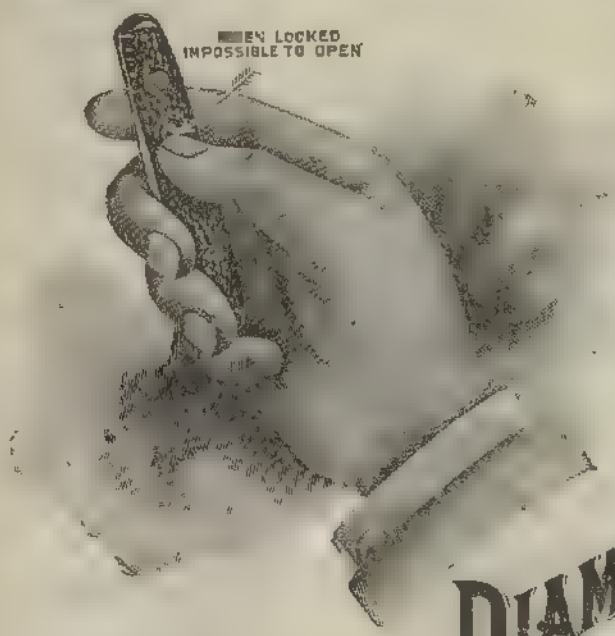
Per Dozen

No. R3160S—Square Point; Width 5/8 inch. **$18 00**

Weight per Dozen about 2 lbs.
All Above, Half Dozen in a Box.

*DIAMOND EDGE "SAFETY PRESS BUTTON" KNIFES

(U. S. Patents 812,601 and 845,130)



The *DIAMOND EDGE* "Safety Press Button" Knife is a convenient Automatic Fly-Open Pocket Knife, which can be Opened and Closed with One Hand; no Danger of Breaking Finger Nails, and can be as easily Operated with Gloves on the Hands as without; the trouble Experienced in Opening an Ordinary Pocket Knife when Fingers are Benumbed with Cold is entirely overcome in the Safety Press Button. The most Valuable Features of this Knife, however, lie in the fact that the **Blades can be locked either in an Open or Closed Position**, avoiding any Possibility of Injuries, caused by Accidental Opening while in the Pocket or Closing while being in use. **When the Safety is Pushed into Position the Blades are Positively Secure and Safe Against Opening in the Pocket. This Knife is the only one on the Market Possessing this Very Important Feature.**

The Life of a "Safety Press Button Knife" is Indefinitely Long and the Mechanism will be Found in the same Good Order when the Blades are Entirely Worn out as when the Knife was Purchased. This is one of the Chief Points of Advantage as Compared with an Ordinary Pocket Knife, as on the *DIAMOND EDGE* "Safety Press Button" there is no Friction Whatever on the Tangs of the Blades. On the Ordinary type of Knife the Blade Springs Wear Away the Tangs, Causing the Points to Rise Above the Handle. This can Never Occur in the "Safety Press Button." The Points will Positively Not Rise Above the Handle Unless the Shape of the Blades should be Changed. This Feature we can Solely Claim for Our Knife, Owing to the Construction of the Locking Mechanism.

This Pattern is the result of about Fifteen Years Thought on the Subject of Automatic Fly-Open Knives, and we have Finally Produced an Article Free from all Undesirable elements so Commonly Found in this Class of Knives. The "Safety Press Button" is a Distinct Departure from the original Mechanism of the Old Style Press Button and a General Improvement in Appearance and Effectiveness.

Second to Appearance and Effectiveness in the Design of the "Safety Press Button," we Considered the Strength and Durability of the Various Parts and Mechanism. These Points are of Vital Importance in a Knife of this Character and ones which could Never be Claimed for the Old Style Press Button.

The Design throughout is Superior and more Symmetrical than the Old Style; the Blades are Fuller and the Handles are more Shapely from every Point Considered.

The Workmanship is of the Highest Class used in the Production of any Pocket Knives in the World. They are Made on the Interchangeable Plan; that is, each and every part of any Knife is an exact duplicate of a similar part of any other Knife of the Same Size or Style.

Blades Made of **Highest Grade English Steel**, Properly Hardened and Tempered to the most Desirable Degree of Hardness so that they will Hold their Edges and will not Break off, Chip out or become a Feather Edge. All Materials are of Best Quality and the Most Suitable which can be Procured on the Market.

*DIAMOND EDGE "SAFETY PRESS BUTTON" POCKET KNIVES

(U. S. Patents 812,601 and 845,130)

POINTS WHICH PROVE THE EXCELLENCE AND SUPERIORITY OF THE DIAMOND EDGE "SAFETY PRESS BUTTON"

Cut Shows Full View of Knife with Sections of Coverings Removed.

Safety Slides Released, Allowing Blades to Open when Buttons are Pressed.

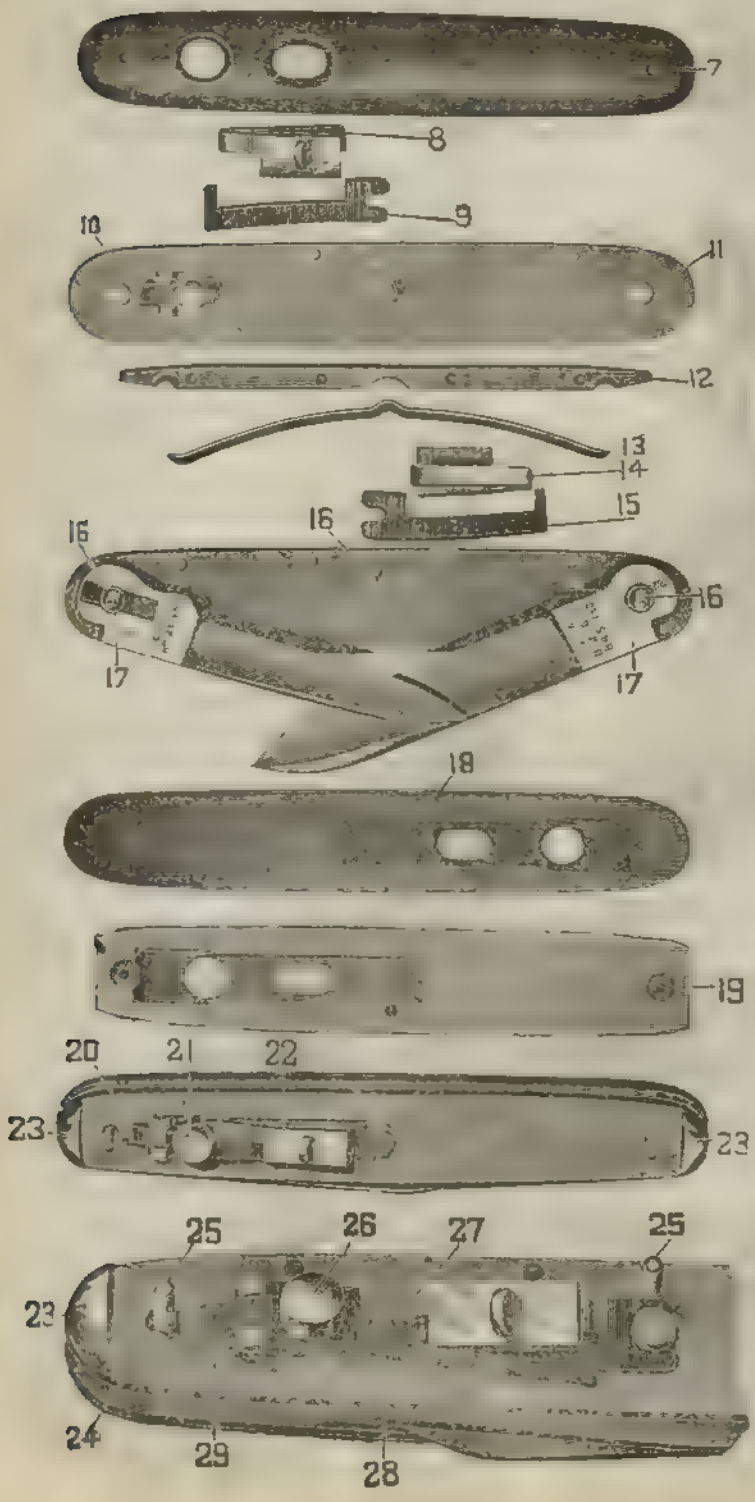


Fig. 7—Showing Black Celluloid Covering Removed

Fig. 8—Locking Device which slides under the Button

Fig. 9—Spring which throws the Lever, Locking the Blade

Fig. 10—Shows Locking Lever
Fig. 11—Shows the Brass Lining of the Knife with Rivet Perforations

Fig. 12—Back Spring of the Knife

Fig. 13—Fly Spring which throws open either Blade
Fig. 14—Reverse Lock for the second Blade in the Knife
Fig. 15—The Spring for Locking the Lever

Fig. 16—Solid Rivet Running through Covering, Blade and Lining of Knife
Fig. 17—Hollow Rivets, going through Blades as well as Linings of Knives (extra Strengthening to Knife)

Fig. 18—Second Black Celluloid Covering or Handle of Knife, showing Depressions for Locking Device

Fig. 19—Showing Scale cut of Pearl Tipped or Bolstered Knife—Depressions showing the place for the Mechanism of the Locking Device

Fig. 20—Locking Lever for Blade
Fig. 21—Button for releasing Lock of Blade
Fig. 22—Sliding Locking Device
Fig. 23—Tips or German Silver Bolsters for Knives

Fig. 24—Showing enlarged Solid Rivet and adding extra strength to Knife
No other Spring Knife made in this way
Fig. 25—Solid Rivet running through Covering, Blade and Lining of Knife
Fig. 26—Showing Press Button, releasing Lock or Lever
Fig. 27—Showing enlarged Locking Device
Fig. 28—Shows Lever Locking Spring
Fig. 29—Showing enlarged Locking Lever

★DIAMOND EDGE "SAFETY PRESS BUTTON" POCKET KNIVES

(U. S. Patents 812,601 and 845,180)

Uncapped Ends; One Large Spear Blade and One Small Pen Blade

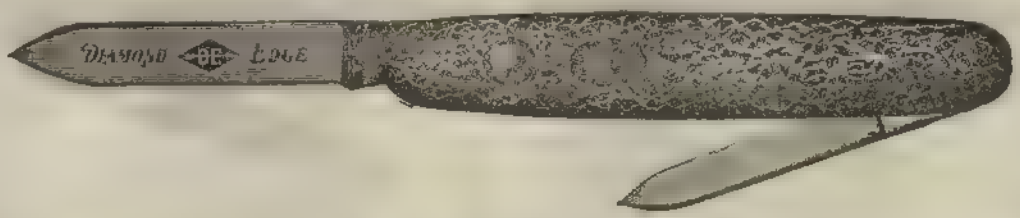
Length 3⅜ Inches, Brass Lining Full Crocus Finish and Etched Blades; German Silver Press Buttons and Safety Slides

Per Dozen

No. S1C—Cocobolo Pyralin Handle **$20.00**
No. S1X—Mottled Turquois Blue Pyralin Handle **20.00**

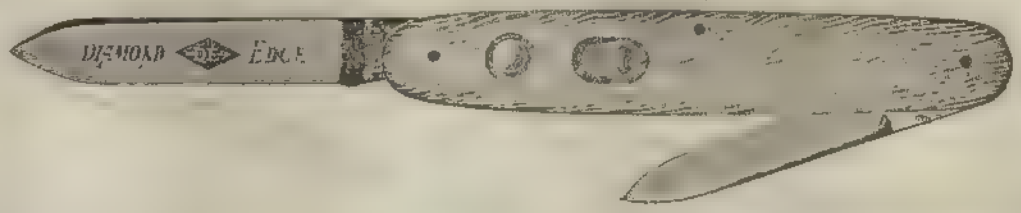
Per Dozen

No. S1B—Black Pyralin Handle **$19.20**
No. S1G—Green Pyralin Handle **20.00**



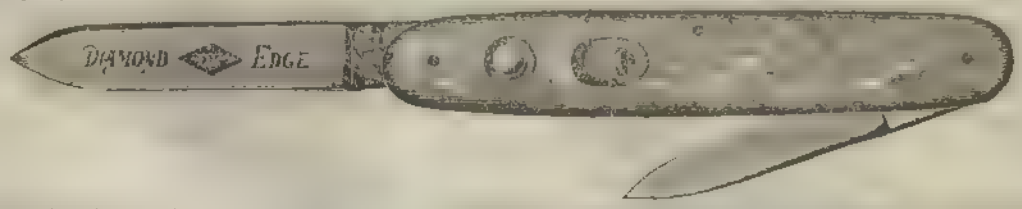
Per Dozen

No. S1ST—Stag Handle **$18.00**



Per Dozen

No. S1W—Grained Ivory Pyralin Handle **$20.00**



Per Dozen

No. S1T—Tortoise Shell Pyralin Handle **$20.00**

Per Dozen

No. S1D—Silver Pyralin Handle **$20.00**

Per Dozen

No. S1P—Mother of Pearl Handle **$46.00**

All Above, Half Dozen in a Box; Weight per Dozen 18 ozs.

*DIAMOND EDGE "SAFETY PRESS BUTTON" POCKET KNIVES

(U. S. Patents 812,601 and 845,130)

Uncapped Ends; One Large Spear Blade and One Small File Pen Blade

Length 3⅝ Inches; Brass Lining; Full Crocus Finish and Etched Blades; German Silver Press Buttons and Safety Slides

Per Dozen

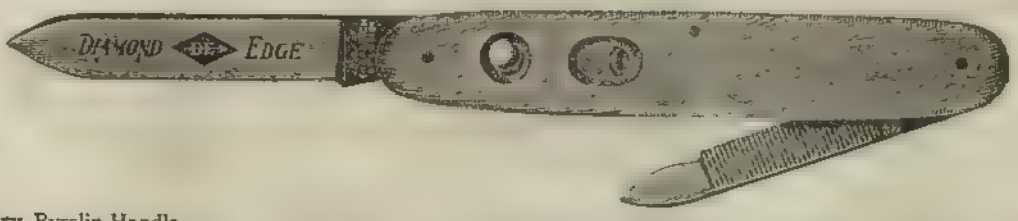
No. S3C—Cocobolo Pyralin Handle **$22.00**

Per Dozen

No. S3B—Black Pyralin Handle **$22.00**

Per Dozen

No. S3ST—Stag Handle **$22.00**



Per Dozen

No. S3W—Grained Ivory Pyralin Handle **$22.00**

Per Dozen

No. S3T—Tortoise Shell Pyralin Handle **$22.00**

Per Dozen

No. S3D—Silver Pyralin Handle **$22.00**

Per Dozen

No. S3P—Mother of Pearl Handle **$48.00**

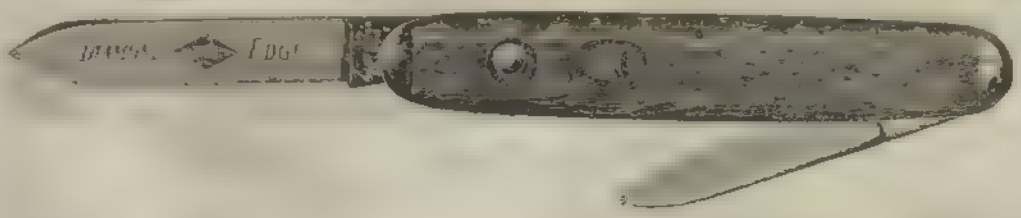
All Above, Half Dozen in a Box; Weight per Dozen 18 Ozs.

★ DIAMOND EDGE "SAFETY PRESS BUTTON" POCKET KNIVES

(U. S. Patents 812,601 and 845,130)

Capped Ends; One Large Spear Blade and One Small Pen Blade

Length 3⅝ inches; Brass Lining, Full Crocus Finish and Etched Blades; German Silver End Caps, Press Buttons and Safety Slides



Per Dozen

No. S2C—Cocobolo Pyralin Handle..... $22.00

No. S2X—Mottled Turquoise Blue Pyralin Handle..... 22.00

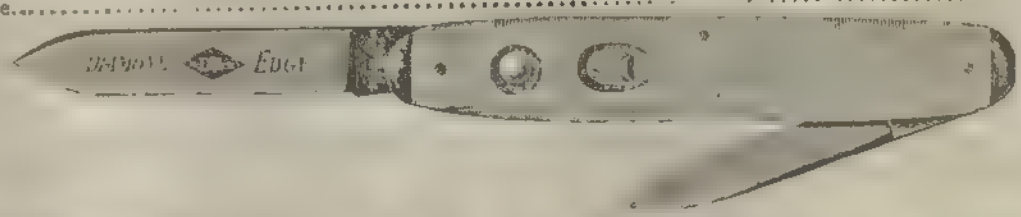
Per Dozen

No. S2B—Black Pyralin Handle..... $22.00

No. S2G—Green Pyralin Handle..... 22.00

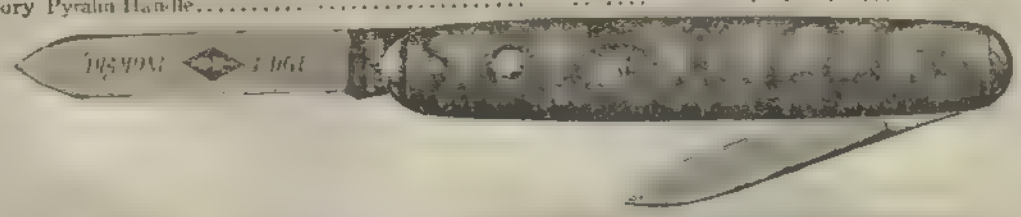
Per Dozen

No. S2ST—Stag Handle..... $21.60



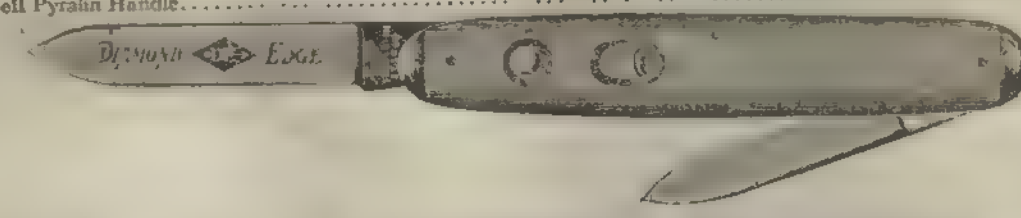
Per Dozen

No. S2W—Grained Ivory Pyralin Handle..... $22.00



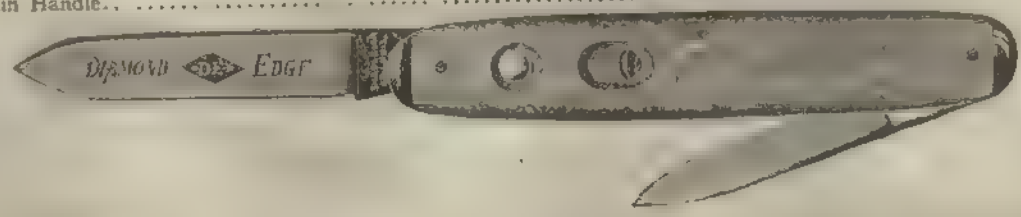
Per Dozen

No. S2T—Tortoise Shell Pyralin Handle..... $22.00



Per Dozen

No. S2D—Silver Pyralin Handle..... $22.00



Per Dozen

No. S2P—Mother of Pearl Handle..... $48.00

All above, Half Dozen in a Box; Weight per Dozen 18 ozs.

* DIAMOND EDGE "SAFETY PRESS BUTTON" POCKET KNIVES

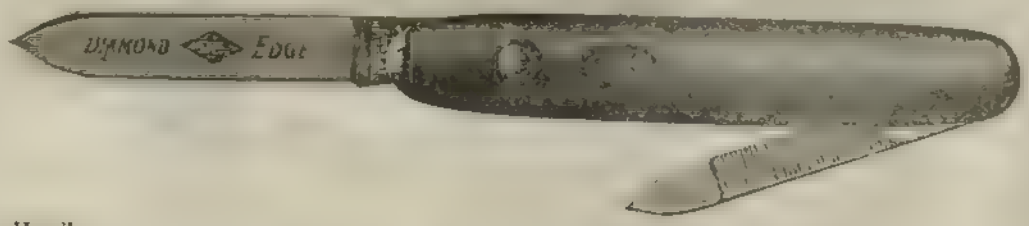
(U. S. Patents 812,601 and 845,130)

Capped Ends; One Large Spear Blade and One Small File Pen Blade

Length $3\frac{3}{8}$ inches; Brass Lining; Full Crocus Finish and Etched Blades, German Silver End Caps, Press Buttons and Safety Slides

No. S4C—Cocobolo Pyralin Handle ..... Per Dozen **$22.00**

Half Dozen in a Box, Weight per Dozen 18 ozs.



No. S4B—Black Pyralin Handle ..... Per Dozen **$22.00**

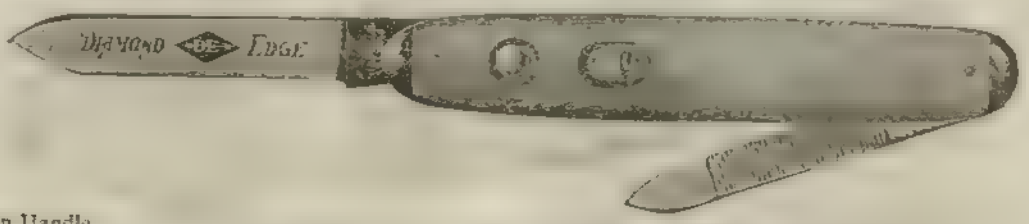
Half Dozen in a Box, Weight per Dozen 18 ozs.

No. S4ST—Stag Handle ..... Per Dozen **$22.00**

Half Dozen in a Box, Weight per Dozen 18 ozs.

No. S4W—Grained Ivory Pyralin Handle ..... Per Dozen **$22.00**

Half Dozen in a Box, Weight per Dozen 18 ozs.



No. S4D—Silver Pyralin Handle ..... Per Dozen **$22.00**

Half Dozen in a Box, Weight per Dozen 18 ozs.

No. S4P—Mother of Pearl Handle ..... Per Dozen **$50.00**

Half Dozen in a Box; Weight per Dozen 18 ozs.

DIAMOND EDGE "SAFETY PRESS BUTTON" POCKET KNIVES

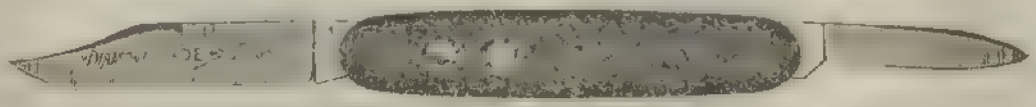
(U. S. Patents 812,001 and 845,130)

Length 3¾ inches; Brass Lining; Half Crocus Finish and Etched Blades; German Silver Press Buttons and Safety Slides

Uncapped; One Large Spear and One Small Pen Blade

	Per Dozen
No. S7D—Silver Pyralin Handle; Weight per Dozen 2½ lbs.	**$22.00**

Half Dozen in a Box



Uncapped; One Large Clip and One Small Pen Blade; Weight per Dozen 2½ lbs.

	Per Dozen
No. S7¾S—Patent Stag Handle	**$21.60**
No. S7¾T Tortoise Shell Pyralin Handle	22.00

Half Dozen in a Box

German Silver Caps; One Large Spear and One Small Pen Blade; Weight per Dozen 2½ lbs.

	Per Dozen
No. S6B—Black Pyralin Handle	**$25.00**
No. S6C—Cocobolo Pyralin Handle	**25.00**
No. S6D—Silver Pyralin Handle	**25.00**
No. S6S—Patent Stag Handle	**24.00**
No. S6P—Mother Pearl Handle	**62.00**

Half Dozen in a Box

German Silver Caps; One Large Clip and One Small Pen Blade; Weight per Dozen 2½ lbs.

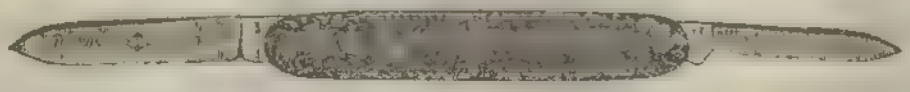
	Per Dozen
No. S6¾C—Cocobolo Pyralin Handle	**$24.00**
No. S6¾T—Tortoise Shell Pyralin Handle	**24.00**
No. S6¾W—Grained Ivory Pyralin Handle	**25.00**
No. S6¾S—Patent Stag Handle	**23.00**

Half Dozen in a Box

German Silver Caps; Weight per Dozen 2½ lbs.

One Large Spear and One Large Clip Blade.	Per Dozen	One Large Spey and One Large Clip Blade.	Per Dozen
No. S5D—Silver Pyralin Handle	**27 00**	**No. S5¾S Patent Stag Handle**	**$24.00**
No. S5S—Patent Stag Handle	**24 00**	**No. S5¾P Genuine Pearl Handle**	**66.00**

Half Dozen in a Box



Very Heavy Solid Sterling Silver Handles, Handsomely Embossed; Length 3¼ inches; German Silver Lining; Half Crocus Finish and Etched Blades; German Silver Press Buttons and Safety Slides.

Uncapped; One Large Spear and One Small Pen Blade; Weight per Dozen 1¼ lbs.

	Per Dozen
No. S11SS—Sterling Silver Handle	**$54.00**

Half Dozen in a Box

Very Heavy Solid Sterling Silver Handles, Handsomely Embossed; Length 3¾ inches; German Silver Lining; Half Crocus Finish and Etched Blades, German Silver Press Buttons and Safety Slides.

Uncapped; One Large Spear and One Small Pen Blade; Weight per Dozen 1¼ lbs.

	Per Dozen
No. S12SS—Sterling Silver Handle	**$54.00**

Half Dozen in a Box.

*DIAMOND EDGE "SAFETY PRESS BUTTON" POCKET KNIVES

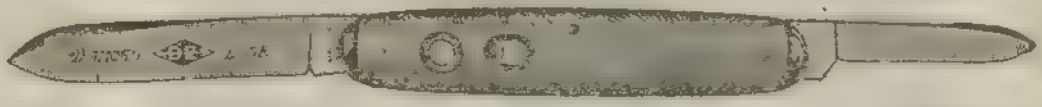
(U. S. Patents 812601 and 845130)

Length 3¾ inches; Brass Lining; Half Crocus Finish and Etched Blades; German Silver Press Buttons and Safety Slides

German Silver Caps; One Large Spear and One Small Pen Blade; Weight per Dozen 2½ lbs.

No. S10ST—Patent Stag Handle ..... Per Dozen $22.00

Half Dozen in a Box, Weight per Dozen 18 ozs.



German Silver Caps; One Large Spear and One Small Pen Blade; Weight per Dozen 2½ lbs.

No. S10D—Silver Pyralin Handle ..... Per Dozen $24.00

Half Dozen in a Box, Weight per Dozen 18 ozs.

German Silver Caps; One Large Spear and One Small Pen Blade; Weight per Dozen 2½ lbs.

No. S10J—Golden Pyralin Handle ..... Per Dozen $24.00

Half Dozen in a Box; Weight per Dozen 18 ozs.

No. S8½C—Cocobolo Pyralin Handle; Uncapped; One Large Clip and One Punch Blade, Weight per Dozen 2½ lbs. ..... Per Dozen $25.00

Half Dozen in a Box; Weight per Dozen 18 ozs.

No. S8ST—Patent Stag Handle; German Silver Capped; One Large Spear and One Punch Blade; Weight per Dozen 2½ lbs. ..... Per Dozen $25.00

Half Dozen in a Box; Weight per Dozen 18 ozs.

Office Knife—Uncapped Ends; One Large Spear Blade and One Small Eraser or Spey Blade, with the Words "Office Knife" Etched on Same

Length 3¾ inches, Brass Lining, Half Crocus Finish and Etched Blades, German Silver Press Buttons and Safety Slides

No. S1⅝W—Grained Ivory Pyralin Handle ..... Per Dozen $22

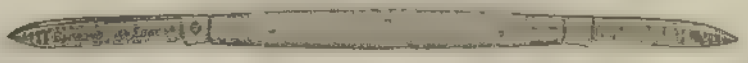
Half Dozen in a Box, Weight per Dozen 18 ozs.

POCKET KNIVES

EMPIRE

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

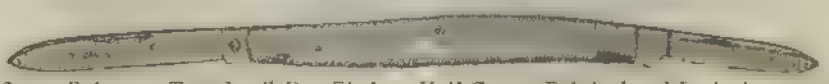
TWO BLADE PENS



Length 2⅛ inches; German Silver Bolsters; Two Small Pen Blades; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 6 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S270P—Pearl Handle	$18.00	No. 2E270P Pearl Handle	$18.00

Half Dozen in a Box



Length 2¾ inches; German Silver Bolsters; Two Small Pen Blades; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 7 ozs.

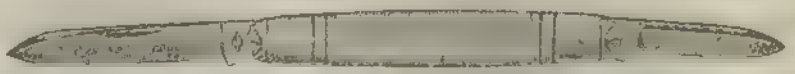
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S271P—Pearl Handle	$19.00	No. 2E271P—Pearl Handle	$18.00

Half Dozen in a Box

Length 2⅜ inches; German Silver Bolsters; Two Small Pen Blades; Half Crocus Polished; Brass Lining; Weight per Dozen 7 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S255P—Pearl Handle	$14.50	No. 2E255P—Pearl Handle	$19.20

Half Dozen in a Box



Length 2⅝ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 10 ozs

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S224P—Pearl Handle	$17.00	No. 2E224P—Pearl Handle	$17.00

Half Dozen in a Box

Length 2⅝ inches; German Silver Bolsters; Two Small Pen Blades Glazed Iron Lining; Weight per Dozen 8 ozs.

*DIAMOND EDGE	Per Dozen
No. 2S178P—Pearl Handle	$17.00

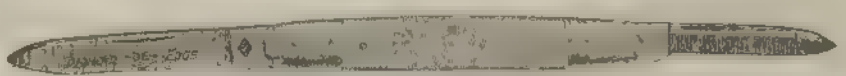
Half Dozen in a Box

*DIAMOND EDGE

Length 2¾ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining; Weight per Dozen 9 ozs.

	Per Dozen
No. 2S276P—Pearl Handle	$15.00

Half Dozen in a Box



*DIAMOND EDGE

Length 2¾ inches; German Silver Bolsters; One Large Spear and One Small File Blade, Half Crocus Polished and Etched; Brass Lining, Weight per Dozen 10 ozs.

	Per Dozen
No. 2S287P—Pearl Handle	$12.00

Half Dozen in a Box

Length 2⅞ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 10 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S273P—Pearl Handle	$21.60	No. 2E273P—Pearl Handle	$21.60

Half Dozen in a Box

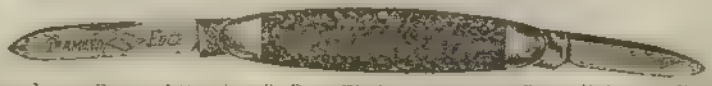
Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

EMPIRE

TWO BLADE PENS



Length 2¼ inches; Oval Pattern, One Large Pen and One Small Pen Blade, German Silver Bolsters; Brass Lining; Half Polished Blades; Weight per Dozen 9 ozs.

*DIAMOND EDGE

No. 2S461ST—Patent Stag Handle ..... Per Dozen **$12.00**

Length 2¼ inches; Bent or Serpentine Pattern; One Large Pen Blade and One Long File on Back; German Silver Bolsters; Brass Lining; Glazed and Etched Blade; Weight per Dozen 9 ozs.

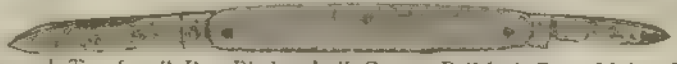
*DIAMOND EDGE

No. 2S458ST—Patent Stag Handle ..... Per Dozen **$13 00**

Length 2½ inches; Sleeveboard Pattern; One Large Pen Blade and One Long File on Back, German Silver Bolsters, Brass Lining; Half Polished and Etched Blade; Weight per Dozen 11 ozs.

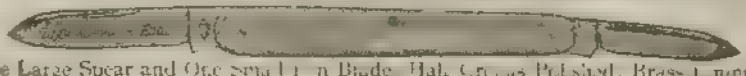
*DIAMOND EDGE

No. 2S460ST—Patent Stag Handle ..... Per Dozen **$13 50**



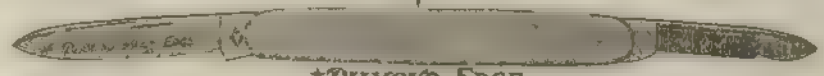
Length 2¾ inches, Uncapped, Two Small Pen Blades; Full Crocus Polished, Brass Lining; Weight per Dozen 8 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S254P—Pearl Handle	**$13.50**	**No. 2E254P Pearl Handle**	**$18 00**



Length 2½ inches; Uncapped; One Large Spear and One Small Pen Blade, Half Crocus Polished, Brass Lining; Weight per Dozen 7 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S272P—Pearl Handle	**$21 00**	**No. 2E272P Pearl Handle**	**$21 00**



*DIAMOND EDGE

Length 2¾ inches, Uncapped; One Large Spear and One File Blade; Full Polished and Etched, Brass Lining; Weight per Dozen 8 ozs.

No. 2S289P—Pearl Handle ..... Per Dozen **$21.00**

Length 2¾ inches; Uncapped, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 8 ozs.

*DIAMOND EDGE

No. 2S320P—Pearl Handle ..... Per Dozen **$28.00**

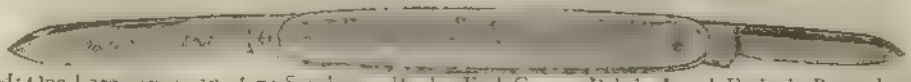
*DIAMOND EDGE

Length 2⅞ inches, Uncapped, One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining, Weight per Dozen 9 ozs

No. 2S286P Pearl Handle ..... Per Dozen **$19.20**

Length 3 inches; Uncapped, One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining, Weight per Dozen 10 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S310P Pearl Handle	**$28 00**	**No. 2E310P Pearl Handle**	**$28 00**



Length 3 inches, Uncapped; One Large Spear and One Small Pen Blade, Full Crocus Polished and Etched, Brass Lining; Weight per Dozen 9 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S334P—Pearl Handle	**$32 00**	**No. 2E334P Pearl Handle**	**$24 00**

All Above, Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

EMPIRE

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

TWO BLADE PENS

Length 2⅞ inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Glazed Brass Lining, Weight per Dozen 9 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S180ST—Patent Stag Handle	$11.70	No. 2E180ST—Patent Stag Handle	$11.70

Half Dozen in a Box

Length 3 inches, Unwrapped; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched German Silver Lining, German Silver Shield, Weight per Dozen 10 ozs.

*DIAMOND EDGE

	Per Dozen
No. 2S81P—Pearl Handle	$28 00

Half Dozen in a Box

Length 3 inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield; Weight per Dozen 10 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S258E—Ebony Handle	$13 00	No. 2E258ST—Patent Stag Handle	$13 20
No. 2S258ST—Patent Stag Handle	13 00	No. 2E258T—Tortoise Shell Handle	13 50
No. 2S258T—Tortoise Shell Handle	14 00	No. 2E258P—Pearl Handle	21 00
No. 2S258P—Pearl Handle	21 00		

Half Dozen in a Box

*DIAMOND EDGE

Length 3 inches, German Silver Bolsters, One Large Spear and One Pen Blade, Half Crocus Polished and Etched Brass Lining, Weight per Dozen 11 ozs.

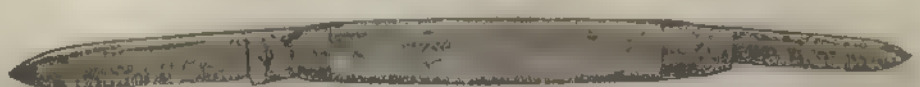
	Per Dozen
No. 2S288P—Pearl Handle	$27 00

Half Dozen in a Box

Length 3 inches, German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched Brass Lining, Weight per Dozen 12 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S275P—Pearl Handle	$22 00	No. 2E275—Pearl Handle	$22 00

Half Dozen in a Box



Length 3 inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining German Silver Shield; Weight per Dozen 10 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S81E—Ebony Handle	$13 00	No. 2E81E—Ebony Handle	$13 00
No. 2S81ST—Patent Stag Handle	13 00	No. 2E81ST—Patent Stag Handle	13 00
No. 2S81P—Pearl Handle	24 00	No. 2E81P—Pearl Handle	24.00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

EMPIRE

TWO BLADE PENS

Length 3 inches, German Silver Tipped; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield; Weight per Dozen 9 ozs.

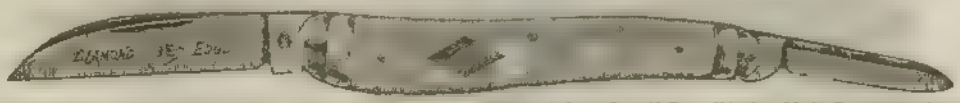
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S257E —Ebony Handle	$13 00	No. 2E257E —Ebony Handle	$13.00
No. 2S257ST—Patent Stag Handle	13 20	No. 2E257ST—Patent Stag Handle	13 20

Half Dozen in a Box

Length 3 inches, Polished Steel Rat Tail Bolsters, One Large Wharncliffe and One Small Pen Blade; Half Crocus Polished and Etched, Brass Linings German Silver Shield; Weight per Dozen 10 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S242ST—Patent Stag Handle	$13 50	No. 2E242ST—Patent Stag Handle	$13 50
No. 2S242P —Pearl Handle	25 00	No. 2E242P —Pearl Handle	25 00

Half Dozen in a Box



Length 3¼ inches; Polished Steel Rat Tail Bolsters; One Large Wharncliffe and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 15 ozs.

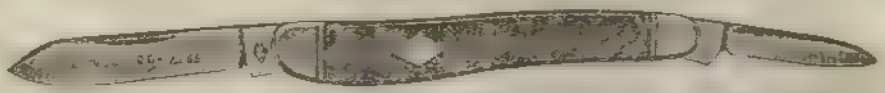
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S139GST—Genuine Stag Handle	$18 00	No. 2E139GST—Genuine Stag Handle	$18 00
No. 2S139P —Pearl Handle	30 00	No. 2E139P —Pearl Handle	30 00

Half Dozen in a Box

Length 3 inches, German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 12 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S32ST Patent Stag Handle	$13 50	No. 2E32ST Patent Stag Handle	$13 50
No. 2S32P —Pearl Handle	24 00	No. 2E32P Pearl Handle	24.00

Half Dozen in a Box



Length 3 inches; German Silver Ribbed Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 12 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S241ST Patent Stag Handle	$14 00	No. 2E241ST -Patent Stag Handle	$14 00
No. 2S241GST Genuine Stag Handle	16 00	No. 2E241GST -Genuine Stag Handle	12 00
No. 2S241T —Tortoise Shell Handle	14 50	No. 2E241T —Tortoise Shell Handle	14.50
No. 2S241P Pearl Handle	26 00	No. 2E241P —Pearl Handle	26.00

Half Dozen in a Box

Length 3¼ inches, German Silver Capped; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 12 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S106ST Patent Stag Handle	$14 50	No. 2E106ST Patent Stag Handle	$14 50
No. 2S106GST -Genuine Stag Handle	18 00	No. 2E106GST Genuine Stag Handle	18 00
No. 2S106P Pearl Handle	29 00	No. 2E106P Pearl Handle	29 00

Half Dozen in a Box

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EMPIRE

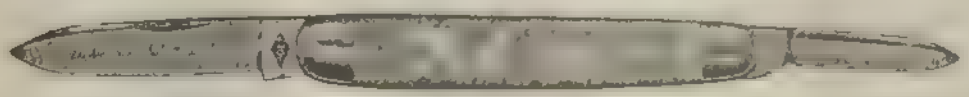
TWO BLADE PENS

*DIAMOND EDGE

Length 3¼ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 14 ozs.

	Per Dozen
No. 2S277P –Pearl Handle	$19 00

Half Dozen in a Box



*DIAMOND EDGE

Length 3¼ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.

	Per Dozen
No. 2S299P Pearl Handle	$20 00

Half Dozen in a Box

Length 3 inches. Polished Steel Rat Tail Bolsters, One Large Sheep Foot and One Small Pen Blade, Glazed and Etched, Brass Lining; No Shield. Weight per Dozen 10 ozs.

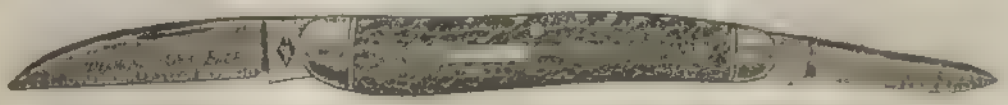
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S66½ST Patent Stag Handle	$11 00	No. 2E66½ST Patent Stag Handle	$11 00
No. 2S66½GST—Genuine Stag Handle	14 00	No. 2E66½GST—Genuine Stag Handle	14 00
No. 2S66½P —Pearl Handle	22 00	No. 2E66½P —Pearl Handle	22 00
No. 2S66½G —German Silver Handle	8 00	No. 2E66½G —German Silver Handle	6.40

Half Dozen in a Box | Half Dozen in a Box

Length 3¼ inches; Polished Steel Rat Tail Bolsters, One Large Sheep Foot and One Small Pen Blade; Glazed and Etched, Brass Lining; No Shield; Weight per Dozen 11 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S33½ST Patent Stag Handle	$12 00	No. 2E33½ST —Patent Stag Handle	$12 00
No. 2S33½GST—Genuine Stag Handle	14.00	No. 2E33½GST Genuine Stag Handle	14 00
No. 2S33½P —Pearl Handle	25.00	No. 2E33½P Pearl Handle	25 00

Half Dozen in a Box | Half Dozen in a Box

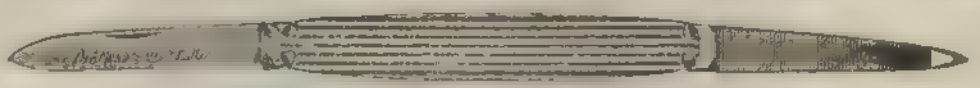


Length 3⅜ inches; German Silver Ribbed Bolsters; One Large Wharncliffe and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.

*DIAMOND EDGE

	Per Dozen
No. 2S285ST—Patent Stag Handle	$13 00
No. 2S285P – Pearl Handle	$24 00

Half Dozen in a Box | Half Dozen in a Box



*DIAMOND EDGE

Pyralin Handles; Length 3 inches. Pearl or Stamped Handles, German Silver Lining, One Large Pen Blade and One Flexible File; Half Polished and Etched; Weight per Dozen 10 ozs.

	Per Dozen
No. 2S399YFN—Black and White Striped Handle	$14.00
No. 2S399YFB—Black and Gray Striped Handle	14.00
No. 2S399DFF—Gray Pearl Handle	14.00
No. 2S399CCF—Brown and White Mottled Handle	14.00

Same as above except with One Large Pen and One Small Pen Blade.

	Per Dozen
No. 2S399BC Silver Clouded Prussian Blue Handle	$13 00
No. 2S399TB Turquois Blue Handle	13.00
No. 2S399J —Golden Pearl Handle	13.00
No. 2S399RSC—Red and Black Striped Handle	13.00

Half Dozen in a Box

*DIAMOND EDGE

Length 3 inches, no Bolsters or Tips, Steel Lining, One Large Pen and One Small Pen Blade. Plain Glazed Blades, Weight per Dozen 20 ozs.

	Per Dozen
No. 2S02N —German Silver Handle	$7.20
No. 2S02FB—Black Fiberloid Handle	7.20
No. 2S02FG—Gray Fiberloid Handle	4.00
No. 2S02ST—Patent Stag Handle	7.20

Half Dozen in a Box

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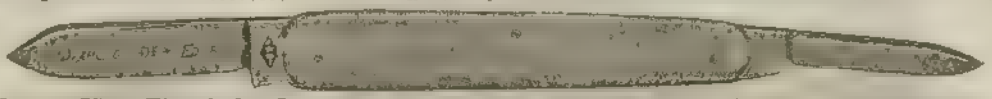
EMPIRE

TWO BLADE PENS

Length 3⅜ inches; Uncapped, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; No Shield; Weight per Dozen 15 ozs.

*DIAMOND EDGE	Per Dozen
No. 2S98ST —Patent Stag Handle	$11 00
No. 2S98GST—Genuine Stag Handle	15 00
No. 2S98W —White Bone Handle	13 00
No. 2S98P —Pearl Handle	28 00
No. 2S98D —Gray Pearl Pyralin Handle	13 50

*EMPIRE	Per Dozen
No. 2E98ST Patent Stag Handle	$11 00
No. 2E98GST -Genuine Stag Handle	15 00
No. 2E98W —White Bone Handle	8.00
No. 2E98P —Pearl Handle	28.00



Length 3⅜ inches; German Silver Tipped; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; No Shield; Weight per Dozen 16 ozs.

*DIAMOND EDGE	Per Dozen
No. 2S193ST —Patent Stag Handle	$13 50
No. 2S193GST —Genuine Stag Handle	16 00
No. 2S193W —White Bone Handle	15.00
No. 2S193P Pearl Handle	30 00

*EMPIRE	Per Dozen
No. 2E193ST —Patent Stag Handle	$13.50
No. 2E193GST —Genuine Stag Handle	16 00
No. 2E193P Pearl Handle	30.00

Length 3½ inches; German Silver Ribbed Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining German Silver Shield; Weight per Dozen 17 ozs.

*DIAMOND EDGE	Per Dozen
No. 2S103ST—Patent Stag Handle	$15 00

*EMPIRE	Per Dozen
No. 2E103ST—Patent Stag Handle	$12.00

*DIAMOND EDGE

Length 3¼ inches; Oval Pattern; Scored Biased German Silver Bolsters, Brass Lining; One Large Pen and One Small Pen Blade; Half Crocus Polished and Etched; Weight per Dozen 14 ozs.

	Per Dozen
No. 2S342J —Golden Pearl Pyralin Handle	$17.00
No. 2S342RO—Red Onyx Pyralin Handle	17.00

Length 3½ inches; German Silver Tipped, One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining, German Silver Shield; Weight per Dozen 16 ozs

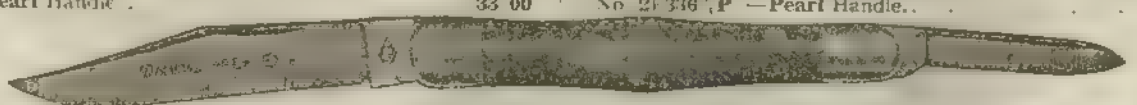
*DIAMOND EDGE	Per Dozen
No. 2S209ST—Patent Stag Handle	15 50
No. 2S209P —Pearl Handle	36 00

*EMPIRE	Per Dozen
No. 2E209ST—Patent Stag Handle	13 00
No. 2E209P —Pearl Handle	36.00

Length 3½ inches; German Silver Bolsters; One Large Clip and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 19 ozs.

*DIAMOND EDGE	Per Dozen
No. 2S336⅝ST—Patent Stag Handle	$18 00
No. 2S336⅝P —Pearl Handle	33 00

*EMPIRE	Per Dozen
No. 2E336⅝ST -Patent Stag Handle	$14 00
No. 2E336⅝P —Pearl Handle	27.00



Length 3⅝ inches; German Silver Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 19 ozs.

*DIAMOND EDGE	Per Dozen
No. 2S69⅝B Buffalo Horn Handle	$18 00
No. 2S69⅝ST —Patent Stag Handle	17 00
No. 2S69⅝GST Genuine Stag Handle	19 20
No. 2S69⅝P —Pearl Handle	35 00

*EMPIRE	Per Dozen
No. 2E69⅝B —Buffalo Horn Handle	$15 00
No. 2E69⅝ST Patent Stag Handle	17 00
No. 2E69⅝GST—Genuine Stag Handle	19 20
No. 2E69⅝P -Pearl Handle	35.00

All Above, Half Dozen in a Box

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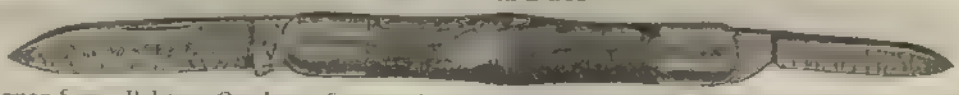
EMPIRE

TWO BLADE PENS

Length 3⅜ inches, German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 15 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S203 —Cocobolo Handle	$13.50		
No. 2S203ST—Patent Stag Handle	18.50	No. 2E203ST Patent Stag Handle	$13 50

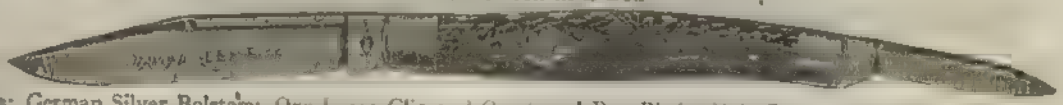
Half Dozen in a Box



Length 3⅛ inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 14 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S202 Cocobolo Handle	$13 50		
No. 2S202E Ebony Handle	13 50		
No. 2S202ST—Patent Stag Handle	13.50	No. 2E202ST—Patent Stag Handle	$13.50

Half Dozen in a Box



Length 3¼ inches; German Silver Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S253½B —Buffalo Horn Handle	$16 00	No. 2F253½B Buffalo Horn Handle	$16 00
No. 2S253½ST—Patent Stag Handle	15 50	No. 2E253½ST Patent Stag Handle	15 50
No. 2S253½P —Pearl Handle	29 00	No. 2E253½P Pearl Handle	29.00

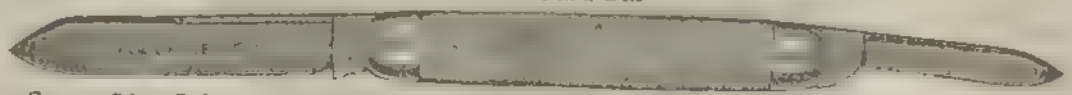
Half Dozen in a Box

*DIAMOND EDGE

Length 3⅜ inches, German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; No Shield weight per Dozen 19 ozs.

	Per Dozen		Per Dozen
No. 2S305ST—Patent Stag Handle	$18.20	No. 2S305P—Pearl Handle	$28.00

Half Dozen in a Box



Length 3⅛ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 19 ozs.

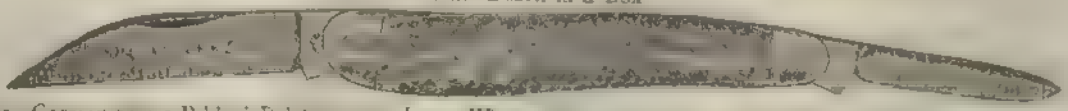
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S42ST—Patent Stag Handle	$15 00	No. 2E42ST Patent Stag Handle	$15 00
No. 2S42P Pearl Handle	27.00	No. 2E42P Pearl Handle	27 00

Half Dozen in a Box

Length 3½ inches; German Silver Bolsters; One Large Clip and One Large Spear Blade Half Crocus Polished and Etched, Brass Lining, German Silver Shield; Weight per Dozen 20 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S43½ST—Patent Stag Handle	$16 00	No. 2E43½ST—Patent Stag Handle	$16.00

Half Dozen in a Box



Length 3⅝ inches, German Silver Rolled Bolsters; One Large Wharncliffe and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield; Weight per Dozen 19 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S48GST—Genuine Stag Handle	$18 00	No. 2E48GST Genuine Stag Handle	$18 00

Half Dozen in a Box

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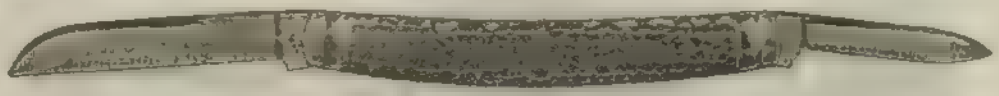
EMPIRE

TWO BLADE PENS

Congress Pattern; Length 3½ inches; Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade, Half Crocus Polished and Etched; Iron Lining; Weight per Dozen 14 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S10½ST—Patent Stag Handle	$13.00	No. 2E10½ST Patent Stag Handle	$13.00

Half Dozen in a Box



Congress Pattern, Length 3¾ inches, Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade, Glazed and Etched; Brass Lining; Weight per Dozen 15 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S221½ST -Patent Stag Handle	$13.00	No. 2E221½ST Patent Stag Handle	$13.00

Half Dozen in a Box

Congress Pattern Length 3⅜ inches, Uncapped; One Large Congress and One Small Pen Blade; Full Crocus Polished and Etched; Brass Lining; Weight per Dozen 13 ozs.

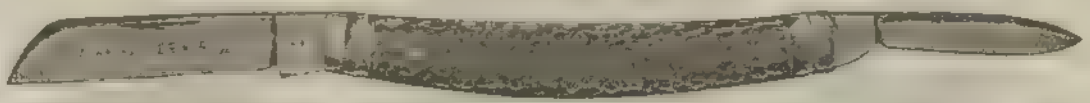
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S335½P—Pearl Handle	$33.00	No. 2E335½P—Pearl Handle	$33.00

Half Dozen in a Box

Congress Pattern, Length 3¾ inches; Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 21 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S222½ST Patent Stag Handle	$14.50	No. 2E222½ST -Patent Stag Handle	$14.50

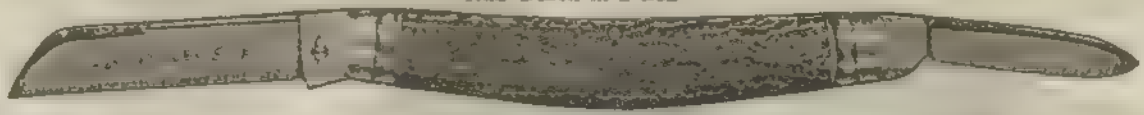
Half Dozen in a Box



Congress Pattern, Length 3¾ inches; Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 22 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S75½ST Patent Stag Handle	$15.50	No. 2E75½ST Patent Stag Handle	$15.50

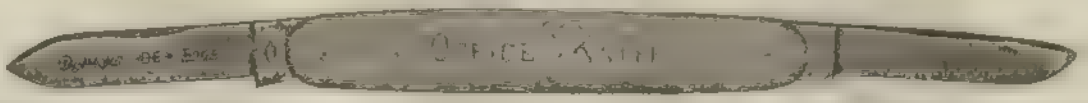
Half Dozen in a Box



Congress Pattern; Length 4 inches; Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 1⅝ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S223½ST Patent Stag Handle	$15.70	No. 2E223½ST—Patent Stag Handle	$15.70

Half Dozen in a Box



Office Knife, Length 3¾ inches; Uncapped, One Large Spear and One Large Eraser Blade, Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 18 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S227W—Ivory Finish Celluloid Handle	$15.70	No. 2E227W Ivory Finish Celluloid Handle	$15.70

Half Dozen in a Box

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POCKET KNIVES

*ENTERPRISE CUTLERY CO., GERMANY

Imported; Made Up and Sold at a Price; Will Give Good Service for Purposes Intended. Well Made and Finished.
NOT GUARANTEED

TWO BLADE PENS

Senator Pattern; Length 2¼ inches; German Silver Ribbed Bolsters; One Large Spear and One Small Pen Blade Glazed; German Silver Lining; No Shield; Weight per Dozen 6 ozs.

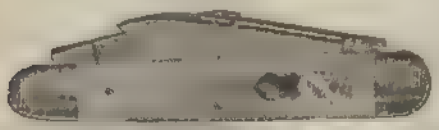
Per Dozen
No. F230P—Pearl Handle..... $4 00

Length 2⅜ inches; German Silver Ribbed Bolsters; One Large Spear and One Small Pen Blade, Full Polished; German Silver Lining; No Shield; Weight per Dozen 4 ozs.

Per Dozen
No. F235P—Pearl Handle..... $3 20

Sleeve Board Pattern; Length 2¾ inches; German Silver Flush Bolsters; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; German Silver Shield; Weight per Dozen 8 ozs.

Per Dozen
No. F246P—Pearl Handle..... $9 50



Sleeve Board Pattern; Length 3 inches; German Silver Flush Bolsters; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; German Silver Shield; Weight per Dozen 10 ozs.

Per Dozen
No. F271P—Pearl Handle..... $9 00

Senator Pattern; Length 2⅛ inches; German Silver Ribbed Bolsters; One Large Spear and One Small Pen Blade, Glazed; German Silver Lining; No Shield; Weight per Dozen 6 ozs.

Per Dozen
No. F240P—Pearl Handle..... $4 00

Congress Pattern; Length 2½ inches; Polished Steel Bolsters; One Large Congress and One Small Pen Blade, Full Polished; Iron Lining; No Shield; Weight per Dozen 6 ozs.

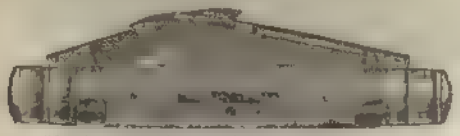
Per Dozen
No. F275P—Pearl Handle..... $4 00

Congress Pattern; Length 2⅞ inches; Polished Steel Knurled Bolsters; One Large Congress and One Small Pen Blade, Full Polished; Iron Lining; No Shield; Weight per Dozen 8 ozs.

Per Dozen
No. F274P—Pearl Handle..... $9 00

Wharncliffe Pattern; Length 2⅞ inches; German Silver Double Tail Bolsters; One Large Congress and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 8 ozs.

Per Dozen
No. F247P—Pearl Handle..... $9 00



Length 3½ inches; German Silver Double Rat Tail Bolsters; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; German Silver Shield; Weight per Dozen 2 ozs.

Per Dozen
No. F263P—Pearl Handle..... $9 50

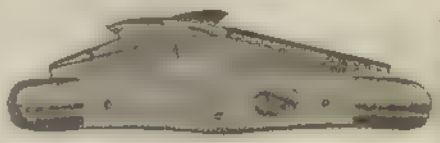
All Above, Half Dozen in a Box

POCKET KNIVES

*ENTERPRISE CUTLERY CO., GERMANY

Imported; Made Up and Sold at a Price; Will Give Good Service for Purposes Intended. Well Made and Finished.
NOT GUARANTEED

THREE BLADE PENS



Length 3 inches; German Silver Flush Bolsters; One Large Spear, One Small Pen and One File Blade; Full Polished Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.

Per Dozen
No. F301P—Pearl Handle..... $9 00
Half Dozen in a Box

JOHN RUSSELL & CO., GREEN RIVER WORKS

John Russells Barlow; Length 3⅜ inches; **Brown Bone Handle;** Polished Steel Bolsters; Iron Lining; Glazed Blades; Weight per Dozen 2⅛ lbs.

Per Dozen
No. J62—Large Spear and Small Pen Blade..... $5 20
No. J66—Large Clip and Small Pen Blade..... 5 20
No. J2603—Large Speying and Small Pen Blade..... 5 20
No. J68—Large Razor and Small Pen Blade..... 5.20
One Dozen in a Box

John Russells Barlow; Length 3⅜ inches; **Brown Bone Handle;** Polished Steel Bolsters; Iron Lining; Glazed Blades; Weight per Dozen 1⅝ lbs.

Per Dozen
No. J60—Large Spear Blade..... $3 30
No. J65—Large Clip Blade..... 3.30
One Dozen in a Box

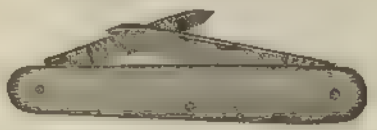
John Russells Barlow; Length 5 inches; **Brown Bone Handle;** Polished Steel Bolsters; Iron Lining; Glazed Blades; Weight per Dozen 3 ½ lbs.

Per Dozen
No. J601—Regular Opener; Large Spear Blade..... $5 50
No. J6600—Easy Opener; Large Clip Blade..... 6 00
Half Dozen in a Box

POCKET KNIVES

I*XL GEORGE WOSTENHOLM & SON, SHEFFIELD, ENGLAND

TWO BLADE PENS



Sleeve Board Pattern; Length 3⅛ inches; Uncapped; One Large Spear and One Small File Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 8 ozs.

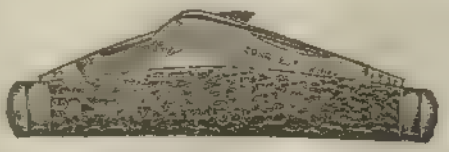
	Per Dozen
No. B2092—Pearl Handle	**$17.50**

Half Dozen in a Box

Congress Pattern; Length 2⅞ inches; Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade, Glazed; Brass Lining; No Shield; Weight per Dozen 8 ozs.

	Per Dozen
No. B2152—Patent Stag Handle	**$12 00**

Half Dozen in a Box



Congress Pattern; Length 3⅛ inches; Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade, Glazed; Brass Lining; No Shield. Weight per Dozen 10 ozs.

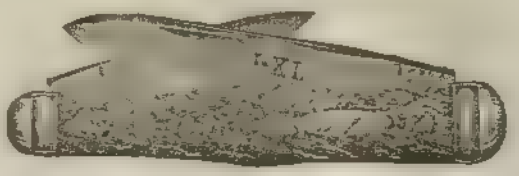
	Per Dozen
No. B2153—Patent Stag Handle	**$12.70**

Half Dozen in a Box

Sleeve Board Pattern; Length 3¼ inches; Uncapped; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 12 ozs.

	Per Dozen
No. B2094—Pearl Handle	**$28 50**

Half Dozen in a Box



Balloon Pattern, Length 3½ inches; Polished Steel Rat Tail Bolsters; One Large Spear and One Small Pen Blade, Glazed; Brass Lining; German Silver Shield; Weight per Dozen 20 ozs.

	Per Dozen
No. B2240—Patent Stag Handle	**$19 00**

Half Dozen in a Box

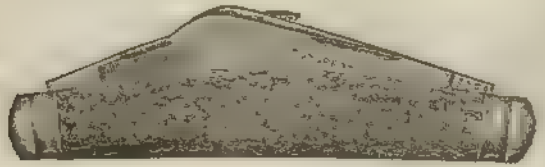
Sleeve Board Pattern; Length 3¼ inches; Uncapped; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 14 ozs.

	Per Dozen
No. B2017—Buffalo Horn Handle	**$13 60**
No. B2018—Ivory Handle	**13 60**
No. B2060—Genuine Stag Handle	**13 60**
No. B2044—Pearl Handle	**30 00**

Sleeve Board Pattern; Length 3¾ inches, German Silver Tipped; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 16 oz.

	Per Dozen
No. B2064—Genuine Stag Handle	**$14 00**
No. B2068 Pearl Handle	**31 00**

Half Dozen in a Box



Congress Pattern; Length 3¼ inches; Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade, Glazed; Brass Lining; No Shield; Weight per Dozen 18 ozs.

	Per Dozen
No. B2155—Patent Stag Handle	**$17.00**

Congress Pattern Length 4 inches; Polished Steel Rat Tail Bolsters One Large Congress and One Small Pen Blade, Glazed; Brass Lining; No Shield. Weight per Dozen 1½ lbs.

	Per Dozen
No. B2156—Patent Stag Handle	**$17.00**

Half Dozen in a Box

POCKET KNIVES

I*X L GEORGE WOSTENHOLM & SON, SHEFFIELD, ENGLAND

THREE BLADE PENS

Anglo-Saxon Pattern; Length 3 inches; German Silver Flush Bolsters; One Large Spear, One Small Pen and One File Blade; Full Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.
Per Dozen
No. B13401—Pearl Handle..... $40.00
Half Dozen in a Box

Angle Saxon Pattern, Length 3 inches; German Silver Flush Bolsters, One Large Spear, One Small Pen and One File Blade; Full Polished and Etched; Brass Lining, German Silver Shield. Weight per Dozen 18 ozs.
Per Dozen
No. B12317—Pearl Handle..... $44 00
Half Dozen in a Box

Sleeve Board Pattern; Length 3¾ inches; German Silver Tipped, One Large Spear and Two Small Pen Blades; Full Polished; Brass Lining; No Shield. Weight per Dozen 18 ozs.
Per Dozen
No. B2065 -Patent Stag Handle.....$23 00
Half Dozen in a Box

Sleeve Board Pattern; Length 3¾ inches; Uncapped; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 18 ozs.
Per Dozen
No. B2061 Patent Stag Handle..... $18 00
Half Dozen in a Box

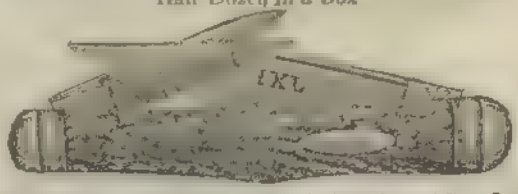
Sleeve Board Pattern; Length 3⅝ inches; Uncapped; One Large Spear and Two Small Pen Blades; Full Polished; Brass Lining; No Shield. Weight per Dozen 18 ozs.
Per Dozen
No. B2045—Pearl Handle.....$33 00
Half Dozen in a Box

Lobster Pattern; Length 3½ inches; Uncapped; One Large Spear One Small Pen and One File Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 12 ozs
Per Dozen
No. B2136—Pearl Handle $45.00
Half Dozen in a Box

Anglo-Saxon Pattern; Length 3⅝ inches; German Silver Scored Bolsters, One Large Spear, One Small Pen and One File Blade; Full Polished; Brass Lining; German Silver Shield; Weight per Dozen 12 ozs.
Per Dozen
No. B17024 -Patent Stag Handle $27 00
Half Dozen in a Box

Cattle Knife; Length 3¾ inches; German Silver Scored Bolsters, One Large Spear, One Large and One Small Pen Blade, Glazed Brass Lining; German Silver Shield; Weight per Dozen 2 lbs.
Per Dozen
No. B2177—Patent Stag Handle $30 00
Half Dozen in a Box

Balloon Pattern; Length 3¾ inches; Polished Steel Rat Tail Bolsters; One Large Spear, One Small Pen and One File Blade, Glazed, Brass Lining; German Silver Shield; Weight per Dozen 1½ lbs.
Per Dozen
No. B17020—Patent Stag Handle..... $26 00
Half Dozen in a Box



Balloon Pattern; Length 3¾ inches; Polished Steel Rat Tail Bolsters; One Large Spear, One Small Pen and One File Blade, Glazed, Brass Lining; German Silver Shield; Weight per Dozen 1½ lbs.
Per Dozen
No. B17021—Patent Stag Handle..... $24 00
Half Dozen in a Box

FOUR BLADE PENS

Congress Pattern; Length 2¾ inches; Polished Steel Bolsters, One Large Spear, One Large Pen, One Small Pen and One File Blade; Full Polished; Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.
Per Dozen
No. B2159- Patent Stag Handle.....$23.00
Half Dozen in a Box

Congress Pattern; Length 2¾ inches, Uncapped; One Small Cutter, Two Small Pens and One File Blade; Full Polished; Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.
Per Dozen
No. B6473 -Pearl Handle..... $40 00
Half Dozen in a Box

Sheaf Pattern; Length 3 inches; Uncapped; One Large Spear, One Small Pen and One File Blade; Brass Lining; Metal Shield; Weight per Dozen 16 ozs.
Per Dozen
No. B16042 Pearl Handle $50 00
Half Dozen in a Box

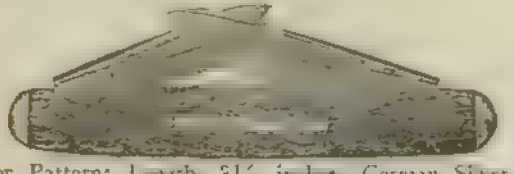
POCKET KNIVES

I XL GEORGE WOSTENHOLM AND SON, SHEFFIELD, ENGLAND

FOUR BLADE PENS

Congress Pattern; Length 3¾ inches; Polished Steel Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade, Glazed; Brass Lining; No Shield; Wt. per Dozen 20 ozs. Per Dozen
No. B2160—Patent Stag Handle **$24.00**
Half Dozen in a Box

Sleeve Board Pattern; Length 3⅜ inches; German Silver Tipped; One Large Spear, Two Small Pens and One File Blade; Full Polished; Brass Lining; No Shield; Wt. per Dozen 20 ozs. Per Dozen
No. B2066—Patent Stag Handle **$26 50**
Half Dozen in a Box

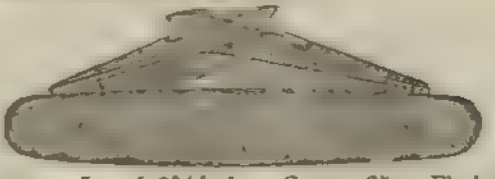


Senator Pattern; Length 3¼ inches; German Silver Tipped; One Large Spear, Two Small Pens and One File Blade; Full Polished; Brass Lining, Milled; German Silver Shield; Weight per Dozen 18 ozs. Per Dozen
No. B14270—Patent Stag Handle **$32 00**
Half Dozen in a Box

Congress Pattern; Length 3⅝ inches; Polished Steel Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade, Glazed; Brass Lining; No Shield; Wt. per Dozen 1⅝ lbs. Per Dozen
No. B2161—Patent Stag Handle **$25 00**
Half Dozen in a Box

Congress Pattern; Length 3¾ inches; Polished Steel Rat Tail Bolsters; One Large Congress, One Tobacco and Two Small Pen Blades Glazed; Brass Lining; No Shield; Wt. per Dozen 2 lbs. Per Dozen
No. B2182—Patent Stag Handle **$26 00**
Half Dozen in a Box

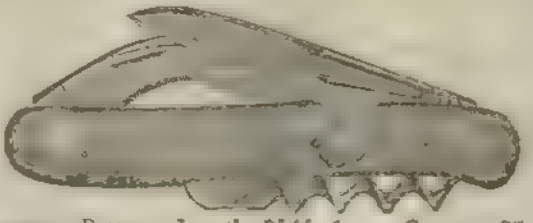
Congress Pattern; Length 4 inches; Polished Steel Rat Tail Bolsters; One Large Congress, One Tobacco and Two Small Pen Blades, Glazed; Brass Lining; No Shield; Wt. per Dozen 2⅝ lbs. Per Dozen
No. B2183—Patent Stag Handle **$28 00**
Half Dozen in a Box



Senator Pattern; Length 3⅜ inches; German Silver Flush Bolsters; One Large Spear, Two Small Pens and One File Blade; Full Polished, Brass Lining, German Silver Shield; Wt. per Dozen 20 lbs. Per Dozen
No. B16573 Pearl Handle **$40 00**

Congress Pattern; Length 3½ inches; Polished Steel Rat Tail Bolsters; One Large Sheep Foot, One Tobacco and Two Small Pen Blades, Glazed Brass Lining; No Shield; Weight per Dozen 22 ozs. Per Dozen
No. B2191—Patent Stag Handle **$25 00**

Congress Pattern; Length 3⅝ inches; German Silver Scored Bolsters; One Large Congress, One Tobacco and Two Small Pen Blades, Glazed, Brass Lining; No Shield; Weight per Dozen 1½ lbs. Per Dozen
No. B17083—Patent Stag Handle **$26 00**



Champagne Pattern; Length 3⅝ inches; German Silver Flush Bolsters; One Large Spear and One Small Pen Blade; Full Polished; One Wire Cutter and One Cork Screw; Brass Lining; German Silver Shield Weight per Dozen 2 lbs. Per Dozen
No. B15711—Genuine Stag Handle **$50 00**
No. B15713—Pearl Handle **75 00**

Congress Pattern; Length 4 inches; Polished Steel Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade, Glazed, Brass Lining; No Shield; Weight per Dozen 2½ lbs. Per Dozen
No. B2162—Patent Stag Handle **$29.50**

Congress Pattern; Length 4½ inches; Polished Steel Rat Tail Bolsters; One Large Congress; One Tobacco and Two Small Pen Blades, Glazed; Brass Lining; No Shield; Weight per Dozen 3 lbs. Per Dozen
No. B2194—Patent Stag Handle **$30 00**
All Above, Half Dozen in a Box

POCKET KNIVES

I·XL GEORGE WOSTENHOLM & SON, SHEFFIELD, ENGLAND

THREE BLADE CATTLE

Real Cattle Pattern; Length 3⅝ inches; German Silver flush Bolsters; One Large Spear, One Small Sheep Foot and One Small Pen Blade; Full Polished Pearl Handle, Brass Lining, German Silver Shield; Weight per Dozen 2¼ lbs.

	Per Dozen
No. B16228—Patent Stag Handle	**$32 00**
No. B16229—Pearl Handle	**56 00**

Half Dozen in a Box

Cattle Pattern; Length 3⅝ in.; Polished Steel Scored Bolsters; One Large Spear, One Small Sheep Foot and One Small Pen Blade, Glazed; Iron Lining; German Silver Shield, Weight per Dozen 2 lbs.

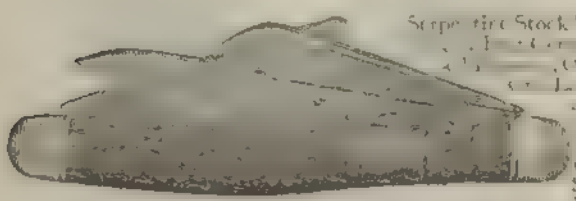
	Per Dozen
No. B2053—Patent Stag Handle	**$20 50**

Half Dozen in a Box

Premier Stock Pattern, Length 3⅝ inches; German Silver Scored Bolsters; One Large Clip, One Large Sheep Foot and One Large Pen Blade, Glazed and Polished, Brass Lining, German Silver Shield; Weight per Dozen 2¼ lbs.

	Per Dozen
No. B2231—Patent Stag Handle	**$30 00**

Half Dozen in a Box



Serpentine Stock Pattern, Length [illegible], German Silver Scored Bolsters, One Large Clip, One Large Sheep Foot and One Large Pen Blade, Glazed; Brass Lining, German Silver Shield; Weight per Dozen 2 lbs.

	Per Dozen
No. B17052—Patent Stag Handle	**$32 00**

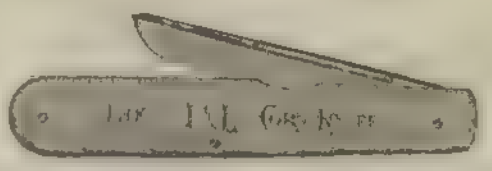
Half Dozen in a Box

Serpentine Stock Pattern; Length 3¾ inches; German Silver Scored Bolsters, One Large Clip, One Large Sheep Foot and One Large Spaying Blade, Glazed, Brass Lining; German Silver Shield; Weight per Dozen 2½ lbs.

	Per Dozen
No. B2233—Patent Stag Handle	**$30 00**

Half Dozen in a Box

CORN

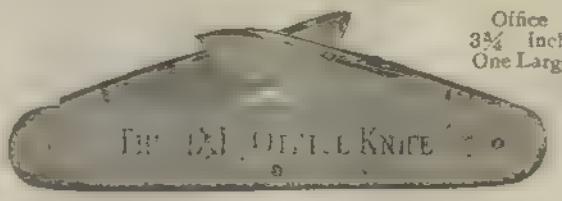


Corn Knife; Length 3¼ inches; Uncapped; One Large Corn Blade Full Polished; Brass Lining; No Shield; Weight per Dozen 12 ozs.

	Per Dozen
No. B12825—Ivory Handle	**$16 00**

Half Dozen in a Box

OFFICE



Office Knife; Length 3¾ inches; Uncapped; One Large Spear and One Eraser Blade, Glazed; Brass Lining; No Shield; Weight per Dozen 20 ozs.

	Per Dozen
No. B16584—White Celluloid Handle	**$17 00**
No. B16570G—Brown Mottled Celluloid Handle	**15 00**

Half Dozen in a Box

BUDDING

Budding Knife; Length 4⅛ inches; German Silver Flush Bolsters; One Long Budding Blade, Brass Lining, No Shield, Weight per Dozen 1¾ lbs.

	Per Dozen
No. B7681—Horn Handle with Ivory Budder	**$15 00**

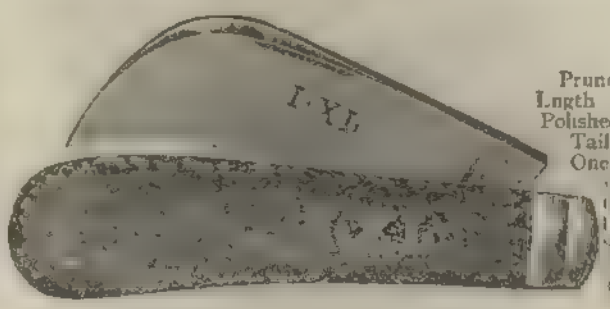
Half Dozen in a Box

PRUNING

Wharncliffe Pruning Pattern; Length 3⅞ inches; Polished Steel Rat Tail Bolsters; One Large Pruning and One Budding Blade, Full Polished Brass Lining, German Silver Shield; Weight per Dozen 2 lbs.

	Per Dozen
No. B17051—Patent Stag Handle	**$24 00**

Half Dozen in a Box



Pruner Pattern; Length 4¼ inches, Polished Steel Rat Tail Bolsters; One Large Pruning Blade, Glazed; Unlined, No Shield; Wt. per Dozen 2½ lbs.

	Per Dozen
No. B11933—Japanned Iron Handle	**$10.00**

Half Dozen in a Box

POCKET KNIVES

I*X L. GEORGE WOSTENHOLM & SON, SHEFFIELD, ENGLAND

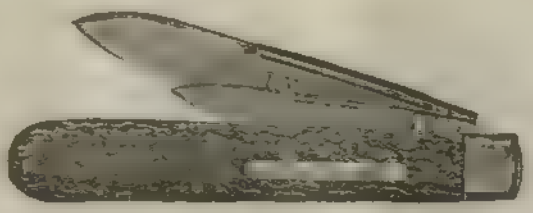
TWO BLADE JACKS

Gun Stock Pattern; Length 3½ inches; German Silver Knurled Bolsters and Tail Pipes, One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; German Silver Shield; Weight per Dozen 1⅞ lbs.

Per Dozen

No. B17006—Patent Stag Handle $22.00

Half Dozen in a Box



Length 3⅝ inches; German Silver Flush Bolsters, No Caps; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; German Silver Shield; Weight per Dozen 1⅝ lbs.

Per Dozen

No. B17002—Patent Stag Handle $15 50

Length 3⅛ inches; German Silver Flush Bolsters and Caps; One Large Spear and One Small Pen Blade, Glazed; Brass Lining; German Silver Shield; Weight per Dozen 1⅞ lbs.

Per Dozen

No. B17046G—Patent Stag Handle $16 00

Gun Stock Pattern; Length 3¾ inches; Polished Steel Rat Tail Bolsters and German Silver Flush Caps; One Large Spear and One Small Pen Blade Glazed, Brass Lining, German Silver Shield, Weight per Dozen 2½ lbs.

Per Dozen

No. B17009—Patent Stag Handle $16 00

Half Dozen in a Box

Length 3⅛ inches, German Silver Flush Bolsters and Caps; One Large Spear and One Small Pen Blade Glazed, Brass Lining, German Silver Shield; Weight per Dozen 2½ lbs.

Per Dozen

No. B17011—Patent Stag Handle $16.00

Anglo-Saxon Pattern; Length 3⅝ inches; German Silver Scored Bolsters, One Large Spear and One Small Pen Blade Glazed, Brass Lining, German Silver Shield, Weight per Dozen 2⅜ lbs.

Per Dozen

No. B2043—Patent Stag Handle $16 50

Half Dozen in a Box

Length 3⅝ inches; German Silver Flush Bolsters and Caps; One Large Spear and One Small Pen Blade; Full Polished, Brass Lining, German Silver Shield; Weight per Dozen 2½ lbs.

Per Dozen

No. B17004—Patent Stag Handle $20 00

Physicians Pattern; Length 3¾ inches; Polished Steel Rat Tail Bolsters and German Silver Seal Cap; One Large Spear and One Small Pen Blade, Full Polished, Brass Lining; No Shield; Weight per Dozen 1⅝ lbs.

Per Dozen

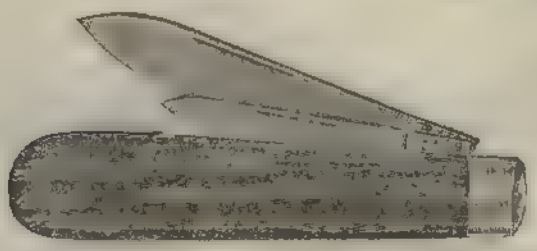
No. B17005—Patent Stag Handle $24 00

Half Dozen in a Box

POCKET KNIVES

I*XL GEORGE WOSTENHOLM & SON, SHEFFIELD, ENGLAND

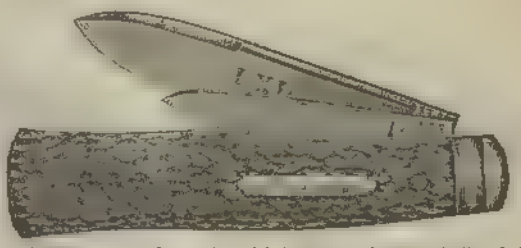
ONE AND TWO BLADE JACKS



Regular Jack Pattern; Length 3⅝ inches; Polished Steel Flush Bolsters; One Large Spear and One Small Pen Blade Glazed; Iron Lining; No Shield; Weight per Dozen 2½ lbs.

Per Dozen

No. B7001 Genuine Stag Handle **$12 00**

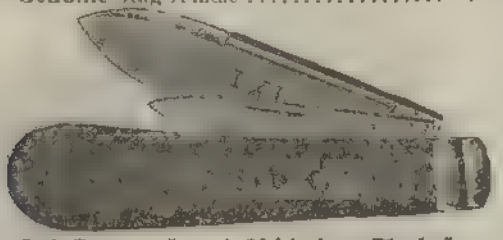


Gun Stock Pattern, Length 3⅝ inches; Polished Steel Rat Tail Bolsters; One Large Spear and One Small Pen Blade, Glazed; Iron Lining; German Silver Shield; Weight per Dozen 2¼ lbs.

Per Dozen

No. B17007 Patent Stag Handle **$16 00**

Half Dozen in a Box

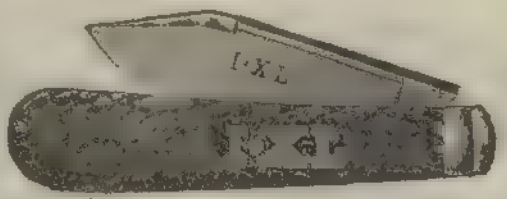


Regular Jack Pattern; Length 3⅝ inches; Black Japanned Iron Handle; Polished Rat Tail Bolsters; Glazed Blades; Iron Lining; No Shield; Weight per Dozen 2½ lbs.

Per Dozen

No. B8010—One Large Spear, One Small Pen Blade. **$10 50**

No. B8013—One Large Clip, One Small Pen Blade **10 50**



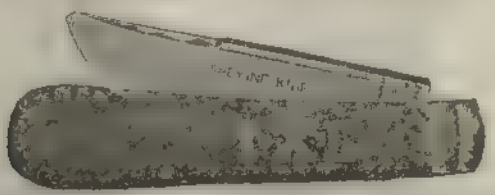
Regular Jack Pattern; Length 3⅝ inches; Black Japanned Iron Handle; Polished Rat-Tail Bolsters; Glazed Blades; Unlined; No Shield; Weight per Dozen 1⅝ lbs.

Per Dozen

No. B8012—One Large Spear Blade **$8 00**

No. B8013—One Large Clip Blade **6.00**

Half Dozen in a Box



Regular Jack Pattern; Length 3¾ inches. Polished Steel Rat Tail Bolsters; One Large Spaying Blade, Glazed; Unlined, No Shield; Weight per Dozen 1⅝ lbs.

Per Dozen

No. B13786 Black Japanned Iron Handle **$6.00**

Half Dozen in a Box

Boys' Jack Pattern, Length 3⅛ inches, No Bolsters; One Large Spear Blade Glazed; Unlined, No Shield, Weight per Dozen 18 ozs.

Per Dozen

No. B50—Black Japanned Iron Handle **$2.30**

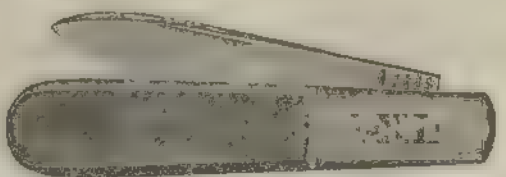
One Dozen in a Box

BARLOWS

Barlow; Length 3¾ inches. Polished Steel Bolsters; One Large Spear and One Small Pen Blade, Glazed; Iron Lining No Shield; Weight per Dozen 2 lbs.

Per Dozen

No. B2B—Brown Bone Handle **$6.50**



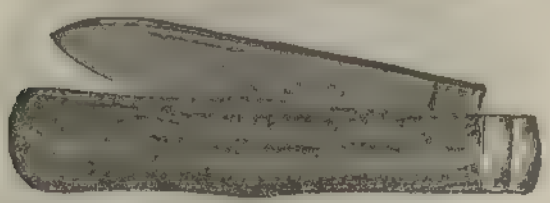
Barlow; Length 3⅛ inches; Polished Steel Bolsters; One Large Spear Blade, Glazed, Iron Lining; No Shield; Weight per Dozen 1½ lbs

Per Dozen

No. B1B—Brown Bone Handle **$4 00**

Half Dozen in a Box

JOSEPH RODGERS & SONS, SHEFFIELD, ENGLAND



Gun Stock Pattern; Length 3⅝ inches; Polished Steel Rat Tail Bolsters, One Large Spear Blade, Full Polished; Iron Lining, No Shield; Weight per Dozen 2¼ lbs.

Per Dozen

No. A19923 1B—Genuine Stag Handle **$14 70**

Gun Stock Pattern; Length 3⅝ inches; Polished Steel Rat Tail Bolsters, One Large Spear and One Small Pen Blade; Full Polished; Iron Lining, No Shield; Weight per Dozen 1¾ lbs.

Per Dozen

No. A19923 2B Genuine Stag Handle **$28.00**

Half Dozen in a Box

POCKET KNIVES

JOSEPH RODGERS & SONS, SHEFFIELD, ENGLAND

TWO BLADE PENS

Congress Pattern: Length 3 inches; Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade, Glazed; Brass Lining; No Shield; Weight Per Dozen 10 ozs.

Per Dozen

No. A22418ST—Genuine Stag Handle.$17.50

No. A22418P —Pearl Handle..... 30 00

Half Dozen in a Box

Congress Pattern; Length 3¾ inches; Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade, Glazed; Iron Lining; No Shield; Weight per Dozen 22 ozs.

Per Dozen

No. A12091ST—Genuine Stag Handle $28.00

Half Dozen in a Box

Sleeve Board Pattern; Length 3¼ inches; Uncapped; One Large Spear and One Small Pen Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 12 ozs.

Per Dozen

No. A21797ST—Genuine Stag Handle. $22.50

No. A21797IV—Genuine Ivory Handle. 15 50

No. A21798P —Pearl Handle..... 46 00

Half Dozen in a Box

THREE BLADE PENS

Congress Pattern; Length 3¼ inches; Polished Steel Rat Tail Bolsters; One Large Congress, One Small Pen and One File Blade, Glazed; Iron Lining; No Shield; Weight per Dozen 14 ozs.

Per Dozen

No. A22445/3B—Genuine Stag Handle.$32 00

Half Dozen in a Box

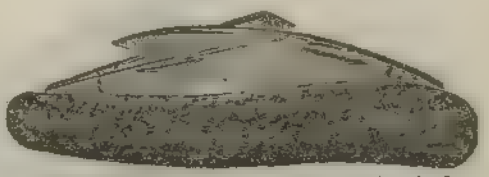
Sleeve Board Pattern; Length 3¼ inches; Uncapped; One Large Spear and Two Small Pen Blades; Full Polished; Brass Lining; No Shield; Weight per Dozen 16 ozs.

Per Dozen

No. A21860ST—Patent Stag Handle. .$30 00

No. A21860P —Pearl Handle. 56.00

Half Dozen in a Box



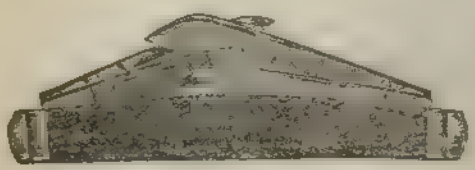
Wharncliffe Pattern; Length 3⅜ inches; Uncapped; One Large Wharncliffe, One Small Coping and One Small Pen Blade, Full Polished; Brass Lining; No Shield; Weight per Dozen 8 ozs.

Per Dozen

No. A16072ST—Genuine Stag Handle..$33 00

Half Dozen in a Box

FOUR BLADE PENS



Congress Pattern; Length 3¼ inches; Polished Steel Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade, Glazed; Iron Lining; No Shield; Weight per Dozen 16 ozs.

Per Dozen

No. A22445/4B—Genuine Stag Handle.$33.00

Half Dozen in a Box

Congress Pattern; Length 3¼ inches; Polished Steel Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade; Full Polished; Brass Lining; No Shield; Weight per Dozen 16 ozs.

Per Dozen

No. A12553P -Pearl Handle..... $53 00

Half Dozen in a Box

Congress Pattern; Length 3½ inches; Polished Steel Rat Tail Bolsters; One Large Congress, Two Small Pens and One File Blade, Glazed; Iron Lining; No Shield; Weight per Dozen 18 ozs.

Per Dozen

No. A22445/3½TOB—Genuine Stag Handle $36 00

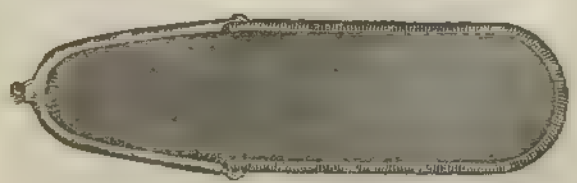
Half Dozen in a Box

POCKET KNIFE PURSES

Slip End; Calfskin; Assorted Colors; Silk Stitched

Nos.	W3	W3½
Length, Inches	3	3½
Weight per Gross, Lbs.	⅝	¾
Per Gross	$14.40	14.40

Sixth Gross in a Box



Clasp End; Drab Chamois Skin; Silk Stitched

Nos.	KB3	KB3½	KB4	KB5
Length, Inches	3	3½	4	5
Weight per Gross, Lbs.	2	3	3	3
Per Dozen	$1.70	1.70	1.70	1.70

Glove Fastener; Calfskin, Assorted Colors; Silk Stitched

Nos.	RB3	RB3½	RB4	RB5
Length, Inches	3	3½	4	5
Weight per Gross, Lbs.	1⅛	1½	1½	1¾
Per Gross	$14.40	14.40	14.40	14.40

Quarter Gross in a Box.

PADLOCK ASSORTMENTS.

ON CARDS.

Per Card

No. BS1—Comprising twelve padlocks, two of each kind, all with barrel keys, mounted on a heavy easel back cardboard, with keys attached..... **$6.25**

One assortment in a box, weight 4½ lbs.

Per Card

No. BS2—Comprising twelve padlocks, four with chain, six with barrel keys, six with flat keys, mounted on a heavy easel back cardboard, with keys attached..... **$7.90**

One assortment in a box, weight 5 lbs.

Per Card

No. R—Assortment; comprising 12 six-lever padlocks (similar type to No 925½, page 976), one-half dead black, one-half brass plated, with circular steel inset ornament, mounted on an attractive card.....**$6.60**

One assortment in a box; weight 5¼ lbs.

No. 925½.

Per Dozen

No. 925½—Size 2 inches, heavy wrought steel, brass plated heavy spring shackle, 6 levers, 2 nickel plated steel keys; weight per dozen, 4½ lbs **$5.80**

No. 925½C—Same as above, with steel chain; weight per dozen, 5 lbs..... **7.90**

No. 2936½.

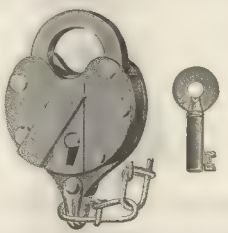
Per Dozen

No. 2936½—Size 2½ inches, extra heavy wrought steel, brass plated, extra heavy self-locking spring shackle, 8 levers, 2 nickel plated steel keys; weight per dozen, 7½ lbs **$11.20**

Half dozen in a box.

Per Dozen

No. 1419—Size 3⅛x2¼ inches; heavy galvanized steel case and shackle; 4 secure levers, all inside parts and rivets made of brass, 2 nickel plated flat steel keys, galvanized chain; weight per dozen 9½ lbs.; all keyed alike **$19.80**



Per Dozen

No. 1636—Size, 2¼ inches; all bronze metal; heavy pivoted tumblers; self locking spring shackle; dust proof spring drop; 2 bronze metal keys, with steel chain; weight per dozen, 10½ lbs; all keyed alike. **$20.75**

Half dozen in a box.

Per Dozen

No. 403W—Size, 2½ inches; brass bushing, wheel, side and bridge wards; rev. dwng key pin, 2 flat steel keys, 12 changes; weight per dozen, 6 lbs **$8.85**

Per Dozen

No. 16W—Size, 2¼ inches; with chain; brass drop, raised bushing, 1 wheel and side ward; wrought bolt tumbler, 2 barrel keys to each lock; weight per dozen, 6¼ lbs.....**$6.60**

Half dozen in a box.

Cuts half size,

Nos. 100B and 105B.

Per Dozen

No. 100B—Size 1¼ inches, brass plated steel case, malleable shackle, self locking, 2 nickel plated flat steel keys..**$2.50**

One dozen in a box, weight ¾ lb.

No. 105B—Size 1⅞ inches, brass plated steel case, malleable shackle, self locking, locks at nose and heel, 2 nickel plated flat steel keys, 12 changes..... **5.80**

Half dozen in a box, weight per dozen, 3 lbs.

Brass plated steel case, malleable shackle, self locking, 2 nickel plated flat steel keys.

Per Dozen

No. 477B—Size 1 1/16 inches; weight per dozen, ⅝ lb.....**$2.50**

No. 478B—Size 1 1/16 inches; weight per dozen, 1 1/16 lbs..... **2.95**

No. 479B—Size, 1 1/16 inches: weight per dozen, 1 1/16 lbs..... **2.95**

No. 480B—Size 1 1/16 inches; weight per dozen, 2 1/16 lbs..... **3.60**

No. 481B—Size 2 1/16 inches; weight per dozen, 3 1/16 lbs..... **4.50**

Nos. 477B to 480B packed one dozen in a box;
No. 481B packed one-half dozen in a box

No. 76.

Per Dozen

No. 76—Size 1⅝x2 inches, black finish, wrought steel case, rotating spring shackle, automatic self locking, black finish, 4 brass tumblers, 2 nickel plated flat steel keys, 12 changes in a dozen; weight per dozen, 3 lbs **$9.00**

Half dozen in a box.

RURAL FREE DELIVERY

Per Dozen

No. 242—Size 1¾ inches, brass case and interior working parts, except spring, which is galvanized; galvanized malleable iron spring shackle, two flat steel change keys to each lock; furnished in sets of 72 different changes, subject to one master key; weight per dozen, 2⅝ lbs....**$8.65**

One dozen locks in a box with 12 changes, packed with 2 change keys to each lock and one master key to pass all.

We do not break boxes. If more than 1 dozen are wanted in a set, specify 24 or 60 **different changes** depending on quantity desired.

Per Dozen

No. 21—Size, 2 inches; ivory black steel case; malleable shackle, self locking; locks at nose and heel; 2 nickel plated flat steel keys, 12 changes..... .....**$4.50**

No. 21B—Same as No. 21, but brass plated case..... **4.50**

Half dozen in a box, weight 2½ lbs.

Per Dozen

No. 88—Size 1⅞ inches; reinforced dead black steel case; heavy nickel plated steel shackle; 2 nickel plated flat steel keys.....**$4.50**

No. 88B—Same as No. 88 but brass plated..... **4.50**

Half dozen in a box, weight per dozen 3¼ lbs.

YALE PADLOCKS.

Cuts half size.

No. 674N.

Per Dozen

No. 674N—Size 1¾ inches, nickel-plated steel case and shackle, self-locking, 2 No. 674 nickel-plated steel keys, weight per dozen 1½ lbs. **$2.64**

Half dozen in a box.

Per Dozen.

No. 453J—Size 1⅛ inches, ivory black steel case, brass plated malleable iron shackle, self-locking, 2 No. 453 nickel-plated steel keys, weight per dozen 1½ lbs... **$2.40**

No. 455X—Size 2 inches, brass plated steel case, brass plated malleable shackle, 2 No. 455 nickel plated flat steel keys; weight per dozen, 3 lbs. **4.00**

Half dozen in a box.

No. 115.

Per Dozen.

No. 115J—Size 2 inches, ivory black steel case, nickel plated steel rotating shackle, self-locking, 2 No. 810 nickel plated corrugated steel keys, weight per dozen, 3½ lbs. **$4.50**

Half dozen in a box.

No. 671V.

Per Dozen

No. 671V—Size 1 inch, brass case and shackle, self-locking, 2 No. 671 nickel-plated steel keys, weight per dozen 1 lb. **$4.00**

Half dozen in a box.

Keys packed with No. 9645J.

Nos. 645J to 9645J.

Keys packed with Nos. 645J and 645C.

Per Dozen

No. 645J—Size 2 inches, ivory black steel case, nickel plated steel spring shackle, self-locking, 3 tumblers, 2 No. KS10 flat steel keys, weight per dozen 3 lbs. **$5.00**

No. 9645J—Same as No. 645J, but with 2 No. 9575 nickel plated malleable iron barrel keys. **5.30**

Half dozen in a box.

No. 615S.

Per Dozen.

No. 615S—Size 2 inches, ivory black steel case, nickel-plated rotating steel shackle, self-locking, 2 No. 615 nickel-plated steel keys, weight per dozen 2¾ lbs. **$6.00**

Half dozen in a box.

Cuts half size

COMBINATION.

Per Dozen

No. D—Size 1¼ inches, brass case, steel shackle, 2 number combinations $13.50

No. B—Size 1⅝ inches, otherwise same as No. D. 15.55

No. E—Size 1¾ inches, steel case and shackle, brass inside works, 3 number combination with click feature so it can be operated in the dark. 17.14

No. F—Same as No E, but with brass case. 21.75

Nos B and D, ⅓ dozen; Nos. E and F, ¼ dozen in a box.

Per Dozen

No. 125—Size 2¼ inches, cast brass case, black finish and self-locking spring shackle, 2 nickel plated steel keys, weight per dozen 5½ lbs. $16.50

No. 125C—Same as No. 125, with chain, weight per dozen 6¾ lbs. 18.00

Half dozen in a box.

Per Dozen

No. 470—Size 1¼ inches, cast brass case, rotating nickel plated steel shackle, self-locking, 2 nickel plated flat stee. keys; weight per dozen, 1½ lbs $6.45

No. 473—Size 1⅝ inches; weight per dozen, 3¼ lbs.; otherwise same as No. 470. . . . . 8.70

No. 69—Size 2¼ inches; weight per dozen, 5¼ lbs.; otherwise the same as No. 470. . . . . 9.90

Half dozen in a box.

F·O·K·C

Per Dozen

No. 686—Size 2 inches, ivory black wrought steel case, malleable iron shackle, all brass inside works, 6 levers, 144 changes, 2 nickel plated flat steel keys; weight per dozen, 4½ lbs. $11.25

No. 686 Alike—Same as above, but all keys alike . . . 11.25

No. 686MK—Same as No. 686, but all different and master keyed, 2 change key for each lock, 1 master key for each series. 14.80

No. 686C—Same as No. 686, but with chain; weight per dozen, 5½ lbs. 13.00

No. 686C Alike—Same as above, but all keys alike. 13.00

No. 686CMK—Same as No. 686MK, but with chain. 16.65

Half dozen in a box.

EXTRA KEYS.

	Each
Extra change keys for above locks	$0.18
Master keys (not included in the price of the locks).	.75

Per Dozen

No. 178—Size, 1¼ inches, cast brass case, coppered steel spring shackle, unusually large shackle opening, 2 extra heavy nickel plated steel keys. $6.00

No. 180—Size, 2½ inches, extra heavy and strong, otherwise same as No. 178. . . . . 9.00

No. 178 one dozen in a box; weight 1¾ lbs.

No. 180 half dozen in a box; weight 4¼ lbs.

YALE PADLOCKS.

Cuts half size.

No. 9425B.

Per Dozen.

No. 9425B—Size, 2 inches; cast bronze metal case and shackle self-locking, 2 No. 9575 nickel plated malleable iron barrel keys; weight per dozen, 5 lbs. $10.50

Half dozen in a box.

Nos. 745S and 745V.

Per Dozen

No. 743S—Size 1½ inches, bower-barffed steel case, bronze inside work, nickel plated rotating spring shackles, 3-pin tumbler, 36 changes, 2 No. 16 nickel plated keys; weight per dozen, 3 lbs. $18.70

No. 745S—Size 2 inches, bower-barffed steel case, bronze inside works, nickel plated rotating spring shackle; 4-pin tumblers, 144 changes, 2 No. 6 nickel plated keys; weight per dozen, 5½ lbs. 20.50

***No. 745SMK**—Same as No. 745S, but master keyed, furnished from factory only 24.00
F. O. B. Factory

Half dozen in a box.

*Master Keys 50c each.

No 1701B.

Per Dozen

No. 1701B—Size 1 inch, cast bronze case, nickel plated steel shackle, 4-pin tumblers, 2 No. 10 paracentric keys; weight per dozen, 3 lbs. $20.50

No. D1701—Same as No. 1701B, but with dust guard .. 23.50

Half dozen in a box.

No. 605V.

Per Dozen.

No. 605V—Size 2 inches, brass case, nickel-plated steel shackle, self-locking, 2 No. 605 nickel-plated steel keys, weight per dozen, 4¾ pounds. $11.20

Half dozen in a box.

No. 8454.

Per Dozen

No. 8414—Size 1 inch, bower-barffed steel case and spring shackle, bronze interior mechanism, 3 lever tumblers, 48 changes, 2 No. 76 nickel plated steel keys for each lock; weight per dozen, 1⅞ lbs. $12.50

No. 8434—Size 1½ inches, 2 No. 67 nickel plated keys for each lock, otherwise same as No. 8414; weight per dozen, 3⅝ lbs. 16.00

No. 8454—Size 2 inches, bower-barffed steel case, solid bronze inside works, bower-barffed forged steel spring shackle, 4 lever tumblers, 144 changes, 2 No. 68 corrugated nickel plated steel keys to each lock; weight per dozen, 5¾ lbs 19.50

No. 8454½—Same as No. 8454, but with 9-inch galvanized chain; weight per dozen, 6½ lbs. 23.50

Half dozen in a box.

Per Dozen

No. 805F—Size 2 inches, bower-barffed iron case, solid bronze self-locking shackle, solid bronze inside mechanism, pin tumbler, 2 No. 3½ nickel plated flat steel keys to each lock, weight per dozen, 7 lbs. $17.00

Half dozen in a box.

Cuts half size.

No. 225.

TITAN.

Per Dozen

No. 223—1½ inches, bower-barffed iron case, wrought steel inside works, brass plated steel panel and shackle, two No. 223 nickel plated flat steel keys, weight per dozen, 3 lbs..... **$6.00**

No. 225—Size 2 inches and No. 225 key, otherwise the same as No. 223, weight per dozen, 6 lbs..... **7.20**

No. 225½—Same as No. 225, with 9-inch brass plated chain, weight per dozen, 6¾ lbs..... **10.50**

Half dozen in a box.

No. 215.

Per Dozen

No. 215—Size 2⅝ inches in diameter. Case a solid block of iron, Nubian finish. Works enclosed by pieces of crescent shaped, brass plated steel plates, securely riveted together. Brass plated malleable iron shackles. Two nickel plated flat steel keys, weight per dozen, 6¾ pounds..... **$7.16**

Half dozen in a box.

Per Dozen.

No. 526—Size 2¼ inches, cast iron oxidized brass plated frame, dead black steel discs, brass plated self-locking steel shackle, 4 lever tumblers, 144 changes, 2 No. 526 nickel plated steel keys, weight per dozen 8¾ lbs..... **$19.30**

Half dozen in a box.

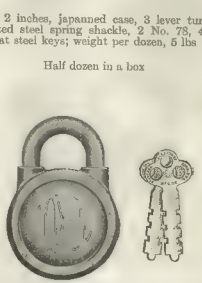
No. 565.

Per Dozen

No. 563—Size 1½ inches, japanned case, 3 lever tumblers, nickel plated steel spring shackle, 2 No. 77, 48 key changes, flat steel keys; weight per dozen, 2¾ lbs..... **$11.00**

No. 565—Size 2 inches, japanned case, 3 lever tumblers, nickel plated steel spring shackle, 2 No. 78, 48 key changes, flat steel keys; weight per dozen, 5 lbs **13.20**

Half dozen in a box



Per Dozen.

No. 326—Size 2¼ inches, cast iron dead black frame, copper plated steel discs, copper plated self-locking steel shackle, 2 No. 412 nickel plated steel keys, weight per dozen, 8 pounds..... **$11.70**

Half dozen in a box.

Per Dozen.

No. 726—Size 2¼ inches, cast iron Bower-Barff frame, bronze plated steel discs, bronze inside works, bronze plated self locking steel shackle, 4 pin tumblers, 2 No. 11 paracentric keys, weight per dozen 10½ pounds..... **$30.00**

One in a box, six in a carton

PADLOCK ASSORTMENTS.

BOXED.

Per Box

No. B. F.—Assortment; one dozen 1½ inch assorted padlocks as shown above, 2 each galvanized, japanned and brass plated finishes, all packed with 2 keys each, in a card board box, weight per box, 1¾ pounds **$2.50**

Per Box

No. 8A2—One dozen assorted padlocks as shown above, 2 each japanned and brass plated of each kind, 4 are 1⅞ inch, 8 are 2 inch size; two keys with each lock; all packed in a card board box; weight per box 2½ lbs.....**$3.30**

PADLOCKS.

Brass plated wrought steel; self locking spring shackle; 2 keys.

Per Dozen

No. 2995¼—Size, 1¼ inches; weight per dozen, 1¼ lbs ...**$2.35**

No. 2997¾—Size, 1¾ inches; weight per dozen, 2¼ lbs.... **2.70**

No. 2998¾—Size, 2 inches; weight per dozen, 3 lbs..... **3.00**

Per Dozen

No. 1256½—Size, 2¼ inches; galvanized steel case; galvanized inside work; brass rivets; 1 tumbler; 2 malleable iron keys; weight per dozen, 3½ lbs.....**$4.50**

One dozen in a box.

Universal

Silver Overlaid Table Service

UNIVERSAL SILVER OVERLAID TABLE SERVICE is made by depositing upon a solid white nickel silver base a heavy reinforced plate of pure silver of sufficient thickness to withstand the constant wear of many years.

Each piece is unexcelled in workmanship, uniformly correct in proportion and design and will give during its long period of service a distinction to the table hitherto unattained except by the best products of Sterling Silver.

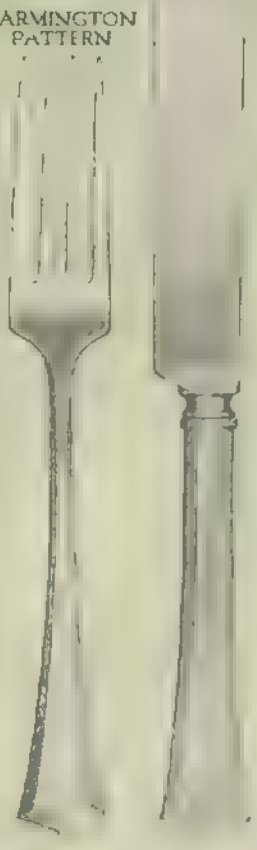
Only Resistain steel or solid Silvadium blades which will not stain, rust or turn black on the edges are used on all Hollow Handle Cutlery pieces—an exclusive "Universal" feature.

SAYBROOK PATTERN

FARMINGTON PATTERN

FARMINGTON the beautiful New England town from which this pattern takes its name, is one of the oldest settlements in Connecticut and is renowned for its fine examples of early Colonial architecture.

The chaste simplicity of the lines of the spire and belfry of the old church, its most admired structure, is suggested in the Farmington pattern.



FARMINGTON PATTERN

SAYBROOK PATTERN

Where "Old Saybrook" still stands at the mouth of the Connecticut the first fort of the colony was located. On the broad village street stands the old historic homestead known as the "House of Romance", the favorite visiting place of Washington Irving and Fitz-Greene Halleck and from where the gallant Commodore Isaac Hull won his bride.

Truly Colonial in design and suggesting romantic traditions, the Saybrook pattern will be particularly valued as a wedding gift that may be handed to succeeding generations as a treasured family heirloom.

House of Romance at Old Saybrook

UNIVERSAL SILVER OVERLAID TABLE SERVICE costs but little more, is worth considerably more and should not be confused with ordinary silver plated ware

The brand "Universal" on silver table ware is a mark of supreme quality the result of an experience of over fifty years in the artistic working and plating of metals It is our absolute guarantee on each piece that it will give satisfactory service in any household

Landers, Frary & Clark, New Britain, Conn.

Master cutlers for over half a century

UNIVERSAL

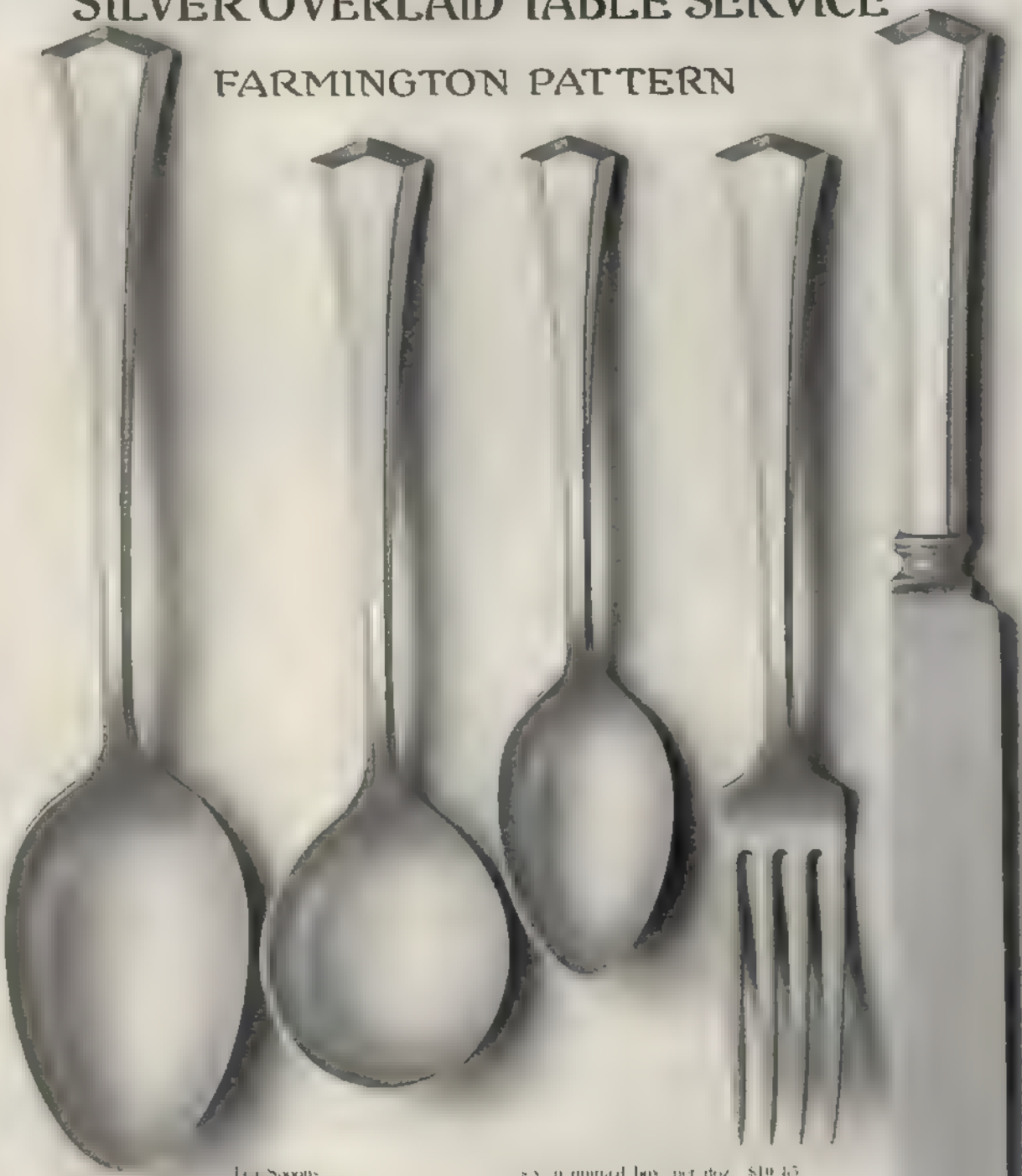
Copyright 1917

Advertisement similar to above will appear in Women's Home Companion, other Ads in Ladies' Home Journal, Good Housekeeping and Delineator

UNIVERSAL

SILVER OVERLAID TABLE SERVICE

FARMINGTON PATTERN



Tea Spoons	six in gilt lined box	per doz		$10	45
Dessert Spoons	"	"	"	19	95
Table Spoons	"	"	"	21	65
Soup Spoons	"	"	"	21	65
Bouillon Spoons	" lined	"	"	19	35
No. 639 Medium Knives, Hollow Handles, Solid Silvertone Blades, six in roll		per doz.		$11	15
No. 638 Medium Knives, Hollow Handles, Rogers Ware Blades, six in roll		per doz.		11	15
No. 637 Dessert Knives, Hollow Handles, Solid Silvertone Blades, six in roll		per doz.		10	55
Medium Forks, Flat Handles, six in box				21	65
Dessert Forks, Flat Handles, six in box				19	95

ILLUSTRATIONS ACTUAL SIZE

MEDIUM AND DESSERT KNIVES WITH CIMETER BLADES ADD 80c. PER DOZ.

UNIVERSAL

SILVER OVERLAID TABLE SERVICE

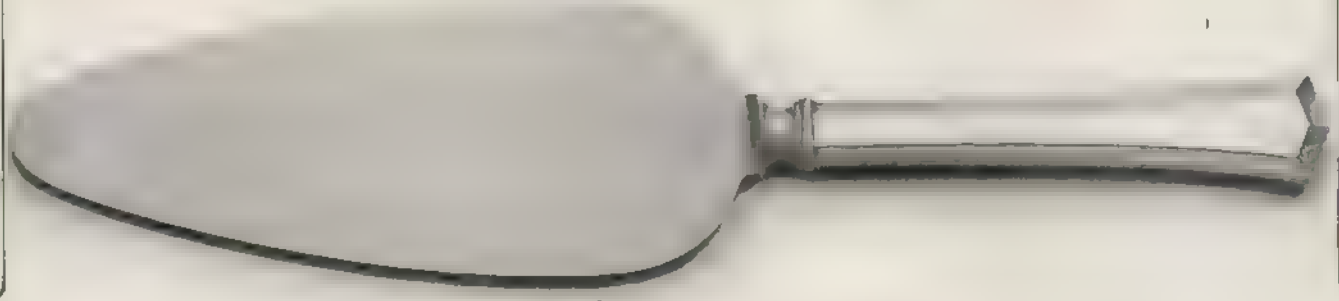
FARMINGTON PATTERN

ILLUSTRATIONS
ACTUAL SIZE

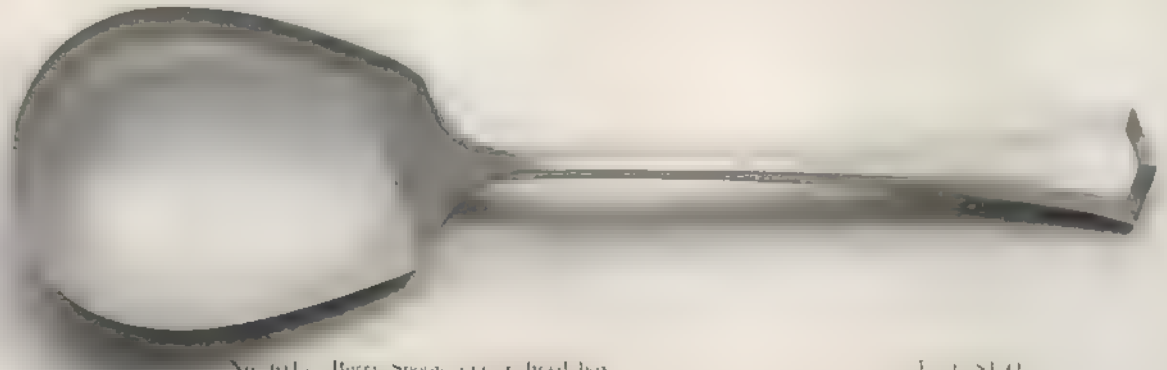
UNIVERSAL

SILVER OVERLAID TABLE SERVICE

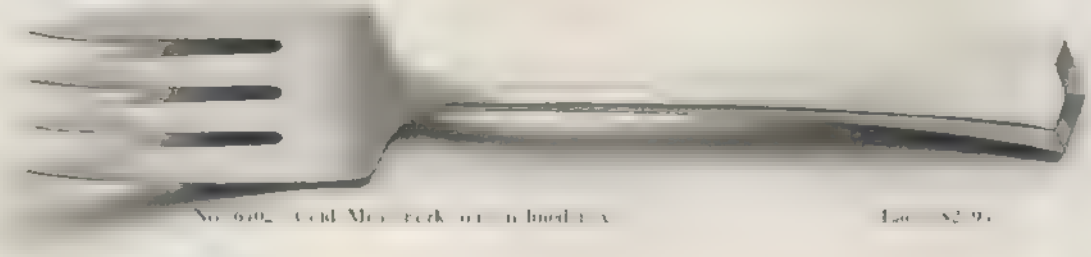
FARMINGTON PATTERN



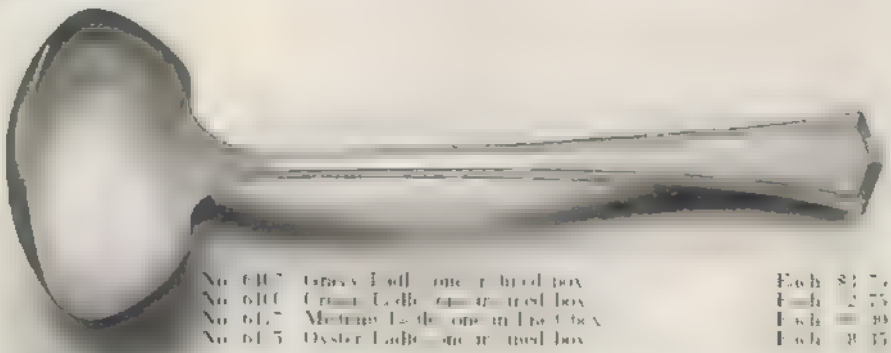
No. 6105 Pie Server, Hollow Handle, Solid Silvadium Blade, one in lined box, Each, $6.00



No. 6115 Berry Spoon, one in lined box — Each $4.00



No. 6102 Cold Meat Fork, one in lined box — Each $2.50

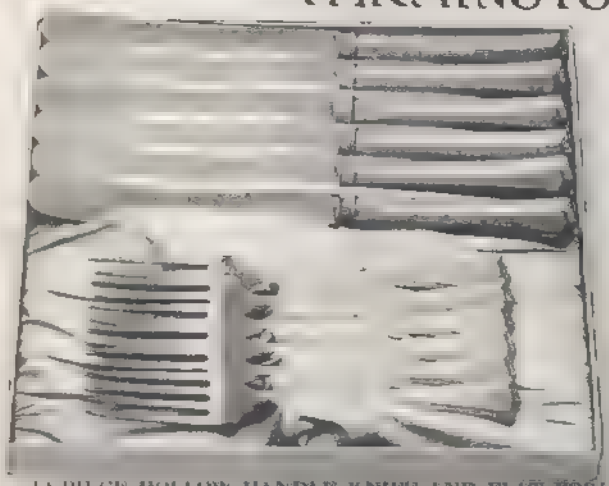


No. 6107	Gravy Ladle, one in lined box	Each $3.75
No. 6101	Cream Ladle, one in lined box	Each 2.75
No. 6117	Mustard Ladle, one in Lined Box	Each .90
No. 6113	Oyster Ladle, one in lined box	Each 3.75

UNIVERSAL

SILVER OVERLAID TABLE SERVICE

FARMINGTON PATTERN



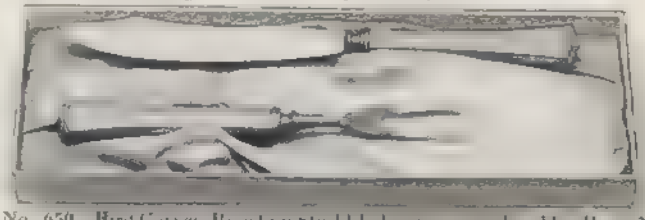
12 PIECE HOLLOW HANDLE KNIFE AND FLAT FORK SETS

No. 6387	6 H. H. Medium Knives and 6 Flat Medium Forks, Resistain Steel, Straight Blades	Set $27 75
No. 6397	6 H. H. Medium Knives and 6 Flat Medium Forks, Solid Silvadium, Straight Blades	" 27 75
No. 6367	6 H. H. Dessert Knives and 6 Flat Dessert Forks, Resistain Steel, Straight Blades	" 26 80
No. 6377	6 H. H. Dessert Knives and 6 Flat Dessert Forks, Solid Silvadium, Straight Blades	" 26.80

For Cimeter Swaged Blades Add No. 1 and Add to Straight Price, Med. Set 50c Dess. 40c.

No. 631 Hollow Handle Butter Spreaders, Solid Silvadium Blades, six in lined box Set $14.80

No. 623 Individual Salad Fork, six in lined box Set, $19 95



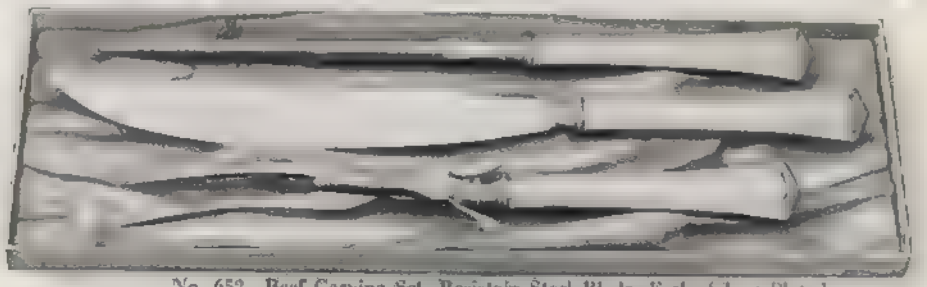
No. 650 Beef Carver Resistain Steel Blade one in a lined box Pair $10 20

No. 651 Game Carver Resistain Steel Blades one in a lined box Pair, $13 90

No. 6482 Butter Knife and Sugar Shell in lined box Set $3 10

No. 634 Hollow Handle Orange Knife Resistain Steel Blades six in lined box Set $15 45

No. 633 H Bow Handle Fruit Knife Resistain Steel Blades six in lined box Set $11 80



No. 652 Beef Carving Set Resistain Steel Blade, Forks Silver Plated One set in lined box Set, $22 20

UNIVERSAL

SILVER OVERLAID TABLE SERVICE

SAYBROOK PATTERN

	Tea Spoons	six in	unlined	box,	per doz	$10	65
	Dessert Spoons,	"	"	"	"	19	95
	Table Spoons,	"	"	"	"	21	65
	Soup Spoons,	"	"	"	"	21	65
	Bouillon Spoons,	"	lined	"	"	19	95
No. 549	Medium Knives, Hollow Handles, Solid Silvadium Blades, six in roll, per doz					31	45
No. 538	Medium Knives, Hollow Handles, Resistum Blades, six in roll, per doz,					31	45
No. 537	Dessert Knives, Hollow Handles, Solid Silvadium Blades, six in roll, per doz					30	55
	Medium Forks, Flat Handles, six in box,					21	65
	Dessert Forks, Flat Handles, six in box					19	95

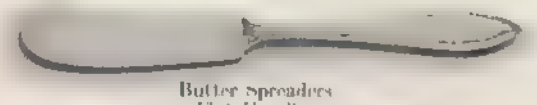
ILLUSTRATIONS ACTUAL SIZE

MEDIUM AND DESSERT KNIVES WITH CIMETER BLADES ADD 10c. PER DOZ

UNIVERSAL

SILVER OVERLAID TABLE SERVICE

SAYBROOK PATTERN



Butter Spreaders
Flat Handles
No. 530 Six in Lined Box Set $8.35

Butter Knife
538/1 One in Lined Box Each $1.85

Individual Salad Forks
No. 523 Six in Lined Box Set $10.00

Oyster Forks
No. 521 Six in Lined Box Set $6.70

Sugar Shell
5361 One in Lined Box Each $1.85

Bouillon Spoons
No. 536 Six in Lined Box. Set $9.70

Butter Spreaders
Hollow Handles Resistain Steel Blades
No. 531 Six in Lined Box Set $14.80

Orange Knives
Hollow Handles Resistain Steel Blades
No. 534 Six in Lined Box Set $15.35

Fruit Knives
Hollow Handles Resistain Blades
No. 533 Six in Lined Box Set $14.80

Cheese Server
Hollow Handle
No. 5406 One in Lined Box Each $3.35

Game Carver Two Pieces
Hollow Handles Resistain Blades
No. 551 Pair in Lined Box $13.90

No. 552 Beef Carver
Three Piece Set $22.20
No. 550 Bird Carver
Pair $10.20 Set $11.70

Pie Server
Hollow Handle
No. 5405 In Lined Box Each $6.00

ILLUSTRATIONS
ONE-HALF SIZE

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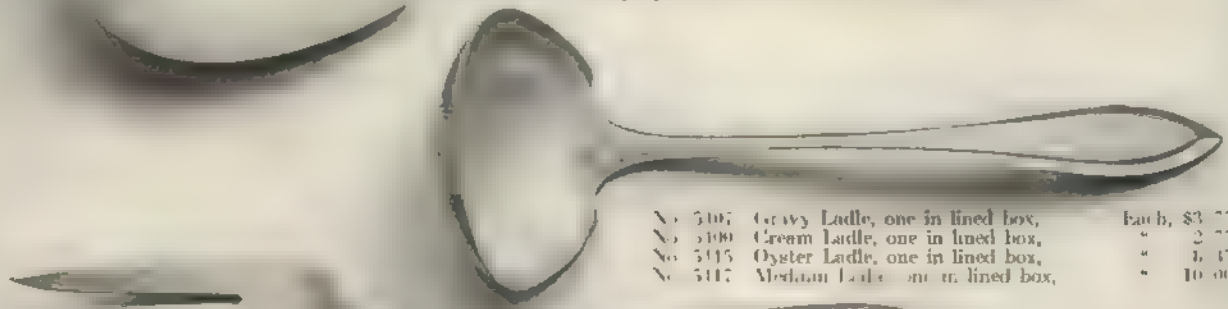
SILVER OVERLAID TABLE SERVICE

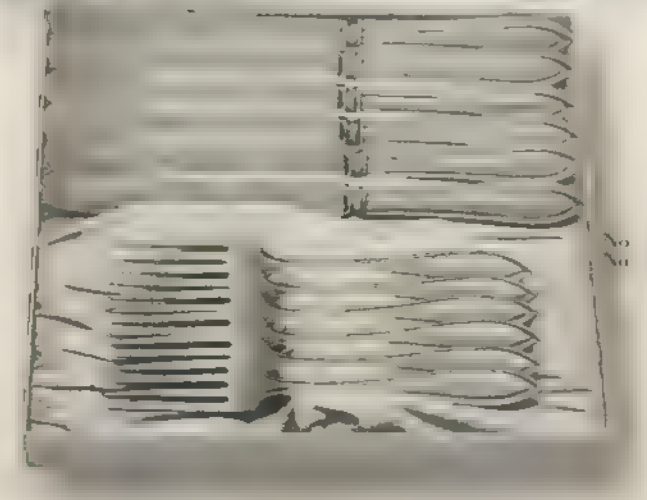
SAYBROOK PATTERN

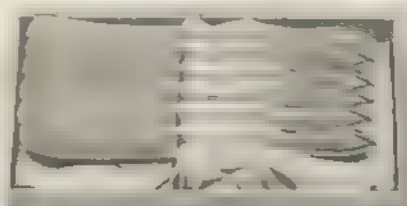
No. 5113 Berry Spoon, one in lined box, . . Each, $4 60



No. 5107	Gravy Ladle, one in lined box,	Each, $3 75
No. 5109	Cream Ladle, one in lined box,	" 2 75
No. 5115	Oyster Ladle, one in lined box,	" 3 45
No. 5117	Medium Ladle, one in lined box,	" 10 00

No. 5102 Cold Meat Fork, one in lined box, . Each, $2 90





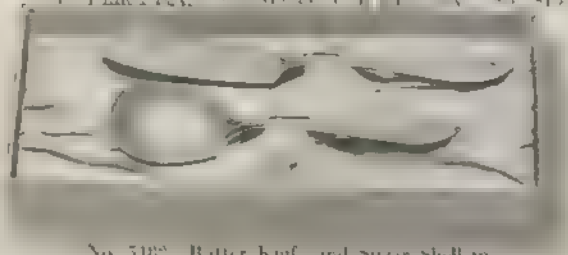
No. 530 Butter Spreaders, Flat Handle, six in lined box, Set, $8 35
No. 531 Butter Spreaders, Hollow Handle, Solid Silvadium Blades, six in lined box, Set, $11 80

No. 533 Hollow Handle Fruit, No. 534 Hollow Handle Orange Knives, Rustless Steel Blade, Knives, Rustless Steel Blade, Set in Lined Box, Set, $11 35 Set, $12 45

12 PIECE HOLLOW HANDLE KNIFE AND FLAT FORK SETS

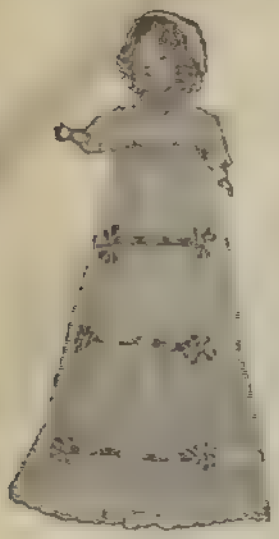
No. 5367	6 H. H. Medium Knives and 6 Flat Medium Forks, Rustless Steel, Straight Blades, ...	Set, $27 75
No. 5397	6 H. H. Medium Knives and 6 Flat Medium Forks, Solid Silvadium, Straight Blades, ...	" 27 75
No. 5367	6 H. H. Dessert Knives and 6 Flat Dessert Forks, Rustless Steel, Straight Blades, ...	" 26 40
No. 5397	6 H. H. Dessert Knives and 6 Flat Dessert Forks, Solid Silvadium, Straight Blades, ...	" 26 40

For Curved or Swaged Blades Add No. 1 to Above Straight Price Medium Sets—Dessert Sets



No. 5182 Butter Knife and Sugar Shell in lined box Set, $4 40

DOLLS



Large Size Head; Length of Body 16 Inches; Length, Including Dress, 28 Inches; Extra Large Unbreakable Head; Real Glass Eyes; Curled Natural Hair; Natural Hands Stuffed Body; Movable Legs and Arms; Extravagantly Dressed; White Lace Bonnet with Silk Ribbon Bows and Ties; Beautiful Fine Sheer White Lawn Dress, Lace Trimmed and with Lace Insertions, Large Silk Ribbon Bows Connected with Long Loops of Ribbon; Lace Trimmed Undergarments with Long Skirt; Fancy Crocheted Blue and White Booties extending to Knees.

Per Dozen
No. 816—Weight per Dozen 24 lbs...**$132 00**
One in a Box

Life Size Doll; Length 21 inches; Extra Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body, Movable Arms and Legs, Elaborately Dressed with Fine Quality White Lawn Dress Trimmed with High Grade Lace, White Petticoat with Embroidered Flounce; White Lace Covered Bonnet; Fine Crocheted Blue and White Booties.

Per Dozen
No. 820—Weight per Dozen 36 lbs. **$108.00**
One in a Box

Schoenhut Perfection All Wood Doll; Made of All Wood, with Steel Hinges and Spring Joints, Head and Body, Cannot be Distinguished from the Finest Bisque Doll; Felt Lined at Necks, Shoulders, Elbows, Wrists, Hips, Knees and Ankles in such Manner that the Doll can be made to Assume any Posture Possible with the Human Body and without the Stiff, Unnatural Appearance of most Dolls. Length 15 Inches; Natural Curled Hair with Silk Ribbon Bow with Lace Trimmed Combination Suit, White Stockings, White Kid Slippers, Complete with Metal Jointed Stand.

Per Dozen
No. 531—Weight per Dozen 21 lbs.....**$102 00**

One in a Box

DOLLS

Schoenhut Perfection All Wood Sitting Doll; Arms and Legs are Carved in the Chubby Fashion of Infants and Curved in the Positions Generally Natural with Babyhood; Jointed Head, Shoulders, and Hips; Owing to Curved Position of Limbs, Dolls can only Successfully Assume Positions of Sitting or Reclining; Height 12½ inches; Full Head of Natural Hair; White Silk Dress with Lace Trimmings.

Per Dozen
No. 530—Weight per Dozen 8 lbs.....**$96 00**
One in a Box

Life Size Doll; Height 16 Inches; Extra Large Unbreakable Head; Real Glass Eyes; Curled Natural Hair; Natural Hands; Stuffed Body, Movable Arms and Legs, Silk Bow in Hair; Handsomely Dressed in White with Lace Trimmings; Lace Trimmed White Undergarments, White Stockings with Felt Booties.

Per Dozen
No. 815—Weight per Dozen 24 lbs. **$96 00**
One in a Box

Life Size Doll; Length of Body 18 inches, Length of Dress 30 inches; Life Size Unbreakable Head, With Open Mouth into which can be Fitted Real Rubber Nursing Pacifier, furnished Attached to Cord, Moulded Nose, Natural Hands, Stuffed Body, Movable Arms and Legs, Extra Quality Kid Covered Joints with White and Blue Silk Ribbons; Fine Quality White Lawn Dress, with Lace Trimmings; Long White Underskirt.

Per Dozen
No. 825—Weight per Dozen 32 lbs...**$72 00**
One in a Box

Life Size Doll; Length 18 inches; Unbreakable Head, Moulded Hair, Natural Hands, Stuffed Body; Movable Arms and Legs, White Tied Lace Bonnet with Broad White Silk Ribbons; Fine White Dress, Elaborately Trimmed with High Grade Lace, Trimmed Undergarments; Short White Stockingwith Felt Boots.

Per Dozen
No. 810—Weight per Dozen 28 lbs. **$72 00**
One in Box

DOLLS

Length 16 Inches; Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; White Lace Covered Bonnet with Pink Silk Ribbons; White Cotton Dress, Trimmed with Lace, Short White Stockings with Felt Boots.

Per Dozen
No. 821—Weight per Dozen 21 lbs. ...**$63 00**

One in a Box

Length 18 Inches; Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; White Bonnet Trimmed with Wide White Lace; Lace Trimmed White Cotton Dress; White Stockings with Felt Boots.

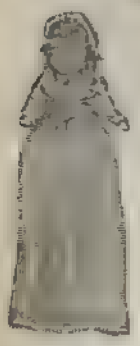
Per Dozen
No. 818—Weight per Dozen 19 lbs...**$60 00**

One in a Box

Length 18 Inches; Large Unbreakable Head; [illegible] Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Lace [illegible] White [illegible] White Underwear, [illegible] White [illegible] with Pink Ribbons; Short White Stockings with Pink Felt Boots.

Per Dozen
No. 819—Weight per Dozen 21 lbs.....**$50 00**

One in a Box



Infant Doll; Length 14½ Inches; Length, Including Dress [illegible], Unbreakable Head, Real Hair, Natural Hands; Movable Arms and Legs, Stuffed Body; Long White Pleated Dress, Trimmed with Lace, Pleated Lace Collar; Lace Trimmed White Bonnet, with Pink Silk Bows and Ties; Long White Petticoat; Pink Edged White Juliet Boots.

Per Dozen
No. 1542 Weight per Dozen 18 Lbs. **$48 00**

One in a Box

Length 10 Inches; Extra Large Unbreakable Head; Natural Curled Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Lace Trimmed White Dress with Pink Silk Ribbon Sash; White Petticoat; White Stockings and Pink Boots.

Per Dozen
No. 614—Weight per Dozen 21 lbs.....**$42 00**

One in a Box

DOLLS

Length 18 Inches; Extra Large Unbreakable Head; Natural Curled Hair; with Pink Silk Bow; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Very Pretty Dress in Watered Silk Effect; White Petticoat; White Stockings, Pink Felt Boots.

Per Dozen
No. 615—Weight per Dozen 21 lbs.....**$42 00**

One in a Box

Length 19 Inches; Extra Large Unbreakable Head; Natural Curled Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs, Pretty Flowered Dress in Watered Silk Effect, Trimmed with Pink; Bonnet to Match Dress, with Pink Ribbons; White Petticoat; White Stockings, Pink Felt Boots.

Per Dozen
No. 616—Weight per Dozen 22 lbs.....**$42 00**

One in a Box

Length 19 Inches; Extra Large Unbreakable Head; Stuffed Curled Hair; Natural Hands; Stuffed Body, Movable Head, Arms and Legs; Well Made Dress with Low Neck Skirt; and Fine Muslin Waist with White Lace; White Petticoat, Dress Bonnet to Match Dress, with Pink Silk Ribbons; White Stockings; Pink Felt Boots.

Per Dozen
No. 617—Weight per Dozen 21 lbs.....**$42 00**

One in a Box

Length 17½ inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body, Movable Head, Arms and Legs, Elaborately Dressed; Blue Coat of Heavy Material; Large Embroidered White Collar and Cuffs; Lace Trimmed Petticoat; Fancy Real Breast-Pin; Full Seamed and Fitted Hat to Match the Coat; White Stockings; Blue Felt Boots.

Per Dozen
No. 618—Weight per Dozen 20 lbs.....**$37.00**

One in a Box

Schoenhut Perfection Wood Doll; Made of All Wood; Steel Hinges and Spring Joints; Extremely Durable; It Cannot be Distinguished from the Finest Bisque Doll Made, and is Indestructible; Jointed at Neck, Shoulders, Elbows, Wrists, Hips, Knees and Ankles in Such Manner that the Doll can be Made to Assume Any Posture Possible with the Human Body and without the Stiff and Unnatural Appearance of Most Dolls.

Length 15 Inches, Pretty Lace Trimmed White Slip; With Metal Stand.

Per Dozen
No. 589—Weight per Dozen 12 lbs. **$38 00**

One in a Box

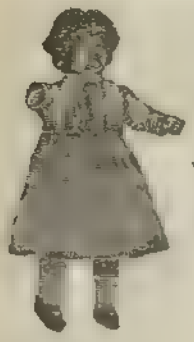
DOLLS

Length 14 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Lace Trimmed White Bonnet with Blue Bow Tie; White Cotton Dress Trimmed with Lace; Felt Boots.

Per Dozen

No. 817—Weight per Dozen 15 lbs.....**$27.00**

One in a Box



Height 14½ Inches; Unbreakable Head; Real Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; White Dress Trimmed with White [illegible] and Blue and White Ribbons; Plain White Petticoat; Short White Stockings; Blue Slippers.

Per Dozen

No. 1456—Weight per Dozen 13 lbs.....**$27.00**

One in a Box

Length 15 Inches; Unbreakable Head; Real Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs, Lace Trimmed White Dress and Petticoat; White Stockings; Blue Slippers.

Per Dozen

No. 1457 Weight per Dozen 11 lbs.....**$27 00**

One in a Box

Dutch Girl; Length 14 inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Felt Costume and Bonnet, in Green, Yellow, Blue and White.

Per Dozen

No. 2065—Weight per Dozen 12 lbs.....**$27.00**

One in a Box

Dutch Boy; Length 14 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Felt Costume and Cap, Orange Trousers with Brown Patches, Blue Blouse with White Collar and Light Patch; Blue Cap with Gray Top.

Per Dozen

No. 2066—Weight per Dozen 12 lbs... **$27 00**

One in a Box

DOLLS

Length 16 Inches; Large Unbreakable Head; Moulded Hair; Wonderfully Animated Expression; Natural Hands; Stuffed Body; Movable Arms and Legs; Dressed in White Pique Trimmed with Persian Rose Design; Becoming Turban to Match; Pink Cork Silk Ribbon Belt; Pink and White Juliet Boots.

Per Dozen

No. 1543—Weight per Dozen 15 lbs. .**$26 40**

One in a Box

Length 16 Inches; Large Unbreakable Head; Moulded Hair; Wonderfully Animated Expression; Natural Hands; Stuffed Body; Movable Arms and Legs; White Pique Norfolk Suit Trimmed with Old Rose; Cap to Match; White Stockings; Pink Slippers.

Per Dozen

No. 1544—Weight per Dozen 16½ lbs... **$26 40**

One in a Box

Length 15 Inches; Unbreakable Head; Wonderfully [illegible] Expression; Moulded Hair; Natural Head, Movable Arms and Legs, Stuffed Body, Well Made Tan Dress with Red Embroidered White Trimmings; Red Silk Cord Belt with Red Pompon Tassels; Tan Turban with Red Pompon Tassels; White Juliet Boots with Pink Edging.

Per Dozen

No. 1541—Weight per Dozen 16 lbs.....**$26 00**

One in a Box

Length 13 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Dressed in White Shirt, Green Overalls, Piped with Red, Felt Shoes, and Green Hat.

Per Dozen

No. 907—Weight per Dozen 15 lbs. **$25 00**

One in a Box

Length 13 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Fancy Lace Trimmed Dress; Felt Shoes; Red Lined, Shaped Hat with Rubber Chin Band.

Per Dozen

No. 906—Weight per Dozen 12½ lbs..... **$25.00**

One in a Box

DOLLS

Baby Bunting Doll; Length 13½ Inches; Height Sitting 10¼ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Movable Arms and Legs; Well Made and Trimmed Romper Suit; White Felt Shoes.

Per Dozen
No. 809—Weight per Dozen 15½ lbs...**$25 00**

One in a Box

Length 14 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; White Dress Trimmed with White Lace; White Lace Trimmed Bonnet with Pink Ties.

Per Dozen
No. 810—Weight per Dozen 15 lbs.....**$25 00**

One in a Box

Oliver Twist Doll; Length 15 Inches; Un-Breakable Head; Moulded Hair, with Cream Colored Silk Bow; Natural Hands; Stuffed Body; Movable Arms and Legs; Green Crepe Dress with White Waist and White Hat; White Canvas Shoes.

Per Dozen
No. 811—Weight per Dozen 15½ lbs...**$25 00**

One in a Box

Campbell Kid Doll; Length 13 Inches; Un-Breakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Delicate Figured Print Cotton Dress with Old Rose Trimming; White Undergarments; Felt Shoes.

Per Dozen
No. 812—Weight per Dozen 15 lbs.....**$25 00**

One in a Box

Campbell Kid Doll; Length 13½ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Striped Rompers with Trimmings to Match, Brown Felt Boots.

Per Dozen
No. 813—Weight per Dozen 15 lbs.... **$25 00**

One in a Box

DOLLS

Daisy Dimple Doll; Length 16 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Blue Waist with White Lace Cuffs and Trimmings; White Crepe Skirt with Figures Designed; White Undergarments; White Shoes.

Per Dozen
No. 814—Weight per Dozen 16 lbs.....**$25 00**

One in a Box

Life Size Doll; Length 21 Inches; Extra Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Pink Check Rompers with Cuffs, Belt and Lace Trimmed Collar to Match.

Per Dozen
No. 600—Weight per Dozen 30 lbs..... **$25 00**

One in a Box

Life Size Doll; Length 21 Inches; Extra Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Attractive Check Pattern Dress with Trimmings to Match.

Per Dozen
No. 601—Weight per Dozen 30 Lbs **$25 00**

One in a Box

Cowboy; Length 14½ inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Elaborately Costumed, with Silk Shirt, Tooled Leather Trousers, Yellow Bandana and Trimmings, Yellow Felt Sombrero; Tan Leather Belt.

Per Dozen
No. 1391—Weight per Dozen 12 lbs....**$23 00**

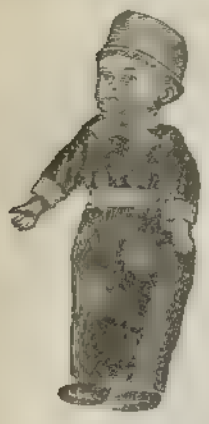
One in a Box

DOLLS

Cow-Girl; Length 14½ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Elaborate Felt Costume; Red Shirt; Yellow Skirt with Yellow Fringe and Trimmings; Yellow Felt Hat; Black Leather Belt.

Per Dozen
No. 1392—Weight per Dozen 13 lbs.....**$23 00**

One in a Box



Dutch Boy; Length 14½ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Felt Costume in Green and Yellow, with Green and Yellow Felt Hat to Match.

Per Dozen
No. 1393—Weight per Dozen 13 lbs....**$23.00**

One in a Box

Dutch Girl; Length 14½ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body, Movable Head, Arms and Legs; Felt Costume in Green and Yellow.

Per Dozen
No. 1394—Weight per Dozen 13 lbs....**$23 00**

One in a Box

Length 14½ Inches; Length, Including Dress, 21 Inches; Unbreakable Head; Moulded Hair; Natural Hands, Stuffed Body; Movable Head, Arms and Legs; Lace Trimmed Dress and Bonnet, with Pink Ribbons, White Petticoat.

Per Dozen
No. 657—Weight per Dozen 15 lbs..... **$21 60**

One in a Box

DOLLS

American Soldier Boy; Length 15 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Felt Costume, Khaki Soldier Suit; Brass Buttons; Black Patent Leather Finish Legging; Soft Felt Hat.

Per Dozen
No. 1395—Weight per Dozen 12 lbs.....**$23 00**

One in a Box

Length 14½ Inches; Unbreakable Head; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Blue Trousers; White Waist with Blue Collar and Cuffs; White Hat; White Stockings and Shoes.

Per Dozen
No. 658—Weight per Dozen 14 lbs....**$21.60**

One in a Box

Length 14½ Inches; Unbreakable Head; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Fancy Dress and Hat to Match; White Stockings and Shoes.

Per Dozen
No. 659—Weight per Dozen 14 lbs.....**$21 60**

One in a Box

Length 15½ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Lace Trimmed Dress in Assorted Check Patterns, with Two Pockets; White Petticoat; Sun Bonnet to Match Dress; White Stockings; Pink Felt Boots.

Per Dozen
No. 608—Weight per Dozen 15 lbs.....**$20.40**

One in a Box

American Navy Boy; Length 15½ inches; Unbreakable Head; Moulded Hair; Natural Hands; Movable Head, Arms and Legs; Stuffed Body; Assorted Blue Sailor Suits and Cap with White Trimming, and White Sailor Suits and Cap with Blue Trimming.

Per Dozen
No. 620—Weight per Dozen 12 lbs.....**$16 50**

One in a Box

DOLLS

American Soldier Boy; Length [illegible] Inches; Unbreakable Head; Moulded Hair, [illegible] Hands; Stuffed Body; Movable Head, Arms and Legs, Real Khaki Army Suit and Hat, Puttees, Black Belt.

Per Dozen
No. 621—Weight per Dozen 12 lbs.....**$16 50**

One in a Box

Length 16 Inches; Large Unbreakable Head, Moulded Hair, Natural Hands; Stuffed Body Movable Arms and Legs; Lace Trimmed White Dress with Blue Jacket Trimmed with Pink Silk Embroidery and Fastened with Fancy Real Breast Pin; White Petticoat; White Lace Trimmed Bonnet with Pink Ribbon Ties; White Stockings; Buckle Boots.

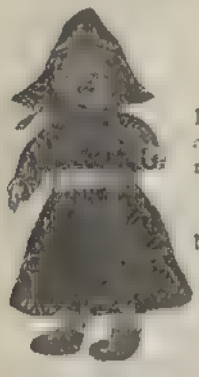
Per Dozen
No. 611—Weight per Dozen 14½ lbs.....**$20 40**

One in a Box

[illegible] Inches; Unbreakable Head, Moulded Hair; Natural Hands; Stuffed Body, Movable Arms and Legs; White Waist, Beautiful Tan Dress of Heavy Material; White Petticoat; White Hat with [illegible] Brim; White Stockings; Blue Felt Shoes.

Per Dozen
No. 612—Weight per Dozen 15 lbs.....**$20 40**

One in a Box



Dutch Girl; Length 12 Inches; Unbreakable Head, Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Felt Costume and Bonnet, in Green, Yellow, Blue, White and Red.

Per Dozen
No. 2063—Weight per Dozen 11 lbs.....**$19 50**

One in a Box

[illegible] Length [illegible] Inches, [illegible] Head, Painted Hair, Natural Hands, Stuffed Body, Movable Head, Arms and Legs; Felt Costume, Blue Trousers with Green Patches; Brown Jacket with Brass Buttons; Red Scarf, Blue Cap with Brown Trimmings.

Per Dozen
No. 2064—Weight per Dozen 10 lbs.....**$19 50**

One in a Box

DOLLS

Length 15 Inches, [illegible] Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Assorted Pink and Blue Dresses in Checks and Stripes.

Per Dozen
No. 606—Weight per Dozen 10½ lbs.....**$15 00**

One Dozen in a Box

Length [illegible] Inches Unbreakable Head; Moulded [illegible] Natural Hands; Stuffed Body; Movable Head, Arms and Legs, Handsome Cherry Colored Dress of Good Material, Well Trimmed; White Petticoat; White Stockings; Blue Felt Boots; Two Toned Colored Hat to Match Dress.

Per Dozen
No. 609—Weight per Dozen 15 lbs.....**$20 40**

One in a Box

Length 16 Inches, [illegible] Head, Moulded Hair; Natural Hands; [illegible], Movable Arms and Legs; Handsome Blue and White Two Piece Sailor Dress with Belt and Hat to Match; White Petticoat; White Stockings; Blue Felt Boots.

Per Dozen
No. 610—Weight per Dozen 15 lbs.....**$20 40**

One [illegible] Box

Length 16 Inches; Extra Large Unbreakable Head; Moulded Hair, Natural Hands; Stuffed Body; Moulded [illegible] Legs; White Rompers with Pink Dots, Belt and Hair Ribbons to Match; White Short and Fitted Capes of Pink and, White Stockings; Pink Felt Boots

Per Dozen
No. 613—Weight per Dozen 15 lbs..... **$20 40**

One in a Box

Length 16 Inches; Unbreakable Head; Moulded Hair, Natural Hands; Stuffed Body, Movable Head, Arms and Legs; Assorted Rompers in Blue and Pink, Stripes and Checks.

Per Dozen
No. 607—Weight per Dozen 10[illegible] lbs.. **$15 00**

One Dozen in a Box

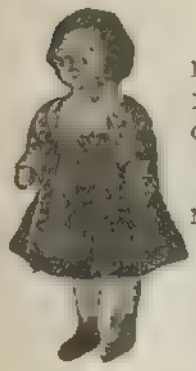
DOLLS

Campbell Kid Doll. Length 12 inches. Unbreakable Head; Moulded Hair; Stuffed Body; Movable Arms and Legs; Dressed in Rompers of Assorted Patterns in Checks and Stripes.

Per Dozen

No. 801—Weight per Dozen 7½ lbs $13 50

Quarter Dozen in a Box



Campbell Kid Doll; Length 12 inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Assorted Fancy Dresses in Checks and Stripes.

Per Dozen

No. 802—Weight per Dozen 8 lbs.....$13.50

Quarter Dozen in a Box

Campbell Kid Doll; Length 10½ inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Dressed in White Rompers Trimmed with Red.

Per Dozen

No. 803—Weight per Dozen 7 lbs ... $13 50

Quarter Dozen in a Box

Length 10½ inches; Length, Including Dress, 17½ inches; Unbreakable Head; Moulded Hair, Natural Hands; Stuffed Body; Movable Arms and Legs, Plain Long White Dress.

Per Dozen

No. 804—Weight per Dozen 7½ lbs..... $13.50

Quarter Dozen in a Box

22 inches; Extra Large Unbreakable Hea Moulded Hair, Stuffed Body; Movable Arms and Legs; Lace Trimmed White Gown.

Per Dozen

No. 656—Weight per Dozen 16½ lbs...$13.50

One in a Box

DOLLS

Length 12 inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Dressed in Assorted Colors in Checks and Plaids, with Trimmings to Match.

Per Dozen

No. 806—Weight per Dozen 7 lbs.. .....$13 50

Quarter Dozen in a Box

Length 17½ inches; Large Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Dressed in Checked Rompers Trimmed to Match.

Per Dozen

No. 654—Weight per Dozen 15 lbs.....$13.50

Half Dozen in a Box

Length 17 inches; Extra Large Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms, and Legs; Lace Trimmed Pink Check Dress Trimmed with Blue.

Per Dozen

No. 655—Weight per Dozen 16½ lbs .$13.50

Half Dozen in a Box

Candy Kid Doll, Length 12 inches; Unbreakable Head; Moulded Hair, Natural Hands; Stuffed Body, Movable Arms and Legs; Dressed in Blue Striped Rompers Trimmed with Blue.

Per Dozen

No. 805—Weight per Dozen 7½ lbs.....$13 50

Quarter Dozen in a Box

Length 11 Inches; Unbreakable Head; Real Natural Hair; Natural Hands; Stuffed Body; Movable Head Arms and Legs; Plain White Dress.

Per Dozen

No. 1455—Weight per Dozen 6 lbs.....$16.50

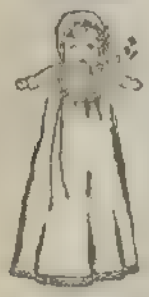
One Dozen in a Box

DOLLS

Spearpoint Talking Doll; Height 13 Inches; Stuffed Head, with Unbreakable Celluloid Face; Hollow Body, with Talking Chamber; Stained Wood Legs and Feet; Green Costume, Brass Buttons; Loose Animated Arms, with Gilt Tip Spear.

Per Dozen
No. 1525—Weight per Dozen 6 lbs.....$12 00

One in a Box



Crying Doll; Length 8 Inches, Including Dress 11½ Inches; Stuffed Head with Celluloid Face; Hollow Body with Talking Chamber at Back; White Long Dress Trimmed with White Lace and Pink Ribbons and Bows; Loose Animated Arms.

Per Dozen
No. 1623—Weight per Dozen 10½ lbs.....$12 00

One in a Box

Crying Doll; Length 10¾ Inches; Stuffed Head with Celluloid Face; Hollow Body, with Talking Chamber; Stained Wood Legs and Feet; Assorted Fancy Costumes, with Bonnets to Match; Loose Animated Arms with White Mittens.

Per Dozen
No. 1625—Weight per Dozen 6 lbs..... $12 00

One in a Box

Length 11½ inches; Unbreakable Head Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs.

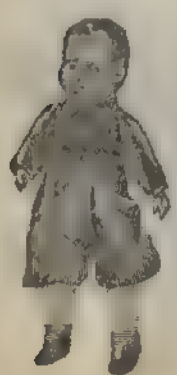
Per Dozen
No. 601—Plaid Dress; with Lace Trimmed White Waist; Weight per Dozen 7 lbs.....$11 00

No. 602—Blue Checked Dress, with Lace Trimmed White Waist, Weight per Dozen 7 lbs ..11 00

No. 603—Brown Checked Dress, with Lace Trimmed White Waist; Weight per Dozen 7 lbs.. 11 00

No. 604—Pink Checked Dress, with Lace Trimmed White Waist; Weight per Dozen 7 lbs. 11 00

Sixth Dozen in a Box



Length 12 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Dressed in Rompers of Assorted Colors and Designs.

Per Dozen
No. 605—Weight per Dozen 6 lbs.....$11 00

Sixth Dozen in a Box

DOLLS

Length 14 Inches; Large Unbreakable Head, Moulded Hair; Stuffed Body; Natural Hands; Movable Head, Arms and Legs; Dressed in Rompers of Assorted Attractive Patterns.

Per Dozen
No. 651—Weight per Dozen 15 lbs.....$10 00
Half Dozen in a Box

Length 14 Inches; Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Dressed in Assorted Attractive Patterns, Lace Trimmed.

Per Dozen
No. 652—Weight per Dozen 15 lbs.....$10 00
Half Dozen in a Box

Length 14 Inches; Large Size Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Lace Trimmed White Dress.

Per Dozen
No. 653—Weight per Dozen 12 lbs.....$10 00
Half Dozen in a Box

Length 14 Inches; Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Blue Checked Dress, with Pink Trimming; Black Belt

Per Dozen
No. 1385—Weight per Dozen 12 lbs..... $8 50
One Dozen in a Box

Length 14 Inches; Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Lavender Striped Rompers with Red Trimmed Collar; Black Belt.

Per Dozen
No. 1386—Weight per Dozen 12 lbs. $8 50

One Dozen in a Box

DOLLS

Talking Doll; Length 8¼ Inches; Stuffed Head with Celluloid Face; Hollow Body, with Talking Chamber; Stained Wood Legs and Feet; Assorted Dresses with Bonnet to Match.

Per Dozen
No. 1026—Weight per Dozen 2 lbs..... **$6 00**

One in a Box

Length 10½ Inches; Large Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Dressed in Assorted Colors in Checks and Stripes.

Per Dozen
No. 1453—Weight per Dozen 7 lbs..... **$5 50**
Two Dozen in a Box

Large Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Dressed in Rompers of Assorted Colors and Patterns.

Per Dozen
No. 1454—Weight per Dozen 8¼ lbs..... **$5 50**
Two Dozen in a Box

Length 12½ Inches; Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Rompers in Stripes and Assorted Colors.

Per Dozen
No. 1381—Weight per Dozen 4¾ lbs.. **$5 00**
One Dozen in a Box

Length 12½ Inches; Unbreakable Head; Painted Hair; Stuffed Body; Movable Head, Arms and Legs; Dresses in Assorted Colors and Patterns.

Per Dozen
No. 1382—Weight per Dozen 4¾ lbs.. **$5.00**

One Dozen in a Box

DOLLS

Length 10½ Inches; Unbreakable Head; Painted Hair; Movable Arms and Legs; Stuffed Body; Rompers in Assorted Plaids and Checks.

Per Dozen
No. 662—Weight per Dozen 4 lbs..... **$5 00**
One Dozen in a Box

Length 10½ Inches; Unbreakable Head; Painted Hair; Stuffed Body; Movable Arms and Legs; Dressed in Fancy Assorted Plaids and Checks with Belt to Match.

Per Dozen
No. 663—Weight per Dozen 4 lbs. **$5 00**
One Dozen in a Box

Length 10½ Inches; Length, Including Dress, 13½ Inches; Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Long White Gown with Lace and Pink Collar.

Per Dozen
No. 664—Weight per Dozen 4¼ lbs..... **$5 00**
One Dozen in a Box

Length 10½ inches; Small Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Dressed in Assorted Colors and Patterns of Checks and Stripes.

Per Dozen
No. 1451—Weight per Dozen 7 lbs..... **$4.50**
Two Dozen in a Box

Length 10½ Inches; Small Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Rompers in Assorted Colors and Designs.

Per Dozen
No. 1452—Weight per Dozen 7 lbs..... **$4 50**
Two Dozen in a Box

Jack in the Box

Handsomely Illuminated Box, 3¾x3¾x3¾ Inches; with Musical Doll which Arises to 5¾ Inches High on Releasing Cover. Stuffed Head, with Unbreakable Celluloid Face; Black and White Checked Bonnet; Fancy Flowered Costume with White Ruff.

Per Dozen
No. 1037—Weight per Dozen 3 lbs..... **$5.00**

One in a Package

FOR 25 YEARS RUGBY BICYCLES HAVE BEEN THE QUALITY LINE OF AMERICA

*RUGBY BICYCLES

BIMOCYCLE MODEL 1917

"ORIGINATED BY US"

THE QUALITY ALWAYS THE SAME NOTWITHSTANDING THE PRICE

This is the Best Looking Bicycle ever Produced, that has the Appearance of a Real Motorcycle. Special Attention is called to the Truss Frame Construction, which is a Big Feature that is Patented. The Illustration shows the Regular 20, 22 and 24 inch Frame to 18, 20 and 24 inches respectively, but we will furnish these sizes 21, 23 and 24 instead of 18, 20 and 22 inches, which are their actual measurements.

We call Special Attention to the Possibilities of the 20 inch Frame, which can be Ridden by the Boy who is just at the age when he wants the most elaborate Bicycle. In the past this Boy has been Forced to Ride an 18 inch Juvenile with 26 inch Wheels. He can now ride the **20 inch Rugby Bimocycle with Full Size (28 inch) Wheels and Feel that he has a "Grown-up" Mount.**

Good Service "Oil Proof" Interlocking Red Diamond Tread Tires are used on this Bicycle. A Very High Grade Tire.

The Double Diamond Cups Grip the Slippery Places, Preventing Skidding and Protect the Rider Against Accidents.

SPECIFICATIONS

Bearings—Balls: 9/32 inch in Head; 9/16 inch in Hanger; ¼ inch in Rear Hub; 9/16 inch in Front Hub.

Chain—Roller or Block, 5/16 inch; 1 inch Pitch.

Connections—Double Plate Arch Fork Crown, Forged Seat Post; Cluster Bolt and Nut Fastening.

Crank Hanger—Genuine Rugby, One Piece; 7 inch Diamond Cranks; Highly Nickeled.

Enamel—Four Coats, Hand Polished; Special Ivory Gray with Maroon Hair Line Stripes.

Frame—18, 20 and 22 inch; 1 inch, 18-Gauge English High Carbon Seamless Tubing.

Handle Bar—No. MB2 Motorcycle Style; No. 20B Grips.

Hubs—Turned from Solid Stock; Tool Steel Cones and Cups.

Pedals—Square Checkered Rubbers.

Rims—One Piece, Rock Elm; Enameled to Match; Aluminum Finished with Blue and Red Hair Line Stripes.

Saddle—No. 25R Rugby Motor Bike Style.

Spokes—14-16 Gauge.

Sprockets—26 Tooth Front, 9 Tooth Rear; 5/16 in.

Tool Bag—No. 12; Contains Wrench and Pump.

Pump—No. 1H Hand.

Wheels—28 inch.

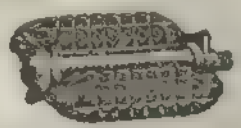
Wheel Base—44 inches.

Mud Guards—Drop Side Motorcycle Style Front and Rear; Enameled to Match Frame; Mud Flap on Front Guard.

Tires—No. 70 Good Service.

Motorcycle Stand—Drop Forged Channel; Steel; Can be Raised or Lowered with Foot; Locks Automatically. Also Can be Locked with Padlock when Stationary.

Cut Shows No. 20B Motor Style Rubber Grip, 7 inches Long. These Grips Give Absolute Control Over the Steering at all Times. No Danger of Slipping Out of the Hands on Uneven Roads.



Pedals are Extra Large and are Equipped with Square Checkered Rubbers, Giving a Firm Foothold on Rough Roads. Ball Bearing Throughout. Made of Steel, Nickel Plated.

No. 8 Tool Bag, with Wrench and Pump.

COMPLETE BICYCLES

	Each
No. 650GC—With Coaster Brake.....	$62 50
No. 5650GC—Same as above, except with No. 90 Rugby G. & J. Chainless Tires.....	65 50
No. 9650GC—3028 Good Service Tires, 25R Saddle, R21 Bars 20B Grips, 20 Pedals.....	60.50
No. 0650GC—Same as No. 650GC with Coaster Brake	59 00

One in a Crate; Average Wt. Crated 60 lbs.

FOR 25 YEARS RUGBY BICYCLES HAVE BEEN THE QUALITY LINE OF AMERICA

*RUGBY BICYCLES

BIMOCYCLE MODEL 1917

"ORIGINATED BY US"

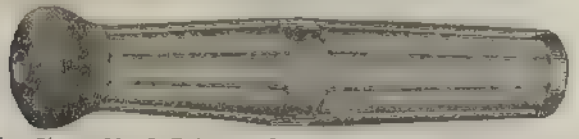
THE QUALITY ALWAYS THE SAME NOTWITHSTANDING THE PRICE

This is the Best Looking Bicycle ever Produced, that has the appearance of a real Motorcycle. Special Attention is called to the Truss Frame Construction, which has a drop of two inches at the rear end. This drop reduces the Regular 20, 22 and 24 inch Frame to 18, 20 and 22 inches, Respectively, but we will call the Frames 20, 22 and 24 instead of 18, 20 and 22 inches, which are their actual measurements.

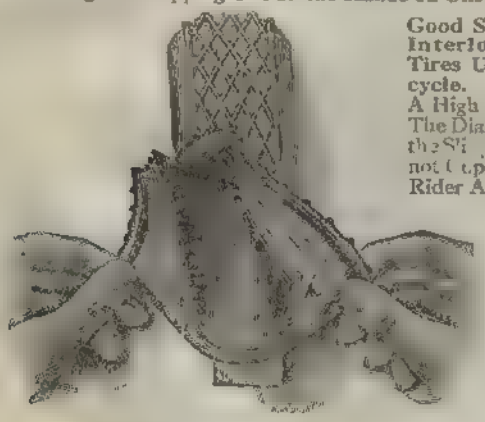
We call Special Attention to the Possibilities of the 20 inch Frame, which can be Ridden by the Boy who is just at the age when he wants the most Elaborate Bicycle. In the past this Boy has been Forced to Ride an 18 inch Juvenile with 28 inch Wheels. He can now ride the 20-inch **Rugby Bimocycle** with Full Size (28 inch) Wheels and Feel that he has a "Grown-up" Mount.

SPECIFICATIONS

Bearings—Balls ⅝ inch in Head; ⅝ inch in Hanger; ¼ inch in Rear Hub; ⅜ inch in Front Hub.
Chain—Roller or Block; ½ inch; 1 inch Pitch.
Connections—Double Plate Arch Fork Crown, Nickel Plated; Forged Seat Post; Cluster Bolt and Nut Fastening.
Crank Hanger—Genuine Rugby One Piece; 7 inch Diamond Cranks; Highly Nickeled.
Enamel—Four Coats, Hand Polished; Special Rugby Motorcycle Crimson Red.
Frame—18, 20 and 22 inch; 1 inch, 18 Gauge English High Carbon Seamless Tubing.
Handle Bar—No. MB2 Motorcycle Style; No. 20B Grips.
Hubs—Turned from Solid Stock; Tool Steel Cones and Cups.
Pedals—Square Checkered Rubbers.
Rims—One Piece, Rock Elm; Enameled Black with Red Center and Two Gold Hair Line Stripes.
Saddle—No. 23R Rugby Easy Motor Style.
Spokes—14-16 Gauge.
Sprockets—26-Tooth Front, 9-Tooth Rear; ½ inch.
Tool Bag—No. 12 Contains Wrench and Pump.
Pump—Hand No. 1H.
Wheels—28 inch.
Wheel Base—44 inches.
Mud Guards—Drop Side Motorcycle Style, Front and Rear; Enameled to Match Frame.
Tires—No. 70 Good Service.
Motorcycle Stand—Drop Forged Channel Steel; Can be Raised or Lowered with Foot; Locks Automatically; Also can be Locked with Padlock when stationary.



Cut Shows No. 20B Motor Style Rubber Grip, 6 inches Long. These Grips give Absolute Control Over the Steering at All Times. No Danger of Slipping Out of the Hands on Uneven Roads.



Good Service Diamond Interlocking Tread Tires Used on this Bicycle.
A High Grade Tire.
The Diamond Tread Grips the Slippery Places but will not Cup. This Makes the Rider Absolutely Safe.

Pedals are Extra Large and are Equipped with Square Checkered Rubbers, Giving a Firm Foothold on Rough Roads; Ball Bearing Throughout; Made of Steel, Nickel Plated.

No. 12 Tool Bag, with Wrench and Pump.

COMPLETE BICYCLES

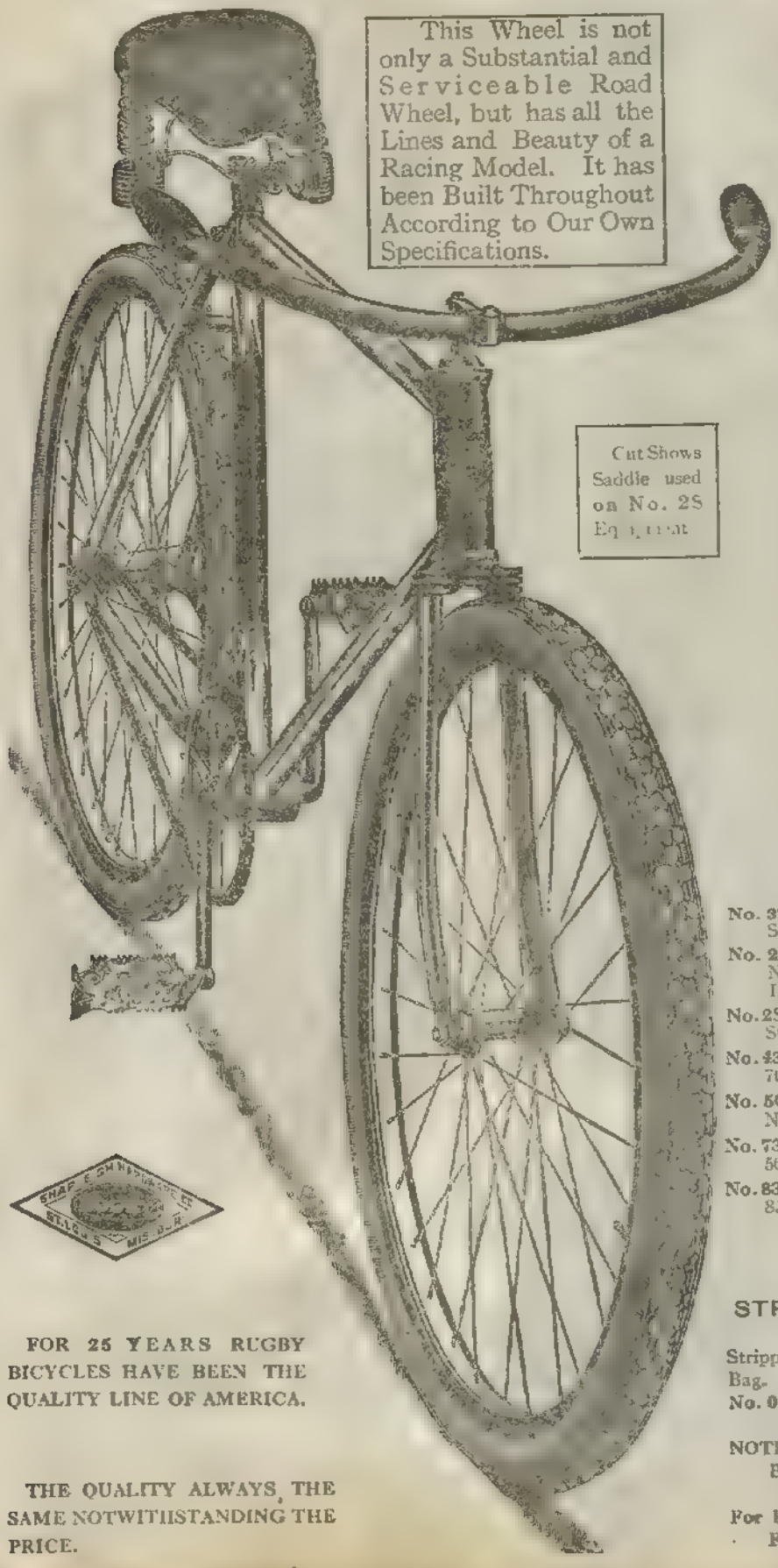
	Each
No. 050RC—With Coaster Brake	$62.50
No. 5050RC—Same as No. 050RC except with No. 91 Rugby Cr. & L. Cl. Tires	65.50
No. 9050RC—No. 7 Equipment with No. 3028 Good Service Tires, 28" Saddle, R24 Bar, 20½" Frame, 20" Wheels	60.50
No. 0650RC—Stripped with a Coaster Brake	51.00

One in Crate. Average Weight Crated 60 lbs.

*RUGBY BICYCLES

MEN'S ROAD MODEL

"ORIGINATED BY US"



This Wheel is not only a Substantial and Serviceable Road Wheel, but has all the Lines and Beauty of a Racing Model. It has been Built Throughout According to Our Own Specifications.

Cut Shows Saddle used on No. 2S Equipment

FOR 25 YEARS RUGBY BICYCLES HAVE BEEN THE QUALITY LINE OF AMERICA.

THE QUALITY ALWAYS, THE SAME NOTWITHSTANDING THE PRICE.

SPECIFICATIONS ON REGULAR MODEL

Bearings—Balls: 5-32 inch in Head; 5-16 inch in Hanger; ¼ inch in Rear Hub; 3-16 inch in Front Hub.

Chain—½ inch Roller.

Connections—Triple Plate Arch Fork Crown, Nickel Plated; Forged Seat Post, Cluster Bolt and Nut Fastening.

Front Fork—Enameled to Match Frame, with Nickel Plated Reinforced Rib.

Crank Hanger—Genuine Rugby One-Piece; 7 inch Diamond Cranks; Highly Polished.

Enamel—Color: Blue with Black Head and Seat Post Mast.

Frame—20, 22 and 24 inch; One inch, Eighteen Gauge English High Carbon Seamless Tubing Throughout.

Handle Bar—No. RER Rugby Extension; No. 30R Corrugated Rubber Grips.

Hubs—Turned from Solid Bar Stock; Tool Steel Cones and Cups.

Pedals—Rat Trap.

Rims—One-Piece Rock Elm; Enameled and Striped to Match Frame.

Saddle—No. 052RC Rugby with Universal Cushion Springs.

Spokes—14-16 Gauge.

Sprockets—26 Tooth Front, 9 Tooth Rear; 3-16 inch.

Tool Bag—No. 12; Contains Wrench and Pump.

Wheels—28 inch.

Wheel Base—43 inches.

Weight Stripped—17 Pounds.

COMPLETE BICYCLES

		Each
No. 376BC—Regular (See above Description) No. 3028 Good Service Single Tube Tires		$55.00
No. 2A376BC—No. 2A Guaranteed Equipment; No. 3028 Good Service Non-Skid Single Tube Tires	See Pages 2922 and 2923	54.50
No. 2S376BC—Guaranteed Equipment; No. 4028 Stimulator Non-Slip Single Tube Tires		58.00
No. 4376BC—No. 4 Guaranteed Equipment; No. 7028 Good Service Single Tube Tires		60.00
No. 5C376BC—No. 5C Guaranteed Equipment; No. 90 Rugby Clincher Tires		62.00
No. 7376BC—No. 7 Guaranteed Equipment; No. 56 Rugby Tough Tread Tires		59.00
No. 8376BC—No. 8 Guaranteed Equipment; No. 85 Speeder Clincher Tires		58.50

One in a Crate; Average Weight Crated, 50 lbs.

STRIPPED BICYCLES WITH COASTER BRAKE

Stripped Means Without Tires, Saddle, Pedals, Handle Bar or Tool Bag.

Each

No. 0376BC—With Coaster Brake $44.00

Each

NOTE—Above Prices Include Coaster Brake; If no Coaster Brake is Wanted ..... Deduct $1.25

Per Pair

For Front and Rear Mud Guards, Enameled to Match Frame ..... Add $2.50

FOR 25 YEARS RUGBY BICYCLES HAVE BEEN THE QUALITY LINE OF AMERICA

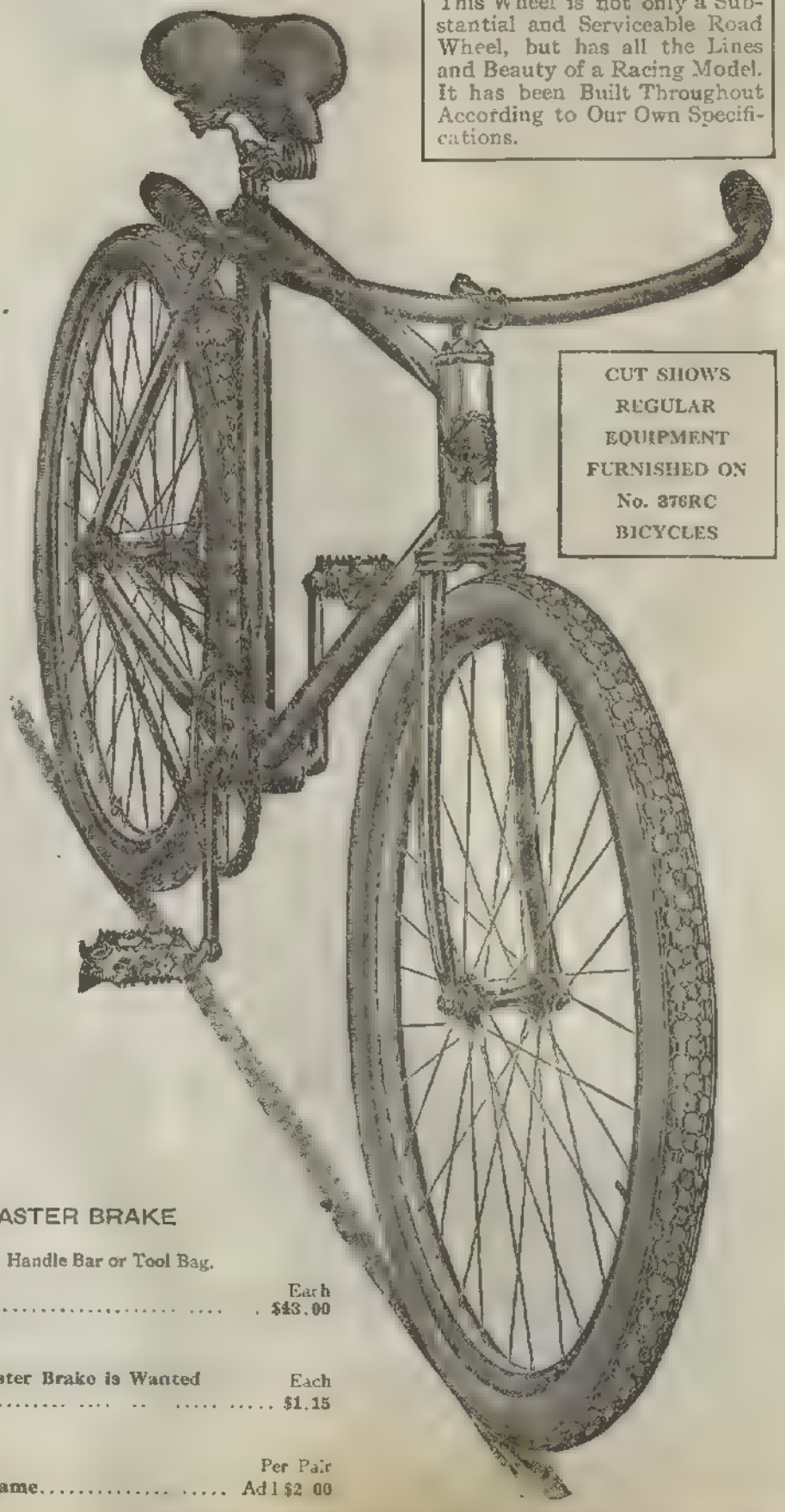
*RUGBY BICYCLES

MEN'S ROAD MODEL

"ORIGINATED BY US"

THE QUALITY ALWAYS THE SAME NOTWITHSTANDING THE PRICE

This Wheel is not only a Substantial and Serviceable Road Wheel, but has all the Lines and Beauty of a Racing Model. It has been Built Throughout According to Our Own Specifications.



CUT SHOWS REGULAR EQUIPMENT FURNISHED ON No. 376RC BICYCLES

SPECIFICATIONS ON REGULAR MODEL

Bearings—Balls: 5-32 inch in Head; 5-16 inch in Hanger; ¼ inch in Rear Hub; 3-16 inch in Front Hub.

Chain—3-16 inch Roller Chain.

Connections—Triple Plate Arch Fork Crown, Nickel Plated; Forged Seat Post; Cluster Bolt and Nut Fastening.

Front Fork—Enameled to Match Frame, with Nickel Plated Reinforced Rib.

Crank Hanger—Genuine Rugby One-Piece; 7 inch Diamond Cranks; Highly Nickeled.

Enamel—Color: Red with White Head and Seat Post Mast.

Frame—20, 22 and 24 inch; One inch, Eighteen Gauge English High Carbon Seamless Tubing Throughout.

Handle Bar—No. RER Rugby Extension; No. 30R Rugby Corrugated Rubber Grips.

Hubs—Turned from Solid Bar Stock; Tool Steel Cones and Cups.

Pedals—Rat Trap.

Rims—One-Piece, Rock Elm; Enameled and Striped to Match Frame.

Saddle—No. 052RC Rugby with Universal Cushion Springs.

Spokes—14-16 Gauge.

Sprockets—26 Tooth Front, 9 Tooth Rear; 3-16 inch.

Tool Bag—No. 12; Contains Wrench and Pump.

Wheels—28 inch.

Wheel Base—43 inches.

Weight Stripped—17 lbs.

COMPLETE BICYCLES

		Each
No. 376RC—**Regular** (See above); No. 3028 Good Service Single Tube Tires		$55 00
No. 2A376RC—No. 2A Guaranteed Equipment; No. 3028 Good Service Non-Skid Single Tube Tires		54 50
No. 2S376RC—No. 2S Guaranteed Equipment; No. 3028 Standard No Slip Single Tube Tires		58 00
No. 4376RC—No. 4 Guaranteed Equipment; No. 7028 Good Service Single Tube Tires	See Pages 9222 and 2923	60 00
No. 5C376RC—No. 5C Guaranteed Equipment; No. 90 Rugby Clincher Tires		62 00
No. 7376RC—No. 7 Guaranteed Equipment; No. 55 Rugby Tough Tread Tires		59 00
No. 8376RC—No. 8 Guaranteed Equipment; No. 85 Speeder Clincher Tires		58.50

One in a Crate; Average Weight Crated 50 lbs.

STRIPPED BICYCLES WITH COASTER BRAKE

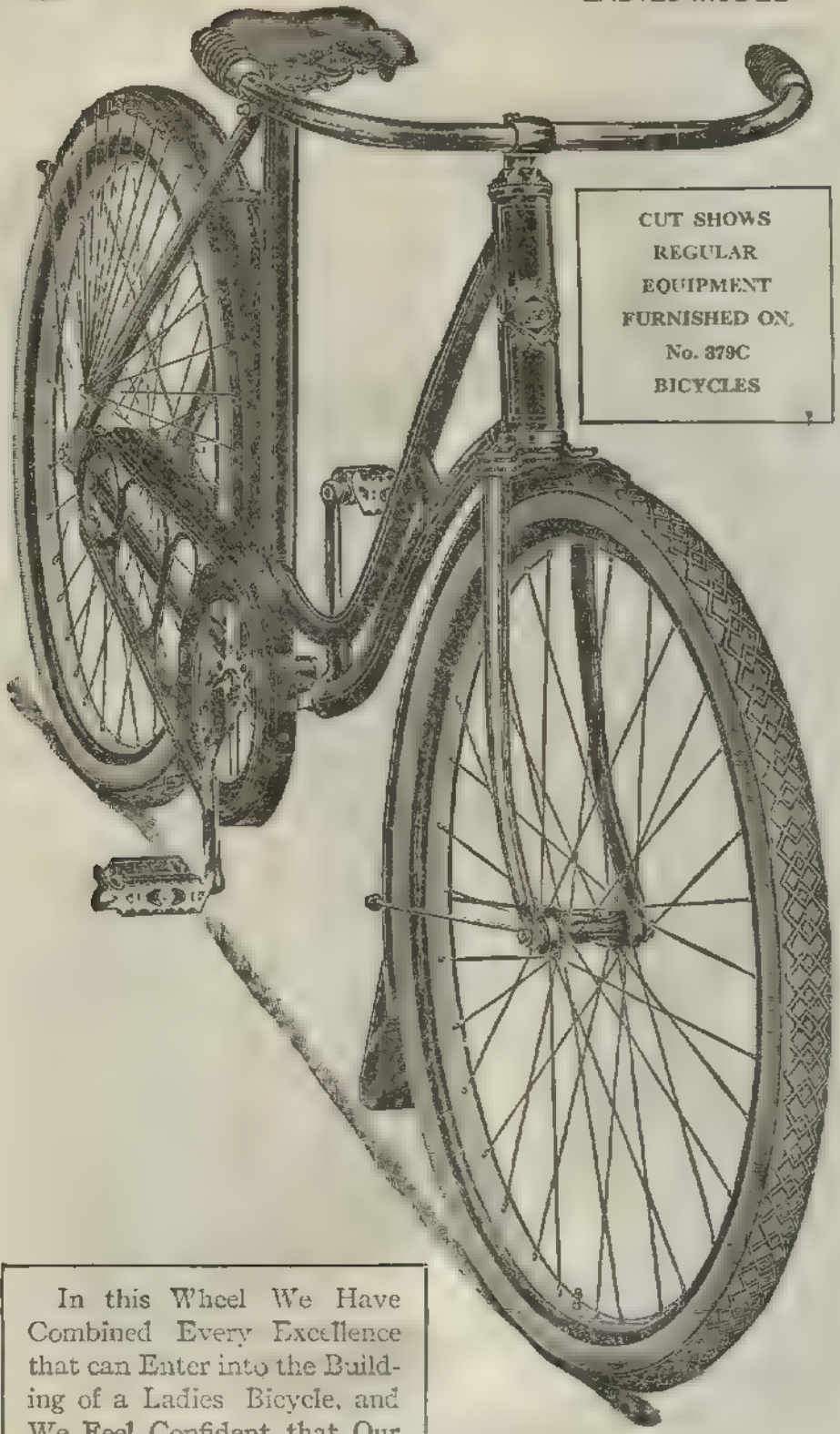
Stripped Means Without Tires, Saddle, Pedals, Handle Bar or Tool Bag.

	Each
No. 0376RC—With Coaster Brake	$43.00

	Each
NOTE—Above Prices Include Coaster Brake; If No Coaster Brake is Wanted Deduct	$1.15

	Per Pair
For Front and Rear Mud Guards, Enameled to Match Frame	Ad l $2 00

*RUGBY BICYCLES
LADIES MODEL



CUT SHOWS REGULAR EQUIPMENT FURNISHED ON No. 379C BICYCLES

In this Wheel We Have Combined Every Excellence that can Enter into the Building of a Ladies Bicycle, and We Feel Confident that Our No. 379C Series Rugby is Unsurpassed. The Frame is Especially Designed to Give the Highest Possible Rigidity and at the same time Retain the Easy Running Qualities.

SPECIFICATIONS ON REGULAR MODEL

Bearings—Balls: 5-32 inch in Head; 5-16 inch in Hangers ¼ inch in Rear Hub; 3-16 inch in Front Hub.
Chain—3-16 inch, Block Chain.
Connections—Triple Plate Arch Fork Crown, Nickel Plated; Forged Seat Post. Cluster Bolt and Nut Fastening.
Front Fork—Enameled to Match Frame Design, with Reinforced Nickel Plated Rib.
Crank Hanger—Genuine Rugby One Piece; 7 inch Diamond Cranks, Highly Nickeled.
Enamel—Four Coats, Hand Polished; Rugby Green with Green and Red Hair Line Stripes.
Frame—20 inch; One Inch, Eighteen Gauge English High Carbon Seamless Tubing Throughout.
Guards—Steel Front, Rear and Chain Guards; 8 inch Leather Flap on Front Guard; are Light and Graceful, can be Easily Detached; Being Fastened to the Frame by an Ingenious Device, they Cannot Work Loose.
Handle Bar—No. RA Rugby; No. 30R Corrugated Rubber Grips.
Hubs—Turned from Solid Bar Stock; Tool Steel Cones and Cups.
Pedals—Bridgeport, with Rubbers.
Rims—One-Piece, Rock Elm, Enameled and Striped to Match Frame.
Saddle—No. 07RC Rugby.
Spokes—14-16 Gauge.
Sprockets—26 Tooth Front, 9 Tooth Rear; 3-16 inch.
Tool Bag—No. 3; Contains Wrench and Pump.
Wheels—28 inch.
Wheel Base—44 inches.
Weight Stripped—22 pounds.

COMPLETE BICYCLES

	Each
No. 379C—Regular (See above Description); No. 7028 Good Service Single Tube Tires	$59 00
No. 1379C—No. 1 Guaranteed Equipment; No. Y-Yale Corrugated Tread Single Tube Tires	55.00
No. IX379C—No. IX Guaranteed Equipment; No. 4028 Stimulator Non-Slip Single Tube Tires	58 00
No. 2G379C—No. 2G Guaranteed Equipment; No. 3028 Good Service Non-Skid Single Tube Tires	60 00
No. 2S379C—No. 2S Guaranteed Equipment; No. 4028 Stimulator Non-Slip Single Tube Tires	61 00
No. 2A379C—No. 2A Guaranteed Equipment; No. 3028 Good Service Non-Skid Single Tube Tires	58 00
No. 5C379C—No. 5C Guaranteed Equipment; No. 90 Rugby Clincher Tires	65 00
No. 7379C—No. 7 Guaranteed Equipment; No. 56 Rugby Tough Tread Tires	62 00
No. 8379C—No. 8 Guaranteed Equipment; No. 85 Speeder Clincher Tires	61.50

See Pages 2922 and 2923

One in a Crate; Average Weight Crated 55 lbs.

STRIPPED BICYCLES WITH COASTER BRAKE

Stripped Means Without Tires, Saddle, Pedals, Handle Bar or Tool Bag

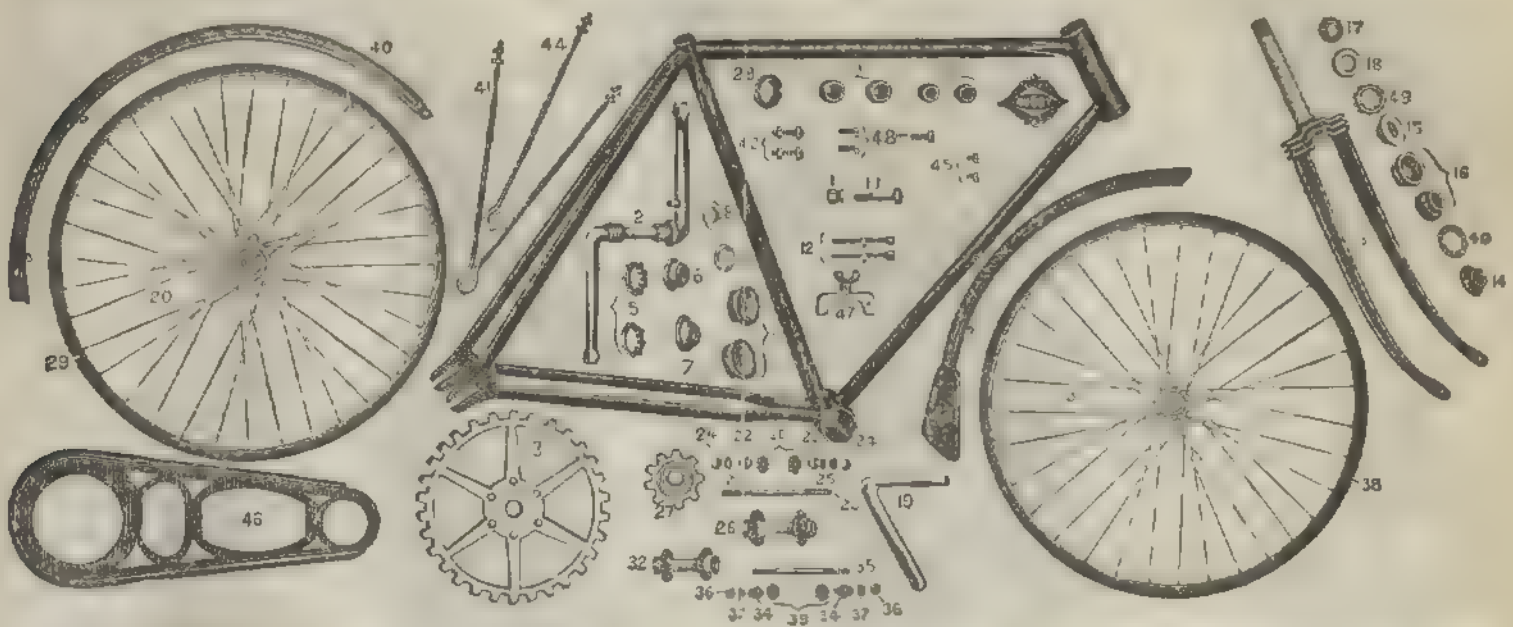
	Each
No. 6379C—With Coaster Brake	$49 00

NOTE—Above Prices Include Coaster Brake; If No Coaster Brake is Wanted, Deduct 1.15

FOR 25 YEARS RUGBY BICYCLES HAVE BEEN THE QUALITY LINE OF AMERICA
THE QUALITY ALWAYS THE SAME NOTWITHSTANDING THE PRICE

EXTRA BICYCLE PARTS

NOTE—WHEN ORDERING THESE PARTS ALWAYS SPECIFY NUMBER OR NAME OF MODELS IN ADDITION TO NUMBER OF PARTS WANTED.



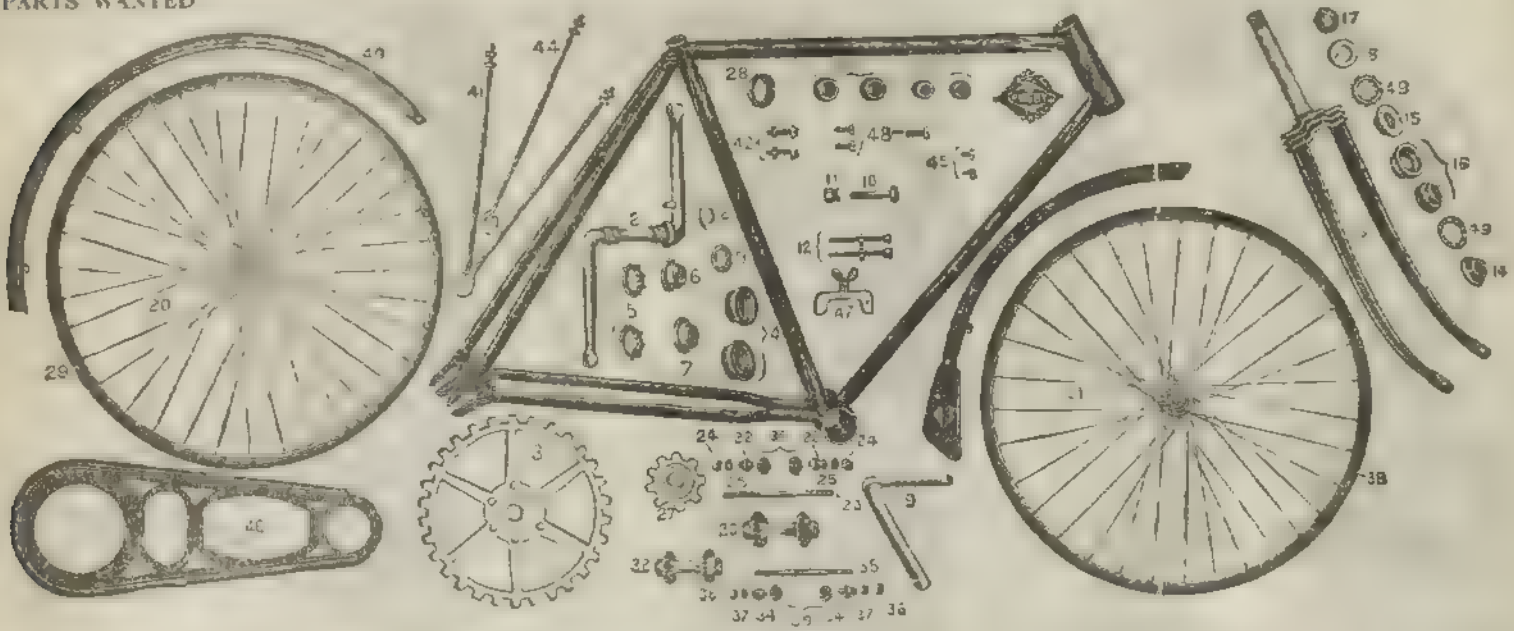
MODEL	650	570	370	300	Boys' Juvenile	Girls' Juvenile	385
Nos. Frame and Head Group	Each	Each	Each	Each	Each	Each	Each
1—Frame, less All Parts; Weight 7 lbs., Specify Color and Size	$15.50	$15.50	$17.50	$15.50	$14.50	$16.00	$10.00
10—Frame Bolt, For Binding Seat Post, Wt. 1 oz.	Per Set $0.30	Per Set $0.30	Per Set $0.30	Per Set $0.30	Per Set $0.30	Per Set $0.30	Per Set $0.30
12—Chain Adjuster, Wt. 1 oz.	Each $0.16	Each $0.16	Each $0.16	Each $0.16	Each $0.16	Each $0.16	Each $0.16
13—Front Fork, Wt. 2 lbs., Specify Color and Size of Frame	6.50	5.00	5.00	5.00	4.70	4.70	5.00
14—Lower Head Cone (Stationary) Wt. ½ oz.	.24	.24	.24	.24	.24	.24	.24
15—Upper Head Cone, Adjusting, Wt. 1 oz.	.28	.28	.28	.28	.28	.28	.28
16L—Lower Head Ball Cup, Wt. 1 oz.	.28	.28	.28	.28	.28	.28	.28
16U—Upper Head Ball Cup, Wt. 1 oz.	.28	.28	.28	.28	.28	.28	.28
17—Head Lock Nut, Wt. 1 oz.	.36	.36	.36	.36	.36	.36	.36
18—Head Lock Nut Washer, Wt. ½ oz.	.10	.10	.10	.10	.10	.10	.10
43—Head Ball Retainer, Without Balls, Wt. 1 oz.	.14	.14	.14	.14	.14	.14	.14
19—Seat Post, Complete, Wt. 11 oz.	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Crank Hanger Group							
02—Crank Hanger, Complete, Wt. 1 lbs. 12 ozs.	6.00	3.00	6.00	6.00	6.00	6.00	6.00
2—Cranks, Wt. 1½ lbs.	3.00	3.00	3.00	3.00	3.00	3.00	2.30
3—Left Sprocket, Wt. 14 ozs., Specify number of teeth	2.50	2.50	2.50	2.50	2.50	2.50	2.50
4—Hanger Ball, Wt. 1 oz., Two to Set	32	32	32	32	32	32	32
5—Hanger Ball Retainer, Without Balls, Wt. 1 oz., Two to Set	.22	.22	.22	.22	.22	.22	.22
6—Hanger Stationary Cone, Wt. 2 ozs.	.40	.40	.40	.40	.40	.40	.40
7—Hanger Adjusting Cone, Wt. ½ oz.	.40	.40	.40	.40	.40	.40	.40
8—Hanger Lock Nut, Wt. 1 oz.	.22	.22	.22	.22	.22	.22	.22
9—Hanger Lock Nut Washer, Wt. ½ oz.	.10	.10	.10	.10	.10	.10	.10
Rear Wheel Group							
20—Rear Wheel, Less Tire, Cemented Rim, Wt. 3½ lbs.	4.00	4.00	4.00	4.00	4.00	4.00	4.00
20¼—Same as No. R20, with Coaster Brake, Wt. 4½ lbs.	9.60	9.60	9.60	9.60	9.60	9.60	9.60
20½—Rear Wheel, Less Tire, G. & J. Rim, Wt. 3¼ lbs.	4.40	4.40	4.40	4.40	4.40	4.40	4.40
20¾—Same as No. R20½, with Coaster Brake, Wt. 4¼ lbs.	9.80	9.80	9.80	9.80	9.80	9.80	9.80
When Ordering Wheels Give Color and Size							
21—Rear Wheel Ball Cups, Wt. per Pair 2 ozs.	.24	.24	.24	.24	.24	.24	.24
22—Rear Wheel Cones, Wt. per Pair 1½ oz.	24	24	24	24	24	24	24

(Continued on Next Page)

EXTRA BICYCLE PARTS

(Continued from Previous Page)

NOTE—WHEN ORDERING THESE PARTS ALWAYS SPECIFY NUMBER OR NAMES OF MODELS IN ADDITION TO NUMBER OF PARTS WANTED



MODEL	650	376	379	300	Boys' Juvenile	Girls' Juvenile	385
Nos. Frame and Head Group	Each	Each	Each	Each	Each	Each	Each
23 Rear [illegible], Wt. 5 oz.	$0 18	$0 18	$0 18	$0 18	$0.18	$0 18	$0 18
24 Rear Axle Nuts, Wt. per Pair 1 oz.	.14	.14	.14	.14	.14	.14	.14
25 Rear Axle Washers, Wt. per Pair 1 oz.	.10	.10	.10	.10	.10	.10	.10
27—Rear Sprocket, Wt. 5 ozs., Specify number [illegible]	.50	.50	.50	.50	.50	.50	.50
29—Rear Wood Rim, for Cemented Tire, Wt. [illegible] lbs.	1.40	1.40	1.40	1.40	1.40	1.40	1.40
29½ Rear Wood Rim, for G. & J. Tire, Wt. 1¾ lbs.	1.60	1.60	1.60	1.60	1.60	1.60	1.60
When Ordering Rims give Color, Size and Finish							
30—Rear Wheel Ball Retainer, without Balls, Wt. 1 oz.	.12	.12	.12	.12	.12	.12	.12
Front Wheel Group							
31—Front Wheel, [illegible] Tire, Cemented Rim, Wt. [illegible]	3.20	3.20	3.20	3.20	3 20	3.20	3.20
31½ Front Wheel, [illegible] Tire, for G. & J. Tire, Wt. [illegible] lbs.	3 40	3.40	3.40	3 40	3 40	3.40	3.40
When Ordering Wheels Give Color and Size							
32 Front Hub Shell, Wt. [illegible]	80	.80	80	80	80	80	.80
33 Front Wheel, [illegible] Wt. [illegible]	20	20	20	20	20	20	20
34 Front Wheel [illegible], Wt. [illegible]	20	20	20	20	20	20	20
35 Front [illegible]	20	20	20	20	20	20	20
36 Front [illegible]	20	20	20	20	20	20	20
37 Front Axle [illegible], Wt. [illegible]	10	10	10	.10	.10	10	10
38—Front Wood Rim, for Cemented Tire, Wt. [illegible] lbs.	1.10	1.10	1.10	1.10	1.10	1.10	1.10
38½ Front Wood Rim, for G. & J. Tire, Wt. [illegible] lbs.	1.30	1.30	1.30	1.30	1.30	1.30	1.30
When Ordering Rims Give Color and Size							
39—Front Wheel Ball Retainer, without Balls, Wt. 1 oz.	.12	.12	.12	.12	.12	.12	.12
Mud and Chain Guard Group							
When Ordering Guards Give Color and Size of Wheels							
40—Rear Mud Guard, Wt. [illegible]	1 50	1 50	1 50	1 50	1 50	1 50	1 50
200 Rear Mud [illegible], Wt. [illegible] oz.	32	32	32	32	32	32	32
43 Front Mud Guard, Wt. [illegible] oz.	1 30	1 30	1 30	1 30	1 30	1 30	1 30
950 Front [illegible], Wt. [illegible] oz.	24	24	24	24	24	.24	24
46 Chain Guard, Wt. 12 ozs.			2 50				
47—Chain Guard, Brace, Wt. 4 ozs.			50				
48—Chain Guard Bolts, Wt. 1 oz.			16				

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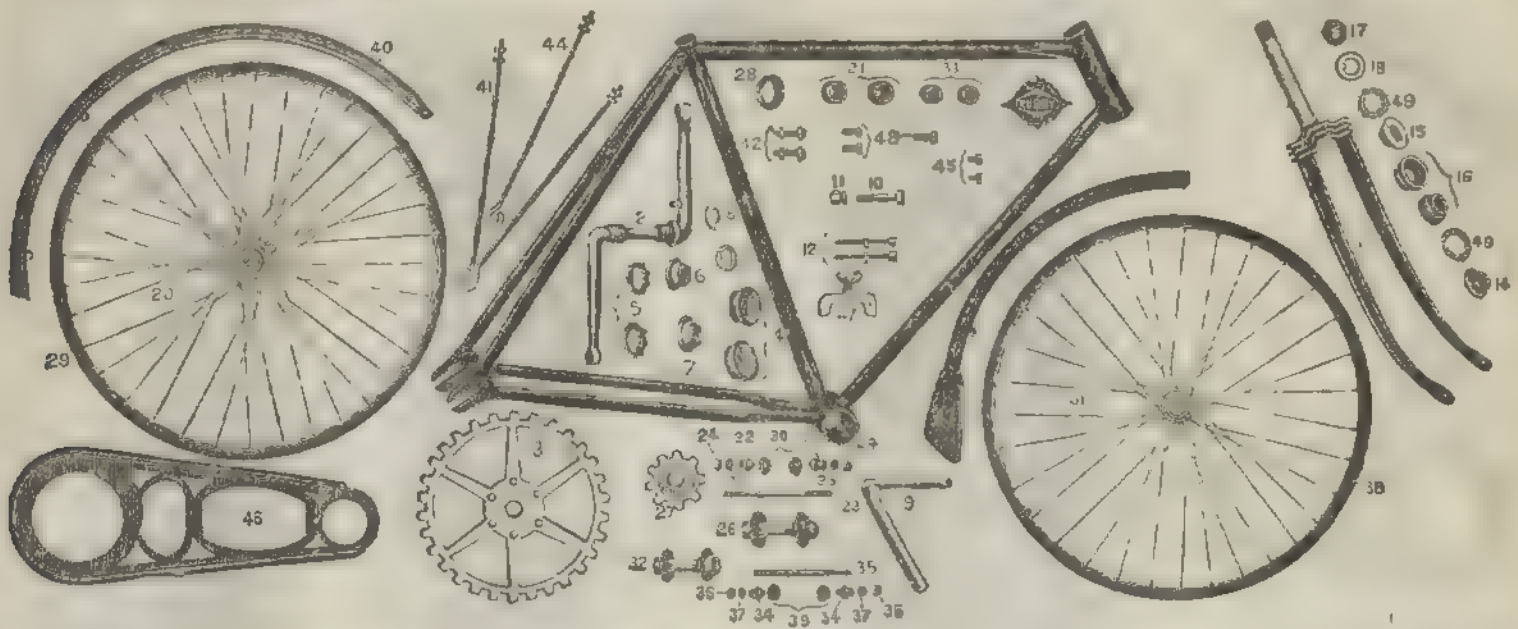
EXTRA BICYCLE PARTS

(Continued From Previous Page)

NOTE - WHEN ORDERING THESE PARTS ALWAYS SPECIFY NUMBER OR NAME OF MODELS IN ADDITION TO NUMBER OF PARTS WANTED.



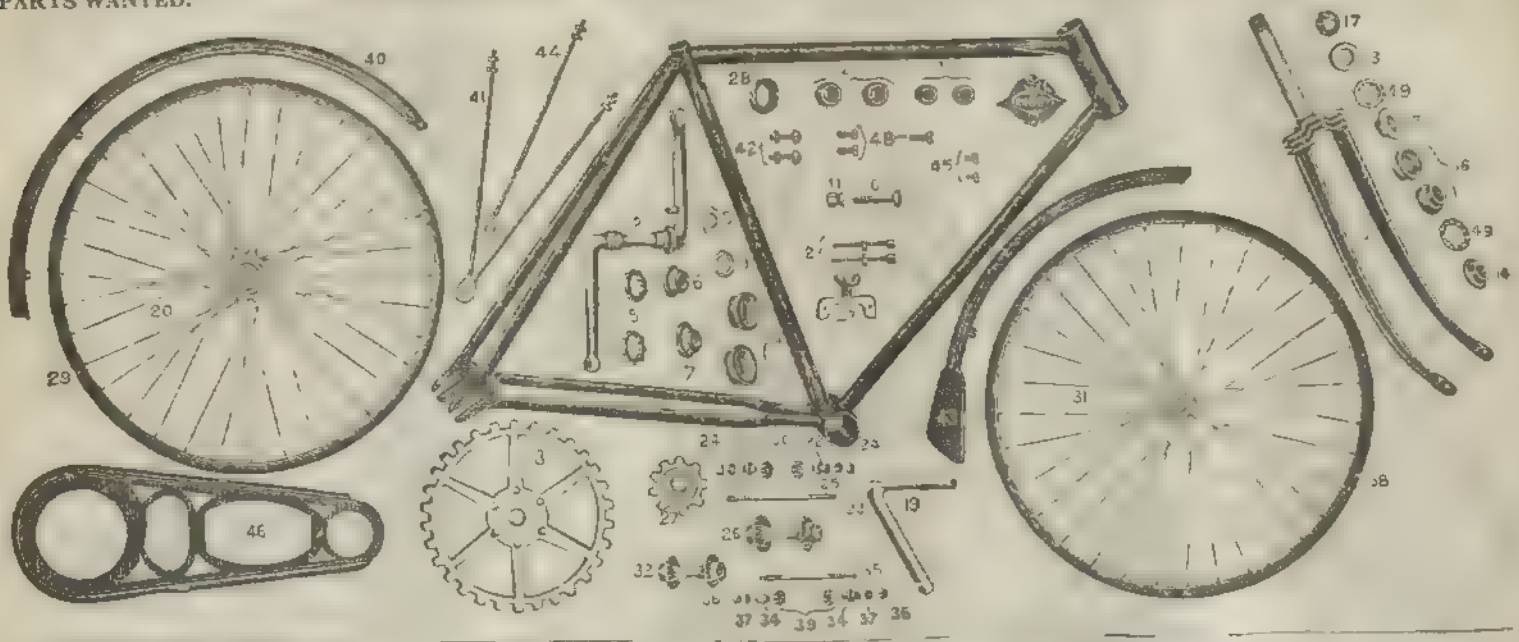
MODEL	366, 367, 368	369	416	Wonder 515	Wonder	Cyco
Nos. Frame and Head Group	Each	Each	Each	Each	Each	Each
1—Frame, less All Parts; Weight 7 lbs., Specify Color and Size	$16 00	$16 50	$17 50	$18 00	$18.00	$16.00
10—Frame Bolt, for Binding Seat Post; Wt. [illegible] oz.	Per Set $0 30	Per Set $0 30	Per Set $0 30	Per Set $0 30	Per Set $0 30	Per Set $0.30
12—Chain Adjuster, Wt. 1 oz.	Each $0 16	Each $0 10	Each $0 16	Each $0 16	Each $0 16	Each $0 16
13—Front Fork, Wt. 2 lbs., Specify Color and Size of Frame	4 00	4 50	4 50	4.00	4.00	4 00
14—Lower Head Cone (Screw type) Wt. [illegible] oz.	24	24	24	.24	24	.24
15—Upper Head Cone, (Adjusting) Wt. 1 oz.	28	28	28	28	28	.28
16L—Lower Head Ball Cup, Wt. 1 oz.	28	.28	28	28	28	.28
16U—Upper Head Ball Cup, Wt. 1 oz.	28	28	28	28	28	.28
17—Head Lock Nut, Wt. 1 oz.	36	36	36	36	36	36
18—Head Lock Nut Washer Wt. [illegible] oz.	.10	.10	10	.10	.10	.10
49—Head Ball Retainer, Without Balls, Wt. 1 oz.	.14	.14	.14	.14	.14	.14
19—Seat Post, Complete, Wt. 11 ozs.	1 00	1 00	1 00	1 60	1.00	1 00
Crank Hanger Group						
22—Crank Hanger, Complete, Wt. 21 ozs.	6 00	6 00	6 00	6 00	6 00	6 00
2—Cranks, Wt. [illegible] lbs.	2.80	2.80	2 80	2 80	2 80	2.80
3—Front Sprocket Wt. 11 ozs., Specify number of teeth	2 20	2 20	2 20	2 20	2 20	2 20
4—Hanger Ball Cup, Wt. 1 oz., Two to Set	.32	.32	.32	32	.32	.32
5—Hanger Ball Retainer, Without Balls, Wt. 1 oz., Two to Set	22	22	22	22	.22	.22
6—Hanger Stationary Cone, Wt. 2 ozs.	40	40	40	40	.40	.40
7—Hanger Adjusting Cone, Wt. [illegible] oz.	40	40	40	40	.40	.40
8—Hanger Lock Nut, Wt. 1 oz.	.22	.22	.22	.22	.22	.22
9—Hanger Lock Nut Washer, Wt. ½ oz.	.10	.10	.10	.10	.10	.10
Rear Wheel Group						
20—Rear Wheel, Less Tire, Cemented Rim, Wt. [illegible] lbs.	4 00	4 00	4 00	4 00	4 00	4 00
20¼—Same as No. 20, with Coaster Brake, Wt. [illegible] ozs.	9 60	9 60	9 00	9 60	9 60	9.60
20½—Rear Wheel, Less Tire, G. & J. Rim, Wt. [illegible] lbs.	4 40	4 40	4 40	4 40	4 40	4.40
20¾—Same as No. 20½, with Coaster Brake, Wt. 4¾ lbs.	9.80	9.80	9 80	9.80	9.80	9.80
When Ordering Wheels Give Color and Size						
21—Rear Wheel Ball Cups, Wt. per Pair 2 ozs.	24	24	24	24	24	.24
22—Rear Wheel Cones, Wt. per Pair [illegible] ozs.	24	24	24	24	24	24

(Continued on Next Page)

EXTRA BICYCLE PARTS

(Continued from Previous Page)

NOTE—WHEN ORDERING THESE PARTS ALWAYS SPECIFY NUMBER OR NAME OF MODELS IN ADDITION TO NUMBER OF PARTS WANTED.



MODEL	366, 367, 368,	369	416	Wonder 515	Wonder	Cyco
Nos. Frame and Head Group	Each	Each	Each	Each	Each	Each
23—Rear Axle, Wt. 5 ozs.	$0 18	$0 18	$0 18	$0 18	$0 18	$0.18
24—Rear Axle Nuts, Wt. per Pair 1 oz.	.14	.14	.14	.14	14	.14
25—Rear Axle Washers, Wt. per Pair 1 oz.	.10	.10	.10	.10	.10	.10
27—Rear Sprocket, Wt. 5 ozs., Specify number Teeth	.50	.50	.50	.50	.50	.50
29—Rear Wood Rim, for Cemented Tire, Wt. 1½ lbs.	1.40	1 40	1 40	1 40	1.40	1 40
29½—Rear Wood Rim, for G. & J. Tire, Wt. 1¾ lbs.	1 60	1 60	1 60	1 60	1 60	1 60
When Ordering Rims give Color, Size and Finish						
30—Rear Wheel Ball Retainer, without Balls, Wt. 1 oz.	.12	.12	.12	.12	.12	.12
Front Wheel Group						
31—Front Wheel, less Tire, Cemented Rim, Wt. 2½ lbs.	3 20	3.20	3 20	3 20	3 20	3.20
31½—Front Wheel, less Tire, G. & J. Rim, Wt. 2¾ lbs.	3.40	3.40	3 40	3 40	3.40	3 40
When Ordering Wheels Give Color and Size						
32—Front Ball Shell, Wt. 4 oz.	.80	.80	.80	.80	.80	.80
33—Front Wheel Cone, Wt. 1 oz.	.20	.20	.20	.20	.20	.20
34—Front Wheel Cones, Wt. 1 oz.	.20	.20	.20	.20	.20	.20
35—Front Axle, Wt. 2 oz.	.20	.20	.20	.20	.20	.20
36—Front Axle Nuts, Wt. ½ oz.	.20	.20	.20	.20	.20	.20
37—Front Axle Washer, Wt. ½ oz.	10	10	.10	10	.10	.10
38—Front Wood Rim, for Cemented Tire, Wt. 1½ lbs.	1.10	1.10	1.10	1.10	1.10	1.10
38½—Front Wood Rim, for G. & J. Tire, Wt. 1¾ lbs.	1.30	1.30	1.30	1.30	1.30	1.30
When Ordering Rims Give Color and Size						
39—Front Wheel Ball Retainer, without Balls, Wt. 1 oz.	.12	.12	.12	.12	.12	.12
Mud and Chain Guard Group						
When Ordering Guards Give Color and Size of Wheels						
40—Rear Mud Guard, Wt. ½ lb.	1 50	1 50	1 50	1.50	1 50	1 50
200—Rear Mud Guard Brace	32	32	32	32	.32	.32
43—Front Mud Guard, Weight 4 ozs.	1.30	1.30	1 30	1 30	1.30	1 30
956—Front Guard Brace, Wt. 3 ozs.	.24	.24	.24	.24	.24	.24
46—Chain Guard, Wt. 12 ozs.		3.50				
47—Chain Guard, Brace, Wt. 4 ozs.		.50				
48—Chain Guard Bolts, Wt. 1 oz.	.16					
2—Cranks, Wt. 1½ lbs.	2 80	2 80	2 80	2 80	2 80	2 80

DOLLS

Large Size Head; Length of Body 16 Inches; Length, Including Dress, 28 Inches; Extra Large Unbreakable Head; Real Glass Eyes; Curled Natural Hair; Natural Hands; Stuffed Body; Movable Legs and Arms; Extravagantly Dressed; White Lace Bonnet with Silk Ribbon Bows and Ties; Beautiful Fine Sheer White Lawn Dress, Lace Trimmed and with Lace Insertions, Large Silk Ribbon Bows Connected with Long Loops of Ribbon; Lace Trimmed Undergarments with Long Skirt; Fancy Crocheted Blue and White Booties extending to Knees.

Per Dozen

No. 816—Weight per Dozen 24 lbs. . **$132 00**

One in a Box

Life Size Doll; Length 21 inches; Extra Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Elaborately Dressed with Fine Quality White Lawn Dress Trimmed with High Grade Lace; White Petticoat with Embroidered Flounce; White Lace Covered Bonnet; Fine Crocheted Blue and White Booties.

Per Dozen

No. 820—Weight per Dozen 36 lbs. **$108.00**

One in a Box

Schoenhut Perfection All Wood Doll; Made of All Wood, with Steel Hinges and Spring Joints; Extremely Durable; Cannot be Distinguished from the Finest Bisque Doll; Full Jointed at Neck, Shoulders, Elbows, Wrists, Hips, Knees and Ankles in such Manner that the Doll can be made to Assume any Posture Possible with the Human Body and without the Stiff, Unnatural Appearance of most Dolls. Length 15 Inches; Natural Curled Hair with Silk Ribbon Bow; with Lace Trimmed Combination Suit; White Stockings; White Kid Slippers; Complete with Metal Display Stand.

Per Dozen

No. 831—Weight per Dozen 21 lbs. **$102 00**

One in a Box

DOLLS

Schoenhut Perfection All Wood Sitting Doll; Arms and Legs are Carved in the Chubby Fashion of Infants and Curved in the Positions Generally Natural with Babyhood; Jointed Head, Shoulders, and Hips; Owing to Curved Position of Limbs, Dolls can only Successfully Assume Positions of Sitting or Reclining; Height 12½ inches, Full Head of Natural Hair; White Slip Dress with Lace Trimmings.

Per Dozen

No. 830—Weight per Dozen 18 lbs. **$96.00**

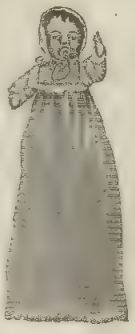
One in a Box

Life Size Doll; Height 16 Inches; Extra Large Unbreakable Head; Real Glass Eyes; Curled Natural Hair; Natural Hands, Stuffed Body; Movable Arms and Legs; Large Silk Bow in Hair; Handsomely Dressed in White with Lace Trimmings; Lace Trimmed White Undergarments; White Stockings with Felt Booties.

Per Dozen

No. 815—Weight per Dozen 24 lbs. . . . **$96 00**

One in a Box



Life Size Doll; Length of Body 18 inches, Length Including Dress 30 inches; Life Size Unbreakable Head, With Open Mouth into which can be Fitted Real Rubber Nipple Pacifier, Furnished Attached to Cord around Neck; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Lace Covered Bonnet with White and Blue Silk Ribbons; Fine Quality White Lawn Dress, with Lace Trimmings; Long White Underskirt.

Per Dozen

No. 822—Weight per Dozen 32 lbs. . **$78 00**

One in a Box

Life Size Doll; Length 18 inches; Unbreakable Head; Moulded Hair; Natural Hands, Stuffed Body; Movable Arms and Legs; White Lined Lace Bonnet with Broad White Silk Ribbons; Fine White Dress, Elaborately Trimmed with High Grade Lace Trimmed Undergarments; Short White Stockings, with Felt Boots.

Per Dozen

No. 819—Weight per Dozen 28 lbs. **$72 00**

One in a Box

DOLLS

Length 16 Inches; Large Unbreakable Head: Moulded Hair; Natural Hands; Stuffed Body, Movable Arms and Legs; White Lace Covered Bonnet with Pink Silk Ribbons; White Cotton Dress, Trimmed with Lace; Short White Stockings with Felt Boots.

Per Dozen
No. 821—Weight per Dozen 21 lbs.....**$63 00**

One in a Box

Length 16 Inches; Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; White Bonnet Trimmed with Wide White Lace; Lace Trimmed White Cotton Dress; White Stockings with Felt Boots.

Per Dozen
No. 818—Weight per Dozen 19 lbs..**$60 00**

One in a Box

Length 18 Inches; Large Unbreakable Head; Curled Natural Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Lace Trimmed White Dress with White Underwear; Lace Trimmed White Bonnet with Pink Ribbons; Short White Stockings with Pink Felt Boots.

Per Dozen
No. 619—Weight per Dozen 21 lbs.....**$50 00**

One in a Box

Infant Doll, Length 14½ Inches; Length, Including Dress, 24 Inches; Unbreakable Head; Real Hair; Natural Hands; Movable Arms and Legs; Stuffed Body; Long White Pleated Dress, Trimmed with Lace; Pleated Lace Collar; Lace Trimmed White Bonnet, with Pink Silk Bows and Ties; Long White Petticoat; Pink Edged White Juliet Boots.

Per Dozen
No. 1542—Weight per Dozen 18 lbs.....**$48 00**

One in a Box

Length 19 Inches; Extra Large Unbreakable Head; Natural Curled Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Lace Trimmed White Dress with Pink Silk Ribbon Sash; White Petticoat; White Stockings and Pink Boots.

Per Dozen
No. 614—Weight per Dozen 21 lbs. ...**$42 00**

One in a Box

Length 18 Inches; Extra Large Unbreakable Head; Natural Curled Hair; with Pink Silk Bows, Natural Hands, Stuffed Body; Movable Head, Arms and Legs. Very Pretty Dress in Watered Silk Effect; White Petticoat; White Stockings; Pink Felt Boots.

Per Dozen
No. 615—Weight per Dozen 21 lbs.....**$42.00**

One in a Box

Length 19 Inches; Extra Large Unbreakable Head; Natural Curled Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs. Pretty Flowered Dress in Watered Silk Effect, Trimmed with Pink; Bonnet to Match Dress, with Pink Ribbons; White Petticoat; White Stockings, Pink Felt Boots.

Per Dozen
No. 616—Weight per Dozen 22 lbs.....**$42 00**

One in a Box

Length 19 Inches; Extra Large Unbreakable Head; Natural Curled Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs. Well Made Dress with Flowered Skirt; and Fine Material; Waist with White Lace; White Petticoat; Elaborate Bonnet to Match Dress, with Pink Silk Ribbons; White Stockings; Pink Felt Boots.

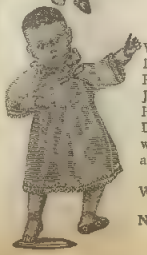
Per Dozen
No. 617—Weight per Dozen 21 lbs.....**$42 00**

One in a Box

Length 17½ inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Elaborately Dressed; Blue Coat of Heavy Material; Large Embroidered White Collar and Cuffs; Lace Trimmed Petticoat; Fancy Real Breast-Pin; Full Seamed and Fitted Hat to Match the Coat; White Stockings; Blue Felt Boots.

Per Dozen
No. 618—Weight per Dozen 20 lbs.....**$37 00**

One in a Box



Schoenhut Perfection Wood Doll; Made of All Wood; Steel Hinges and Spring Joints; Extremely Durable; It Cannot be Distinguished from the Finest Bisque Doll Made, and is Indestructible; Jointed at Neck, Shoulders, Elbows, Wrists, Hips, Knees and Ankles in Such Manner that the Doll can be Made to Assume Any Posture Possible with the Human Body and without the Stiff and Unnatural Appearance of Most Dolls.

Length 11 Inches; Painted Hair; Lace Trimmed White Slip; With Metal Stand.

Per Dozen
No. 523—Weight per Doz. 12 lbs **$36 00**

One in a Box

DOLLS

Length 14 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Lace Trimmed White Bonnet with Blue Bow Tie; White Cotton Dress Trimmed with Lace; Felt Boots.

Per Dozen

No. 817—Weight per Dozen 15 lbs.....**$27.00**

One in a Box

Height 14½ Inches; Unbreakable Head; Real Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; White Dress Trimmed with White Lace and Blue and White Ribbons; Plain White Petticoat; Short White Stockings; Blue Slippers

Per Dozen

No. 1456—Weight per Dozen 12 lbs... **.$27.00**

One in a Box

Length 15 Inches; Unbreakable Head; Real Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Lace Trimmed White Dress and Petticoat; White Stockings; Blue Slippers.

Per Dozen

No. 1457 Weight per Dozen 11 lbs..... **.$27 00**

One in a Box

Dutch Girl; Length 14 inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs, Felt Costume and Bonnet, in Green, Yellow, Blue and White.

Per Dozen

No. 2065 Weight per Dozen 12 lbs.....**$27 00**

One in a Box

Dutch Boy; Length 14 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Felt Costume and Cap, Orange Trousers with Brown Patches, Blue Blouse with White Collar and Light Patch; Blue Cap with Gray Top.

Per Dozen

No. 2066 Weight per Dozen 12 lbs... **$27 00**

One in a Box

DOLLS

Length 16 Inches; Large Unbreakable Head; Moulded Hair; Wonderfully Animated Expression; Natural Hands; Stuffed Body; Movable Arms and Legs; Dressed in White Pique Trimmed with Persian Rose Design; Becoming Turban to Match; Pink Cork Silk Ribbon Belt; Pink and White Juliet Boots.

Per Dozen

No. 1543—Weight per Dozen 15 lbs...**$26.40**

One in a Box

Length 16 Inches; Large Unbreakable Head; Moulded Hair; Wonderfully Animated Expression; Natural Hands; Stuffed Body; Movable Arms and Legs; White Pique Norfolk Suit Trimmed with Old Rose; Cap to Match; White Stockings; Pink Slippers.

Per Dozen

No. 1544—Weight per Dozen 16½ lbs **$26.40**

One in a Box

Length 15 Inches; Unbreakable Head; Wonderfully Life like Expression; Moulded Hair; Natural Hands; Movable Arms and Legs; Stuffed Body, Well Made Tan Dress with Red Embroidered White Trimmings; Red Silk Cord Belt with Red Pompon Tassels; Tan Turban with Red Pompon Tassels; White Juliet Boots with Pink Edging.

Per Dozen

No. 1541—Weight per Dozen 16 lbs.....**$26 00**

One in a Box

Length 13 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Dressed in White Shirt, Green Overalls, Piped with Red; Felt Shoes, and Green Hat.

Per Dozen

No. 807—Weight per Dozen 15 lbs.. ... **$25 00**

One in a Box

Length 13 Inches, Unbreakable Head, Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Fancy Lace Trimmed Dress; Felt Shoes; Red Lined, Shaped Hat with Rubber Chin Band.

Per Dozen

No. 808—Weight per Dozen 12½ lbs. . **$25 00**

One in a Box

DOLLS

Baby Bunting Doll; Length 13½ Inches; Height Sitting 10¼ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Movable Arms and Legs; Well Made and Trimmed Romper Suit; White Felt Shoes.

Per Dozen
No. 809—Weight per Dozen 13½ lbs...**$25 00**

One in a Box

Length 14 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; White Dress Trimmed with White Lace; White Lace Trimmed Bonnet with Pink Ties.

Per Dozen
No. 810—Weight per Dozen 15 lbs.....**$25 00**

One in a Box

Oliver Twist Doll; Length 15 Inches; Un-Breakable Head; Moulded Hair, with Cream Colored Silk Bow; Natural Hands; Stuffed Body; Movable Arms and Legs; Green Crepe Dress with White Waist and White Hat; White Canvas Shoes.

Per Dozen
No. 811—Weight per Dozen 15½ lbs. .**$25 00**

One in a Box

Campbell Kid Doll; Length 13 Inches; Un-Breakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Delicate Figured Print Cotton Dress with Old Rose Trimming; White Undergarments; Felt Shoes.

Per Dozen
No. 812—Weight per Dozen 15 lbs.... .**$25 00**

One in a Box

Campbell Kid Doll; Length 13½ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Striped Rompers with Trimmings to Match; Brown Felt Boots.

Per Dozen
No. 813 Weight per Dozen 15 lbs.....**$25 00**

One in a Box

DOLLS

Daisy Dimple Doll; Length 16 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Blue Waist with White Lace Cuffs and Trimmings; White Crepe Skirt with Figures Designed; White Undergarments; White Shoes.

Per Dozen
No. 814 Weight per Dozen 16 lbs. **$25 00**

One in a Box

Life Size Doll; Length 21 Inches; Extra Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Pink Check Rompers with Cuffs, Belt and Lace Trimmed Collar to Match.

Per Dozen
No. 660—Weight per Dozen 30 lbs. **$25 00**

One in a Box

Life Size Doll; Length 21 Inches; Extra Larg Unbreakable Head; Moulded Hair, Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Attractive Check Pattern Dress with Trimmings to Match.

Per Dozen
No. 661—Weight per Dozen 30 lbs.... **$25 00**

One in a Box

Cowboy; Length 14½ inches; Unbreakable Head; Moulded Hair, Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Elaborately Costumed, with Red Felt Shirt, Tan Felt Trousers with Yellow Fringe and Trimmings; Yellow Felt Sombrero; Tan Leather Belt.

Per Dozen
No. 1301 –Weight per Dozen 12 lbs....**$23.00**

One in a Box

DOLLS

Cow-Girl; Length 14½ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Elaborate Felt Costume; Red Shirt; Yellow Skirt with Yellow Fringe and Trimmings; Yellow Felt Hat; Black Leather Belt.

Per Dozen
No. 1392—Weight per Dozen 13 lbs.....**$23 00**

One in a Box

Dutch Boy; Length 14½ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Felt Costume in Green and Yellow, with Green and Yellow Felt Hat to Match.

Per Dozen
No. 1393—Weight per Dozen 13 lbs....**$23 00**

One in a Box

Dutch Girl; Length 14½ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Felt Costume in Green and Yellow.

Per Dozen
No. 1394—Weight per Dozen 13 lbs....**$23.00**

One in a Box

Length 14½ Inches; Length, Including Dress, 21 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Lace Trimmed Dress and Bonnet, with Pink Ribbons; White Petticoat.

Per Dozen
No. 657—Weight per Dozen 15 lbs.....**$31 60**

One in a Box

DOLLS

American Soldier Boy; Length 15 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Felt Costume, Khaki Soldier Suit; Brass Buttons; Black Patent Leather Finish Legging; Soft Felt Hat.

Per Dozen
No. 1395—Weight per Dozen 12 lbs.....**$23.00**

One in a Box

Length 14½ Inches; Unbreakable Head; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Blue Trousers; White Waist with Blue Collar and Cuffs; White Hat; White Stockings and Shoes.

Per Dozen
No. 658—Weight per Dozen 14 lbs.....**$21.60**

One in a Box

Length 14½ Inches; Unbreakable Head; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Fancy Dress and Hat to Match; White Stockings and Shoes.

Per Dozen
No. 659—Weight per Dozen 14 lbs.....**$21 60**

One in a Box

Length 15½ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Lace Trimmed Dress in Assorted Check Patterns, with Two Pockets; White Petticoat; Sun Bonnet to Match Dress; White Stockings; Pink Felt Boots.

Per Dozen
No. 606—Weight per Dozen 15 lbs.....**$20.40**

One in a Box

American Navy Boy; Length 15½ inches; Unbreakable Head; Moulded Hair; Natural Hands; Movable Head, Arms and Legs; Stuffed Body; Assorted Blue Sailor Suits and Cap with White Trimming, and White Sailor Suits and Cap with Blue Trimming.

Per Dozen
No. 620—Weight per Dozen 12 lbs . . **$16 50**

One in a Box

American Soldier Boy; Length 16 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Real Khaki Army Suit and Hat; Brass Buttons; Black Belt.

Per Dozen

No. 621—Weight per Dozen 12 lbs.....**$16.50**

One in a Box

Length 16 Inches; Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body, Movable Arms and Legs; Lace Trimmed White Dress with Blue Jacket Trimmed with Pink Silk Embroidery and Fastened with Fancy Real Breast Pin; White Petticoat; White Lace Trimmed Bonnet with Pink Ribbon Ties; White Stockings; Blue Felt Boots.

Per Dozen

No. 611—Weight per Dozen 14½ lbs.....**$20 40**

One in a Box

Length 16 Inches; Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Lace Trimmed White Waist; Beautiful Tan Dress of Heavy Material; White Petticoat; White Hat with Straw Colored Felt Brim; White Stockings; Blue Felt Shoes.

Per Dozen

No. 612—Weight per Dozen 15 lbs.....**$20 40**

One in a Box

Dutch Girl; Length 12 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body, Movable Head, Arms and Legs; Felt Costume and Bonnet, in Green, Yellow, Blue, White and Red.

Per Dozen

No. 2063—Weight per Dozen 11 lbs.....**$13.50**

One in a Box

Dutch Boy; Length 11½ Inches; Unbreakable Head; Painted Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Felt Costume; Blue Trousers with Green Patches; Brown Jacket with Brass Buttons; Red Scarf, Blue Cap with Brown Trimmings.

Per Dozen

No. 2064—Weight per Dozen 10 lbs.....**$13 50**

One in a Box

DOLLS

Length 15 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Assorted Pink and Blue Dresses in Checks and Stripes.

Per Dozen

No. 606—Weight per Dozen 10½ lbs.....**$15.00**

One Dozen in a Box

Length 16 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Handsome Cherry Colored Dress of Good Material, Well Trimmed; White Petticoat; White Stockings; Blue Felt Boots; Two Toned Colored Hat to Match Dress.

Per Dozen

No. 609—Weight per Dozen 15 lbs.....**$20 40**

One in a Box

Length 16 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Handsome Blue and White Two Piece Sailor Dress with Belt and Hat to Match, White Petticoat; White Stockings; Blue Felt Boots.

Per Dozen

No. 610—Weight per Dozen 15 lbs.....**$20 40**

One in a Box

Length 16 Inches; Extra Large Unbreakable Head; Moulded Hair, Natural Hands, Stuffed Body, Movable Arms and Legs; White Dress with Pink Dots, Belt and Trimmings to Match, White Seamed and Fitted Cap with Pink Band, White Stockings; Pink Felt Boots

Per Dozen

No. 613—Weight per Dozen 15 lbs. **$20 40**

One in a Box

Length 16 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Assorted Rompers in Blue and Pink, Stripes and Checks.

Per Dozen

No. 607—Weight per Dozen 10½ lbs..... **$15 00**

One Dozen in a Box

DOLLS

Campbell Kid Doll; Length 12 inches; Unbreakable Head; Moulded Hair; Stuffed Body; Movable Arms and Legs; Dressed in Rompers of Assorted Patterns in Checks and Stripes.

Per Dozen

No. 801—Weight per Dozen 7½ lbs. **$13 50**

Quarter Dozen in a Box

Campbell Kid Doll; Length 12 inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body, Movable Arms and Legs; Assorted Fancy Dresses in Checks and Stripes.

Per Dozen

No. 802 -Weight per Dozen 8 lbs. **$13.50**

Quarter Dozen in a Box

Campbell Kid Doll; Length 10½ inches; Unbreakable Head, Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Dressed in White Rompers Trimmed with Red.

Per Dozen

No. 803—Weight per Dozen 7 lbs. **$13 50**

Quarter Dozen in a Box

Length 10½ inches; Length, Including Dress, 17½ inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Plain Long White Dress.

Per Dozen

No. 804—Weight per Dozen 7½ lbs **$13 50**

Quarter Dozen in a Box

22 inches; Extra Large Unbreakable Head; Moulded Hair, Stuffed Body, Movable Arms and Legs; Lace Trimmed White Gown.

Per Dozen

No. 656—Weight per Dozen 16½ lbs .. **$13.50**

One in a Box

DOLLS

Length 12 inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Arms and Legs; Dressed in Assorted Colors in Checks and Plaids, with Trimmings to Match.

Per Dozen

No. 806—Weight per Dozen 7 lbs. **$13 50**

Quarter Dozen in a Box

Length 17½ inches; Large Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Dressed in Checked Rompers Trimmed to Match.

Per Dozen

No. 654—Weight per Dozen 15 lbs **$13 50**

Half Dozen in a Box

Length 17 inches; Extra Large Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms, and Legs; Lace Trimmed Pink Check Dress Trimmed with Blue.

Per Dozen

No. 655 Weight per Dozen 16½ lbs. **$13.50**

Half Dozen in a Box

Candy Kid Doll; Length 12 inches; Unbreakable Head, Moulded Hair, Natural Hands; Stuffed Body; Movable Arms and Legs; Dressed in Blue Striped Rompers Trimmed with Blue.

Per Dozen

No. 805 -Weight per Dozen 7½ lbs. **$13 50**

Quarter Dozen in a Box

Length 11 Inches; Unbreakable Head; Real Natural Hair; Natural Hands; Stuffed Body; Movable Head Arms and Legs; Plain White Dress.

Per Dozen

No. 1455 -Weight per Dozen 6 lbs. **$10 50**

One Dozen in a Box

DOLLS

Spearpoint Talking Doll; Height 13 Inches; Stuffed Head, with Unbreakable Celluloid Face; Hollow Body, with Talking Chamber; Stained Wood Legs and Feet; Green Costume, Brass Buttons; Loose Animated Arms, with Gilt Tip Spear.

Per Dozen
No. 1525—Weight per Dozen 6 lbs. **$12 00**

One in a Box

Crying Doll; Length 8 Inches, Including Dress 11½ Inches; Stuffed Head with Celluloid Face; Hollow Body with Talking Chamber at Back; White Long Dress Trimmed with White Lace and Pink Ribbons and Bows; Loose Animated Arms.

Per Dozen
No. 1628—Weight per Dozen 10½ lbs.....**$13 00**

One in a Box

Crying Doll; Length 10¾ Inches; Stuffed Head with Celluloid Face; Hollow Body, with Talking Chamber; Stained Wood Legs and Feet; Assorted Fancy Costumes, with Bonnets to Match; Loose Animated Arms with White Mittens.

Per Dozen
No. 1625—Weight per Dozen 6 lbs.....**$12 00**

One in a Box

Length 11½ Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs.

Per Dozen
No. 601—Plaid Dress; with Lace Trimmed White Waist; Weight per Dozen 7 lbs.....**$11.00**

No. 602—Blue Checked Dress, with Lace Trimmed White Waist; Weight per Dozen 7 lbs...**11.00**

No. 603—Brown Checked Dress, with Lace Trimmed White Waist; Weight per Dozen 7 lbs..... **11 00**

No. 604—Pink Checked Dress, with Lace Trimmed White Waist; Weight per Dozen 7 lbs..... **11 00**

Sixth Dozen in a Box

Length 12 Inches; Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Dressed in Rompers of Assorted Colors and Designs.

Per Dozen
No. 605—Weight per Dozen 6 lbs. . . . **$11 00**

Sixth Dozen in a Box

DOLLS

Length 14 Inches; Large Unbreakable Head; Moulded Hair; Stuffed Body; Natural Hands; Movable Head, Arms and Legs; Dressed in Rompers of Assorted Attractive Patterns.

Per Dozen
No. 631—Weight per Dozen 15 lbs.....**$10 00**
Half Dozen in a Box

Length 14 Inches; Large Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Dressed in Assorted Attractive Patterns, Lace Trimmed.

Per Dozen
No. 632—Weight per Dozen 15 lbs **$10 00**
Half Dozen in a Box

Length 14 Inches; Large Size Unbreakable Head; Moulded Hair; Natural Hands; Stuffed Body; Movable Head, Arms and Legs; Lace Trimmed White Dress.

Per Dozen
No. 633—Weight per Dozen 12 lbs.....**$10 00**
Half Dozen in a Box

Length 14 Inches; Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Blue Checked Dress, with Pink Trimming; Black Belt.

Per Dozen
No. 1385—Weight per Dozen 12 lbs..... **$9 50**
One Dozen in a Box

Length 14 Inches; Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Lavender Striped Rompers with Red Trimmed Collar, Black Belt.

Per Dozen
No. 1386—Weight per Dozen 12 lbs... ..... **$9 50**

One Dozen in a Box

DOLLS

Talking Doll; Length 8¼ Inches; Stuffed Head with Celluloid Face; Hollow Body, with Talking Chamber; Stained Wood Legs and Feet; Assorted Dresses with Bonnet to Match.

Per Dozen

No. 1026—Weight per Dozen 2 lbs..... $6.00

One in a Box

Length 10½ Inches; Large Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Dressed in Assorted Colors in Checks and Stripes.

Per Dozen

No. 1453—Weight per Dozen 7 lbs..... $5.50

Two Dozen in a Box

Large Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Dressed in Rompers of Assorted Colors and Patterns.

Per Dozen

No. 1454—Weight per Dozen 8¼ lbs..... $5.50

Two Dozen in a Box

Length 12½ Inches; Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Rompers in Stripes and Assorted Colors.

Per Dozen

No. 1381—Weight per Dozen 4¼ lbs... $5.00

One Dozen in a Box

Length 12½ Inches; Unbreakable Head; Painted Hair; Stuffed Body; Movable Head, Arms and Legs; Dresses in Assorted Colors and Patterns.

Per Dozen

No. 1382—Weight per Dozen 4¾ lbs.. $5.00

One Dozen in a Box

DOLLS

Length 10½ Inches; Unbreakable Head; Painted Hair; Movable Arms and Legs; Stuffed Body; Rompers in Assorted Plaids and Checks.

Per Dozen

No. 662—Weight per Dozen 4 lbs... .... $5 00

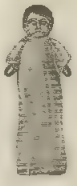
One Dozen in a Box

Length 10½ Inches; Unbreakable Head; Painted Hair; Stuffed Body; Movable Arms and Legs; Dressed in Fancy Assorted Plaids and Checks with Belt to Match.

Per Dozen

No. 663—Weight per Dozen 4 lbs $5 00

One Dozen in a Box



Length 10½ Inches; Length, Including Dress, 13½ Inches; Unbreakable Head; Moulded Hair; Stuffed Body. Movable Head, Arms and Legs; Long White Gown with Lace and Pink Collar.

Per Dozen

No. 664—Weight per Dozen 4¼ lbs..... $5.00

One Dozen in a Box

Length 10½ inches; Small Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Dressed in Assorted Colors and Patterns of Checks and Stripes.

Per Dozen

No. 1451—Weight per Dozen 7 lbs..... $4.50

Two Dozen in a Box

Length 10½ Inches; Small Unbreakable Head; Moulded Hair; Stuffed Body; Movable Head, Arms and Legs; Rompers in Assorted Colors and Designs.

Per Dozen

No. 1452—Weight per Dozen 7 lbs..... $4.50

Two Dozen in a Box

Jack in the Box

Handsomely Illuminated Box, 3¾x3¾x3¾ Inches; with Musical Doll which Arises to 5¾ Inches High on Releasing Cover. Stuffed Head, with Unbreakable Celluloid Face; Black and White Checked Bonnet; Fancy Flowered Costume with White Ruff.

Per Dozen

No. 1627—Weight per Dozen 3 lbs..... $5.00

One in a Package

POCKET KNIVES

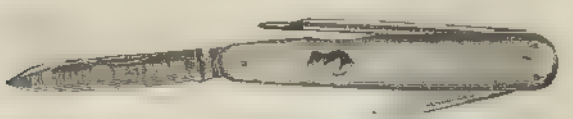
BBB

Highest Grade S. & C. Wardlow's English Steel Blades, Uniformly Tempered, Sharpened and Whetted on an Oilstone Ready for Use

Full polished, German silver lining, shield and tips full milled.

Per Dozen

No. B456—4 blades, **Pearl** handle, 3⅛ in..... $46.00



Full polished, German silver lining and shield, full milled.

Per Dozen

No. B3137 -3 blades, **Pearl** handle, 3 in $38.00

No. B4137—4 blades, **Pearl** handle, 1 large spear point, 2 pens, one file, 3 in... . . . . 39.50

Full polished, German silver lined, full milled

Per Dozen

No. B4068 -3 blades, **Pearl** handle, 3 in $38.50

Full polished, German silver lining, shield and tips full milled.

Per Dozen

No. B3137T -3 blades, **Pearl** handle, 3 in..... $33.00

Full polished, brass lined, milled

Per Dozen

No. B4163—4 blades, **Pearl** handle, 3¼ in.. . ... $34.00

Full polished, German silver tips and shield.

Per Dozen

No. B443 -3 blades, **Pearl** handle, brass lined 3⅜ in $29.50

No. B543—4 blades, **Pearl** handle, brass lined, one large spear point, 2 pens, 1 file, 3⅜ in..... 31.00

Full polished, brass lined, German silver tips

Per Dozen

No. B4508 -4 blades, **Pearl** handle 3 in. $28.50

Full polished, German silver tips and shield

Per Dozen

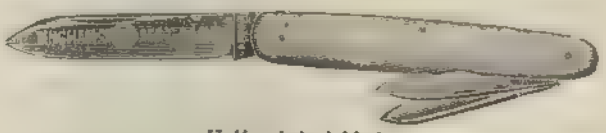
No. B0253—2 blades, **Pearl** handle, brass lined, 3 in.....$29.50

Half polished, German silver tips and shield.

Per Dozen

No. B02439—2 blades, **Pearl** handle, brass lined, 3⅜ in.....$29.50

No. B32439—3 blades, **Pearl** handle, brass lined 1 large spear point, 2 pens, 3⅜ in. 35.00



Half polished blades.

Per Dozen

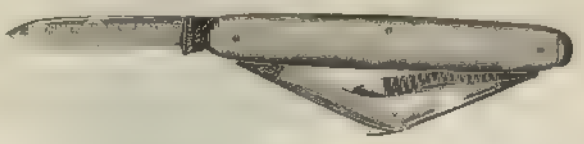
No. B3699—3 blades **Pearl** handle, brass lined 3¼ in. $29.50

No. B0199—2 blades **Pearl** handle, brass lined, 1 large spear point, 1 pen 3¼ in 23.00

Half polished, German silver tips and shield

Per Dozen

No. B0199T -2 blades, **Pearl** handle brass lined, 3¼ in..... . $23.00



Full polished, German silver, tips.

Per Dozen

No. B5008—4 blades, **Pearl** handle, brass lined, 2¾ in $26.50

No. B4008—3 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 1 file, 2¾ in 25.00

Half polished, German silver bolsters.

Per Dozen

No. B32539—3 blades **Pearl** handle, brass lined 3⅜ in $29.50

No. B02539—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 3⅜ in..... . .. . 26.50

Half polished, German silver bolsters and shield

Per Dozen

No. B3313—3 blades, **Pearl** handle brass lined 3⅛ in. $28.00

All Half Dozen in a Box

POCKET KNIVES

Highest Grade S & C. Wardlow's English Steel Blades, Uniformly Tempered Sharpened and Whetted on an Oilstone Ready for Use.

Iridescent Pearl

Handles are pieced, Black Pearl with Japan Pearl stripes. Full polished blades.

Per Dozen

No. B8209—3 blades, **Pearl** handle, German silver lined, 3⅛ in..$36.00

Iridescent Pearl

Full Polished, German silver lined and shackle

No. B8208—3 blades, **Black Pearl** handle, 2¾ in.....Per dozen $36.00

Iridescent Pearl

Handles are pieced, Japan Pearl with Black Pearl stripes. Full polished blades.

Per Dozen

No. B8210—3 blades, **Pearl** handle, German silver lined, 3⅛ in...$37.00

Iridescent Pearl

Handles are pieced, Japan Pearl with Abalone Pearl bolsters. Full polished blades.

Per Dozen

No. B8206—2 blades, **Pearl** handle, German silver lined, 3⅛ in...$26.50

Iridescent Pearl

Handles are pieced, Persian Pearl, Japan Pearl band in center Half polished blades.

No. B8207—2 blades, **Pearl** handle, brass lined, 3¼ in..Per dozen $22.00

Two Pieced Pearl Handles

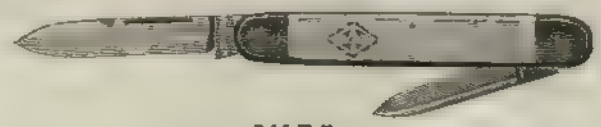
German silver bolsters and band in center. Half polished blades.

No. B096—2 blades, **Pearl** handle, brass lined, 3¼ in..Per dozen $16.00

Two Pieced Pearl Handles

Half polished blades, handle carved in center.

No. B094—2 blades, **Pearl** handle, brass lined, 3 in....Per dozen $16.00



Odd Fellows

Half polished, emblem stamped in gold. Congo Ivory handles, with black bolsters.

Per Dozen

No. B8200—2 blades, **Celluloid** handle, brass lined, 3¼ in.....$9.50

Elks

Half polished, emblem stamped in gold. Congo Ivory handles, with black bolsters.

Per Dozen

No. B8201—2 blades, **Celluloid** handle, brass lined, 3¼ in.....$9.50

Knights of Columbus

Half polished, emblem stamped in gold. Congo Ivory handles, with black bolsters.

Per Dozen

No. B8202—2 blades, **Celluloid** handle, brass lined, 3¼ in.....$9.50

Masonic—Blue Lodge

Half polished, emblem stamped in gold. Congo Ivory handles, with black bolsters.

Per Dozen

No. B8203—2 blades, **Celluloid** handle, brass lined, 3¼ in.....$9.50

Knights of Pythias

Half polished, emblem stamped in gold. Congo Ivory handles, with black bolsters.

Per Dozen

No. B8204—2 blades, **Celluloid** handle, brass lined, 3¼ in.....$9.50

Moose

Half polished, emblem stamped in gold. Congo Ivory handles, with black bolsters.

Per Dozen

No. B8205—2 blades, **Celluloid** handle, brass lined, 3¼ in.....$9.50

Half polished, Congo Ivory handles, with black bolsters.

Per Dozen

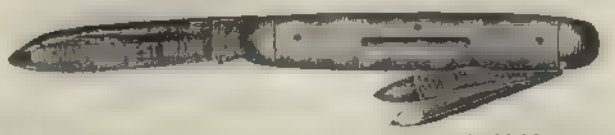
No. B2537—2 blades, **Celluloid** handle, brass lined, 3¼ in.....$9.50

All Half Dozen in a Box

POCKET KNIVES

BBB

Highest Grade S & C. Wardlow's English Steel Blades, Uniformly Tempered, Sharpened and Whetted on an Oilstone Ready for Use



Half polished, German silver bolsters and shield.

Per Dozen

No. B3173—3 blades **Pearl** handle, brass lined, 3¼ in.....$26.00

Full polished, German silver bolsters.

Per Dozen

No. B4558—4 blades, **Pearl** handle, brass lined, 3⅛ in.....$26.00
No. B3458—3 blades, **Pearl** handle, brass lined, half polished, 1 large spear point, 1 pen, 1 file, 3⅛ in..... 24.00
No. B0368—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 3⅛ in..... 21.00

Half polished, German silver bolsters.

Per Dozen

No. B3358—3 blades, **Pearl** handle, brass lined, 3⅛ in.....$26.00

Half polished, German silver bolsters

Per Dozen

No. B2510—3 blades, **Pearl** handle, brass lined, 3 in.....$25.00
No. B0310—2 blades **Pearl** handle, brass lined, 1 large spear point, 1 pen, 3 in..... 20.00

Full polished, German silver bolsters and shield.

Per Dozen

No. B4023—3 blades, **Pearl** handle, German silver lined, 3¼ in..$29.50

Half polished, German silver bolster and shield.

Per Dozen

No. B3823—3 blades, **Pearl** handle, brass lined, 3¼ in.....$26.00

Half polished, German silver bolsters and shield.

Per Dozen

No. B3413—3 blades, **Pearl** handle, brass lined 3⅛ in..... $29.50

Half polished, German silver bolster and cap.

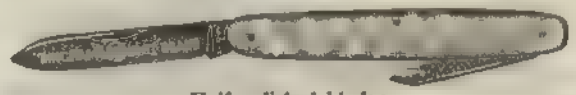
Per Dozen

No. B2010—2 blades, **Pearl** handle, brass lined, 3⅞ in.....$36.00
No. B28104—2 blades, **Pearl** handle, brass lined, 3¼ in..... 28.00

Half polished blades.

Per Dozen

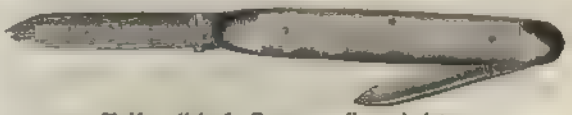
No. B0398—2 blades **Pearl** handle, brass lined, 3 in.....$20.00
No. B093—2 blades, **Pearl** handle, brass lined, 3⅛ in..... 20.50



Half polished blades.

Per Dozen

No. B0208—2 blades, **Pearl** handle, brass lined, 3⅛ in.....$20.00



Half polished, German silver bolsters.

Per Dozen

No. B0309—2 blades **Pearl** handle, brass lined, 3⅛ in.....$16.50
No. B409—3 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 1 file, 3⅛ in..... 23.00

Half polished, German silver tips.

Per Dozen

No. B0508—2 blades, **Pearl** handle, brass lined, 3⅛ in..... .....$19.50

Half polished, German silver bolsters.

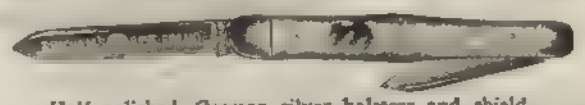
Per Dozen

No. B0898—2 blades, **Pearl** handle, brass lined, 3 in.....$16.50
No. B0897—2 blades **Stag** handle, brass lined, 3 in..... 10.00
No. B01908—2 blades, **Grey Horn Celluloid** handle, brass lined, 3 in..... 10.00

Half polish, German silver bolsters.

Per Dozen

No. B02563—2 blades, **Pearl** handle, brass lined, 3 in.....$20.00



Half polished, German silver bolsters and shield.

Per Dozen

No. B01873—2 blades, **Pearl** handle, brass lined, 3 in.....$16.50

Half polished, German silver bolsters.

Per Dozen

No. B0503—2 blades, **Pearl** handle, brass lined, 3 in.....$20.00

Half polished, German silver bolster and shield.

Per Dozen

No. B0299—2 blades, **Pearl** handle, brass lined, 3 in..... $17.50

All Half Dozen in a Box

POCKET KNIVES

Highest Grade S & C Wardlow's English Steel Blades, Uniformly Tempered, Sharpened and Whetted on an Oilstone Ready for Use.

Half polished, German silver bolsters.

Per Dozen
No. B033—2 blades, **Pearl** handle, brass lined, 2⅜ in.....$12.50
No. B023—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 file, 2¾ in.....13.00
No. B02629—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 2¾ in.....13.50
No. B27120—2 blades, **Black Celluloid** handle, brass lined, 2⅜ in.....8.00
No. B27131—2 blades, **Shell Celluloid** handle, brass lined, 2⅜ in.....8.00

Half polished, German silver bolsters and shield.

Per Dozen
No. B4493—3 blades, **Pearl** handle, brass lined, 2⅝ in.....$12.50

Half polished, steel bolsters.

Per Dozen
No. B0599—2 blades, **Pearl** handle, brass lined, 3 in.....$16.00
No. B0597—2 blades, **Stag** handle, brass lined, 3 in.....10.00

Half polished, German silver cap and bolster.

Per Dozen
No. B810—2 blades, **Pearl** handle, brass lined, 2⅝ in.....$14.00

Half polished, German silver cap and bolster.

Per Dozen
No. B811—2 blades, **Pearl** handle, brass lined, 2⅞ in.....$16.00

Half polished, German silver cap, bolster and shield.

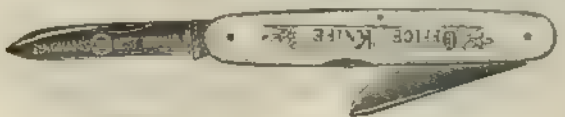
Per Dozen
No. B206—2 blades, **Pearl** handle, brass lined, 3 in.....$17.50

Half polished, German silver cap, bolster and shield.

Per Dozen
No. B301—2 blades, **Pearl** handle, brass lined, 3⅛ in.....$19.50

Half polished, German silver cap, bolster and shield.

Per Dozen
No. B2324—2 blades, **Pearl** handle, brass lined, 3 in.....$18.00



Office knife, half polished, brass lined.

Per Dozen
No. B02320—2 blades, **White Celluloid** handle, 3¼ in.....$13.50
No. B02319—2 blades, **White Celluloid** handle, 3¼ in.....11.00

Full polished, German silver tips and shield.

Per Dozen
No. B0251—2 blades, **Stag** handle, brass lined, 3 in.....$15.00
No. B0250—2 blades, **Silver Celluloid** handle, brass lined, 3 in.....15.00

Full polished, German silver lining and tips.

Per Dozen
No. B5006—4 blades, **Stag** handle, 2⅞ in.....$16.50
No. B4006—3 blades, **Stag** handle, 1 large spear point, 1 pen, 1 file, 2⅞ in.....16.00

Full polished, German silver lining, tips and shield.

Per Dozen
No. B441—3 blades, **Stag** handle, 3⅛ in.....$17.00
No. B541—4 blades, **Stag** handle, 1 large spear point, 2 pens, 1 file, 3⅛ in.....17.50

Full polished, milled German silver lining, tips and shield.

Per Dozen
No. B44811—4 blades, **Genuine Stag** handle, 3⅛ in.....$23.00
No. B35111—3 blades, **Genuine Stag** handle, 3⅛ in.....19.00

Full polished, milled German silver lining, tips and shield.

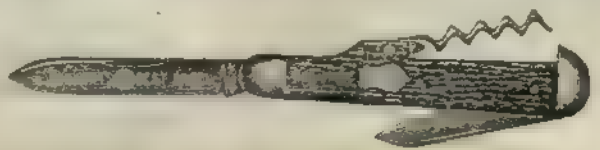
Per Dozen
No. B3348—3 blades, **Black Celluloid** handle, 3 in.....$16.00

Full polished, milled German silver lining, bolsters and shield.

Per Dozen
No. B3311—3 blades, **Stag** handle, 3⅛ in.....$16.00
No. B3310—3 blades, **Black Celluloid** handle, 3¼ in.....16.00
No. B3511—3 blades, **Genuine Stag** handle, 3¼ in.....18.00

Full polished, milled German silver lining, bolsters and shield.

Per Dozen
No. B3360—3 blades, **Black Celluloid** handle, 3¼ in.....$15.50
No. B4361—4 blades, **Genuine Stag** handle, 3¼ in.....17.00



Half polished, German silver bolsters and shield.

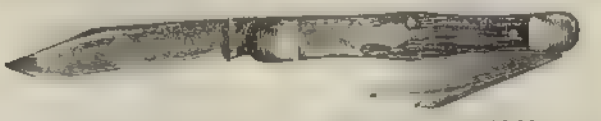
Per Dozen
No. B3751—3 blades, **Stag** handle, brass lined, 3¼ in.....$23.00

All Half Dozen in a Box

POCKET KNIVES

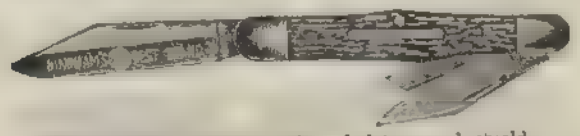
BBB

Highest Grade S & C Wardlow's English Steel Blades, Uniformly Tempered, Sharpened and Whetted on an Oilstone, Ready for Use.



Half polished, German silver bolsters and shield

	Per Dozen
No. B3418—3 blades **Gray Horn Celluloid** handle brass lined, 3½ in	$17 00
No. B3411—3 blades **Black Celluloid** handle brass lined 3½ in	17 00
No. B3410—3 blades **Stag** handle, brass lined 3½ in	17 00
No. B02410—2 blades **Stag** handle brass lined, 1 large clip point 1 pen, 3⅜ in	13 00



Half polished, German silver bolsters and shield.

	Per Dozen
No. B3416—3 blades, **Stag** handle, brass lined 3½ in	$17 00

Half polished, German silver bolsters and shield

	Per Dozen
No. B3281—3 blades, **Black Celluloid** handle, 3⅜ in	$17 00

Half polished, German silver bolsters and shield

	Per Dozen
No. B3821—3 blades, **Stag** handle, brass lined, 3¼ in	$17 00

Half polished, German silver bolsters and shield

	Per Dozen
No. B3822—3 blades, **Black Celluloid** handle, brass lined, 3¼ in.	$17 00

Half polished, German silver bolsters and shield

	Per Dozen
No. B3380—3 blades **Ebony** handle, brass lined 3¾ in	$16 00

Half polished, German silver bolsters and shield

	Per Dozen
No. 3381 3 blades **Stag** handle, brass lined 3¾ in	$17 00

Full polished, German silver bolsters and shield

	Per Dozen
No B3925—3 blades, **Black Celluloid** handle, brass lined 3⅞ in.	$19 00
No. B3928—3 blades, **Stag** handle, brass lined, 3⅞ in.	19 00

Half polished, German silver tips and shield

	Per Dozen
No. B3781T—3 blades, **Stag** handle, brass lined, 3¼ in.	$18 00
No. B3780T—3 blades, **Stag** handle, brass lined, 1 large spear point, 1 pen, 1 file, 3 in.	15 00

Half polished, German silver tips and shield.

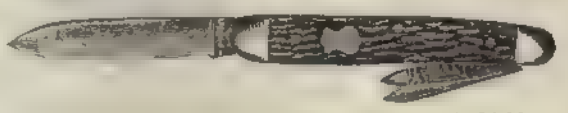
	Per Dozen
No. B3571—3 blades, **Stag** handle, brass lined, 3¼ in.	$16 00

Half polished, German silver tips and shield.

	Per Dozen
No. B32437—3 blades, **Stag** handle, brass lined, 3¼ in.	$15 50

Half polished, German silver bolsters and shield.

	Per Dozen
No B32337 3 blades, **Black Celluloid** handle brass lined 3¼ in	$16 00



Half polished, German silver bolsters and shield.

	Per Dozen
No. B32537 3 blades, **Stag** handle brass lined 3 in	$15 00

Half polished, German silver bolsters and shield.

	Per Dozen
No. B3171 3 blades, **Stag** handle brass lined 3⅞ in	$16 00
No. B3172 3 blades **Black Celluloid** handle, brass lined, 3⅞ in	16 00
No. B3407 3 blades, **Stag** handle, brass lined 3½ in	14 00

Half polished, German silver bolsters and shield

	Per Dozen
No. B3585 3 blades, **Ebony** handle brass lined, 3¾ in.	$16 00
No. B02636—2 blades, **Ebony** handle, brass lined, 3¼ in.	11 00

Half polished, German silver bolsters and shield

	Per Dozen
No. B3583—3 blades, **Stag** handle, brass lined, 3⅞ in.	$19 00

All Half Dozen in a Box

POCKET KNIVES

Highest Grade S & C Wardlow's English Steel Blades. Uniformly Tempered, Sharpened and Whetted on an Oilstone Ready for Use.

Half polished, German silver bolsters and shield.

Per Dozen
No. B4277—4 blades, **Stag** handle, brass lined, 3⅞ in..... $19 00

Half polished, steel bolsters, German silver shield.

Per Dozen
No. B4627—4 blades, **Stag** handle, brass lined, 3⅛ in..... $16 50

Half polished, steel bolsters, German silver shield.

Per Dozen
No. B04627—2 blades, **Stag** handle, brass lined, 3⅛ in..... $11 00
No. B0378—2 blades, **Stag** handle, brass lined, no shield, 4⅛ in. 11.50

Half polished, German silver bolsters and shield.

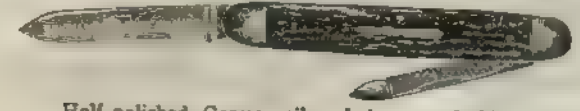
Per Dozen
No. B0298—2 blades, **Stag** handle, brass lined, 3¼ in..... $11 50
No. B0296—2 blades, **Black Celluloid** handle, brass lined, 3¼ in.. 11.50

Half polished, German silver bolsters and shield.

Per Dozen
No. B02172—2 blades, **Black Celluloid** handle, brass lined, 3⅛... $10 50
No. B02171—2 blades, **Stag** handle, brass lined, 3⅛ in..... 10 50

Half polished, German silver bolsters and shield.

Per Dozen
No. B02360—2 blades, **Silver Celluloid** handle, brass lined, 3¼ in. $10.50
No. B02361—2 blades, **Stag** handle, brass lined, 3¼ in..... 10.50



Half polished, German silver bolsters and shield.

Per Dozen
No. B0981—2 blades, **Stag** handle, brass lined, 3⅛ in..... $10 00
No. B01981—2 blades, **Stag** handle, brass lined, 1 large spear point 1 pen 3⅛ in..... 10 00
No. B01982 2 blades, **Black Celluloid** handle brass lined, 3⅛ in 10 00
No. B01982C—2 blades, **Silver Celluloid** handle, brass lined, 3⅛ in. 10 00

Half polished, German silver bolsters and shield.

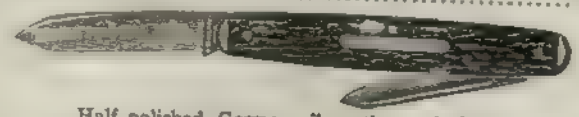
Per Dozen
No. B02337—2 blades, **Black Celluloid** handle, brass lined, 3⅝ in $11 50

Half polished blades.

Per Dozen
No. B0380—2 blades, **White Celluloid** handle, brass lined, 3⅝ in. $9 00
No. B0381—2 blades, **Stag** handle, brass lined, 3⅝ in..... 9.00

Half polished, German silver tips and shield

Per Dozen
No. B0381T—2 blades, **Stag** handle, brass lined, 3⅝ in..... $11 00
No. B20380—2 blades, **Catalina Pearl Celluloid** handle, brass lined, 3⅝ in..... 11.00

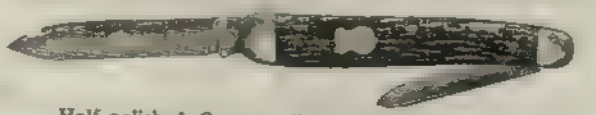


Half polished, German silver tips and shield.

Per Dozen
No. B02371—2 blades, **Stag** handle, brass lined, 3⅝ in..... $11 00

Half polished, German silver tips and shield.

Per Dozen
No. B02427—2 blades, **Stag** handle, brass lined, 3¼ in..... $12.00

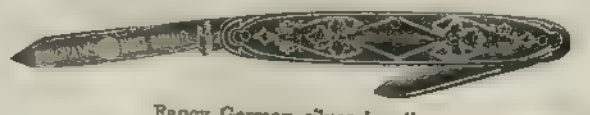


Half polished, German silver bolsters and shield.

Per Dozen
No. B02436—2 blades, **Stag** handle, brass lined, 3 in..... $10 00

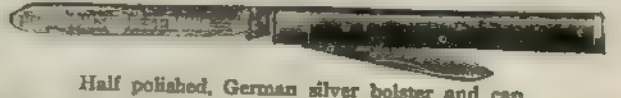
Half polished, German silver bolsters and shield

Per Dozen
No. B01878—2 blades, **White Celluloid** handle, brass lined, 3 in.. $11 00
No. B01879—2 blades, **Black Celluloid** handle, brass lined, 3 in.. 11.00



Fancy German silver handle.

Per Dozen
No. B0914—2 blades, **German Silver** handle, 3⅛ in..... $11 00



Half polished, German silver bolster and cap.

Per Dozen
No. B27003—2 blades, **Stag** handle, brass lined, 3⅝ in..... $13 00
No. B27001—2 blades **Black Celluloid** handle, brass lined, 3⅝ in. 13 00
No. B2103—2 blades, **Stag** handle, brass lined, 3¾ in..... 14.00

All Half Dozen in a Box

POCKET KNIVES

Highest Grade S. & C Wardlow's English Steel Blades, Uniformly Tempered, Sharpened and Whetted on an Oilstone Ready for Use.

Half polished, German silver bolsters and shield

Per Dozen

No. B3695—3 blades, **Cocoa** handle brass lined 3⅛ in $15 50

Half polished, German silver bolsters and shield

Per Dozen

No. B3796¾—3 blades, **Stag** handle, brass lined, 3⅛ in.....$16 00
No. B3796 —3 blades, **Black Celluloid** handle, brass lined, 1 large spear point, 2 pens, 3⅛ in..... 15 50

Half polished, German silver bolsters and shield

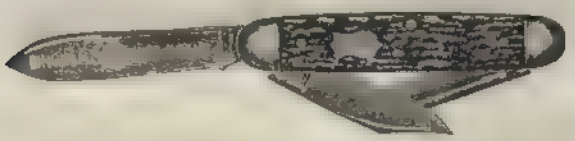
Per Dozen

No. B3266—3 blades **Ebony** handle, brass lined, 3⅛ in..... $18 00
No. B02266—2 blades, **Ebony** handle, brass lined, 1 large spear point, 1 pen, 3⅛ in..... 15.00

Half polished, German silver bolsters and shield.

Per Dozen

No. B1363¾—3 blades, **Ebony** handle, brass lined, 3⅛ in. $18.00



Half polished, German silver bolsters and shield

Per Dozen

No. B3378—3 blades, **Stag** handle, brass lined, 3⅛ in.... ..... .$18.00
No. B3478—3 blades, **Ebony** handle, brass lined, steel bolster, 3⅛ in. . .. .

Half polished, German silver bolsters and shield.

Per Dozen

No. B3337S—3 blades, **Stag** handle, brass lined, 3⅛ in.. . .$18 00

Half polished, German silver bolsters and shield.

Per Dozen

No. B8378—3 blades, **Stag** handle, brass lined, 3⅛ in.... .....$18.00

Half polished, German silver bolsters and shield

Per Dozen

No. B3651 3 blades **Ebony** handle, brass lined 3½ in... .....$15 50
No. B3653—3 blades, **Stag** handle, brass lined, 3½ in..... ... 16 00
No. B3676—3 blades, **Ebony** handle, brass lined, 3⅝ in... . ... 17 00

Half polished, German silver bolster, cap and shield

Per Dozen

No. B1303—3 blades, **Stag** handle, brass lined, 3⅝ in $14 00
No. B1301—2 brades, **Ebony** handle, brass lined, 3⅝ in..... 13.50

Half polished, German silver bolster, cap and shield

Per Dozen

No. B1311—2 blades, **Ebony** handle, brass lined, 3⅝ in.... .....$13 50
No. B1310—2 blades, **Stag** handle, brass lined, 3⅝ in. 14.00

Half polished, German silver bolster, cap and shield.

Per Dozen

No. B2148¾—2 blades, **Stag** handle, brass lined, 3⅞ in. $15 00

Per Dozen

No. B2148¼ 2 blades, **Stag** handle, brass lined 3⅞ in .. ..$.5.50

Half polished, German silver bolster, cap and shield.

Per Dozen

No. B2651—2 blades, **Ebony** handle, brass lined, 3¾ in.. .....$11.50
No. B2653—2 blades, **Stag** handle, brass lined, 3¾ in.... . . 13.50

Boys' Scout Knife.

Per Dozen

Half polished, German silver bolsters, shield and shackle.

No. B803—4 blades, **Stag** handle, brass lined, 3⅝ in.....$21.50

All Half Dozen in a Box

POCKET KNIVES

Highest Grade S. & C Wardlow's English Steel Blades, Uniformly Tempered, Sharpened and Whetted on an Oilstone Ready for Use.

Half polished, German silver bolster, cap and shield

Per Dozen

No. B826 —2 blades, **Ebony** handle, brass lined, 3⅞ in.....$14.00
No. B825 —2 blades, **Cocoa** handle, brass lined, 3½ in. .. 10 50
No. B825¾—2 blades, **Ebony** handle, brass lined, 3½ in., 1 large clip point, 1 pen 10 50

Half polished, German silver bolster, cap and shield

Per Dozen

No. B2715—2 blades, **Ebony** handle brass lined, 3⅞ in. $13 50

Half polished, German silver bolster and shield

Per Dozen

No. B2195¾—2 blades, **Ebony** handle, brass lined, 3⅞ in.....$12 00

Half polished, German silver bolsters and shield

Per Dozen

No. B0581—2 blades, **Black Celluloid** handle, brass lined 3⅝ in $13.50
No. B0583—2 blades, **Stag** handle, brass lined 3⅝ in..... 13.50
No. B20454—2 blades, **Catalina Pearl Celluloid** handle, brass lined, 3⅝ in..... 10 00
No. B20458—2 blades, **Congo Ivory Celluloid** handle, brass lined, 3⅝ in 10 00

Half polished, German silver bolsters and shield

Per Dozen

No. B0584¼ -2 blades, **Stag** handle, brass lined, 3⅝ in $10 00

Half polished, German silver bolster, cap and shield

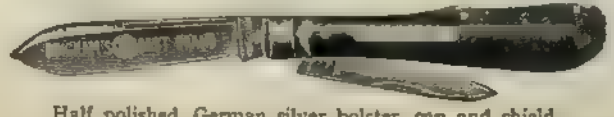
Per Dozen

No. B2178—2 blades, **Stag** handle, brass lined, 3⅝ in.....$10 00

Half polished, German silver bolster, cap and shield

Per Dozen

No. B2376—2 blades **Black Celluloid** handles, brass lined, 3⅝ in.$10 00



Half polished, German silver bolster, cap and shield

Per Dozen

No. B854—2 blades, **Ebony** handle, brass lined, 3½ in.....$10.00

Half polished, German silver bolster, cap and shield

Per Dozen

No. B2668¾ 2 blades, **Stag** handle, brass lined, 3⅝ in $12 00
No. B2666 2 blades **Ebony** handle, brass lined, 1 large spear point, 1 pen, 3⅝ in 11 50

Half polished, German silver bolster, cap and shield

Per Dozen

No. B2436¾ 2 blades, **Black Celluloid** handle, brass lined, 3¼ in .. ..

POCKET KNIVES

BBB

Highest Grade S & C Wardlow's English Steel Blades, Uniformly Tempered, Sharpened and Whetted on an Oilstone Ready for Use

Half polished, German silver bolster, cap and shield

Per Dozen

No. B2881¾—2 blades, **Ebony** handle, brass lined, 3½ in. $10.00
No. B2883¾—2 blades, **Stag** handle, brass lined, 3½ in. 10.50
No. B2880—2 blades, **Cocoa** handle, brass lined, 1 large spear point, 1 pen, 3½ in 10.00
No. B2883—2 blades **Stag** handle, brass lined, 3½ in 10.50

Glazed blades, steel bolster and cap

Per Dozen

No. B2723¾—2 blades **Stag** handle, brass lined, 3⅞ in. $11.50
No. B2721¾—2 blades **Ebony** handle, brass lined, 3⅞ in..... 11.00
No. B2722—2 blades, **Stag** handle, brass lined, 1 large spear point, 1 pen, 3⅞ in..... 11.50

Glazed blades, steel bolster and cap

Per Dozen

No. B2728¾—2 blades, **Stag** handle, brass lined, 3½ in. ... $11.50
No. B2726¾ 2 blades, **Ebony** handle, brass lined, 3½ in. .. . 11.00

Half polished, steel bolster and cap

Per Dozen

No. B2475—2 blades, **Cocobolo** handle, brass lined, 3⅝ in.....$10.50
No. B2476—2 blades, **Ebony** handle, brass lined, 3¾ in..... 10.50
No. B2478—2 blades, **Stag** handle, brass lined, 3¾ in..... 11.00

Half polished steel cap and bolster

Per Dozen

No. B2866—2 blades, **Ebony** handle, brass lined 3⅝ in.....$10.50
No. B2865—2 blades, **Cocobolo** handle brass lined, 3⅝ in..... 10.50
No. B2967 2 blades, **Stag** handle brass lined, German silver bolster and cap, 3⅝ in..... 11.00

Half polished, German silver bolster, cap and shield

Per Dozen

No. B198—2 blades, **Stag** handle brass lined, 3⅝ in.....$10.50
No. B196—2 blades, **Black Celluloid** handle, brass lined 3⅝ in. 10.50
No. B195C 2 blades **Silver Celluloid** handle, brass lined, 3⅝ in. 10.50

Half polished, German silver bolster, cap and shield

Per Dozen

No B2520 2 blades **White Celluloid** handle brass lined, 3¼ in.$11.00
No. B2523—2 blades, **Stag** handle, brass lined 3¼ in..... 11.00
No. B2521 2 blades **Ebony** handle, brass lined, 3¼ in..... .. 10.50
No. B22520—2 blades, **Congo Ivory** handle, black bolsters, brass lined, 3¼ in..... 10.00

Half polished, German silver bolster and cap

Per Dozen

No. B811C—2 blades, **Gray Horn Celluloid** handle, brass lined, 2⅞ in. $9.50
No B813 2 blades **Stag** handle, brass lined 2⅞ in.. .. .. 9.50

Half polished, German silver bolster, cap and shield

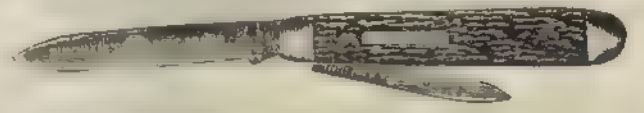
Per Dozen

No. B2823—2 blades, **Stag** handle, brass lined, 3 in.....$10.00
No. B2821 2 blades, **Black Celluloid** handle, brass lined, 3 in.. 10.00
No. B22821 2 blades, **Congo Ivory** handle, black bolsters, brass lined, 3 in 9.50

Half polished, German silver bolster, cap and shield

Per Dozen

No B177 2 blades **Black Celluloid** handle, brass lined 3 in....$10.50
No. B178—2 blades, **Stag** handle, brass lined, 3 in. 10.50



Half polished, German silver bolster, cap and shield

Per Dozen

No. B278—2 blades, **Stag** handle brass lined, 3¼ in.....$10.00
No. B277—2 blades **Black Celluloid** handle, brass lined, 3¼ in.. 10.00
No. B279—2 blades, **Gray Horn Celluloid** handle, brass lined, 3¼ in 10.00

Half polished, German silver bolster, cap and shield

Per Dozen

No. B8WC 2 blades **Shell Celluloid** handle, brass lined, 3¼ in $10.00
No. B28—2 blades, **Catalina Pearl Celluloid** handle, brass lined, 3⅛ in 10.00

Half polished, German silver bolster, cap and shield

Per Dozen

No. B2632—2 blades, **Gray Horn Celluloid** handle, brass lined, 3¼ in .. ..

POCKET KNIVES

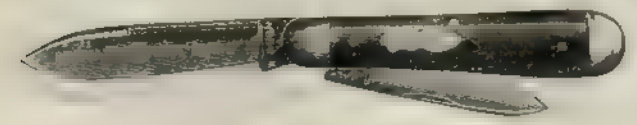
BBB

Highest Grade S & C Wardlow's English Steel Blades, Uniformly Tempered, Sharpened and Whetted on an Oilstone Ready for Use.

Half polished, black celluloid bolster and cap

Per Dozen

No. B21930—2 blades, **Congo Ivory** handle, brass lined, 3⅝ in..$10.00
No. B 1920—2 blades, **Marble Celluloid** handle, German silver bolster, brass lined, 3⅝ in..... 10.00



Half polished, steel bolster and cap

Per Dozen

No. B2156—2 blades, **Ebony** handle, brass lined, 3⅝ in.....$9.00

Half polished, steel bolster and cap

Per Dozen

No. B2631—2 blades **Ebony** handle, brass lined, 3¼ in.....$9.50
No. B2623—2 blades, **Stag** handle, brass lined, 3¼ in..... 9.50

Half polished, steel bolster and cap

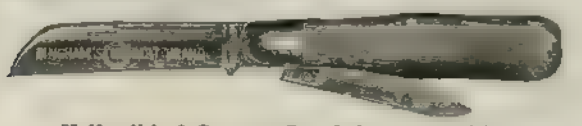
Per Dozen

No. B2983¾—2 blades, **Stag** handle, brass lined, 3¼ in.....$9.50
No. B2980 —2 blades, **Cocobolo** handle, brass lined, 1 large spear point, 1 pen, 3¼ in 9.50
No. B2983 —2 blades, **Stag** handle, brass lined, 3¼ in..... 9.50
No. B238 —2 blades, **Stag** handle, steel lined, 1 large spear blade, 1 pen, 3 in..... 8.00
No. B236 —2 blades, **Ebony** handle, steel lined, 1 large spear point, 1 pen, 3 in..... 8.00

Glazed blades, German silver bolster and shield

Per Dozen

No. B2950—2 blades, **Cocobolo** handle, brass lined, 3¾ in..$10.50
No. B2951—2 blades, **Ebony** handle, brass lined, 3¾ in..... 10.50
No. B3051—2 blades, **Ebony** handle, brass lined, steel bolster, 4 in 11.50



Half polished, German silver bolster and shield

Per Dozen

No B2390½—2 blades, **Cocoa** handle, brass lined, 3⅝ in.....$10.50
No. B2391—2 blades, **Ebony** handle, brass lined, 1 large saber spear point, 1 pen, 3⅝ in..... 10.50
No. B2390—2 blades, **Cocoa** handle, brass lined, 3⅝ in..... 10.50

Half polished, steel bolster and shield

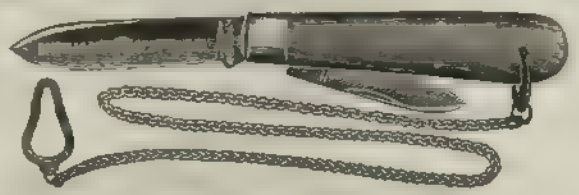
Per Dozen

No. B1318¾—2 blades, **Stag** handle, brass lined, 3⅝ in..... .$9.00
No. B1315¾—2 blades, **Cocobolo** handle, brass lined, 3⅝ in..... 9.00
No. B1318 —2 blades, **Stag** handle, brass lined, 1 large spear point, 1 pen, 3⅝ in..... 9.00
No. B1316 —2 blades, **Ebony** handle, brass lined, 3⅝ in..... 9.00

Glazed blades, steel bolster

Per Dozen

No. B0225—1 blade **Cocobolo** handle, steel lined, 3 in..... .....$4.00



Glazed blades, steel bolster

Per Dozen

No. B2615—2 blades, **Cocobolo** handle steel lined, 3⅝ in., 18 in. steel nickel plated chain.....$7.00

Glazed blades, steel bolster

Per Dozen

No. B105 —2 blades, **Cocobolo** handle, steel lined, 3¾ in..... .$7.00
No. B108 —2 blades, **Stag** handle, steel lined, 3⅝ in..... ..... 7.00
No. B105¾—2 blades, **Cocobolo** handle, steel lined, 1 large clip point, 1 pen, 3⅝ in..... 7.00
No. B108¾—2 blades, **Stag** handle, steel lined 3⅝ in..... 7.00

Glazed blades, steel bolster

Per Dozen

No. B206¾—2 blades, **Ebony** handle, brass lined, 3⅝ in $7.00
No. B206 —2 blades, **Cocobolo** handle, brass lined, 1 large spear point, 1 pen, 3⅝ in..... 7.00
No. B213 —2 blades, **Stag** handle, brass lined, 3⅝ in..... 7.00

Half polished, steel bolster

Per Dozen

No. B1215 —1 blade, **Cocobolo** handle, steel lined, 3⅝ in $5.70
No. B1215½—1 blade **Cocobolo** handle, steel lined, 1 large sheep foot point, 3⅝ in..... 5.70
No. B1215¾—1 blade, **Cocobolo** handle, steel lined, 1 large clip point, 3⅝ in..... 5.70

Half polished, steel bolster

Per Dozen

No. B1640—1 blade, **Cocobolo** handle, steel lined, 3⅝ in $5.70
No. B2640—2 blades, **Cocobolo** handle, steel lined, 1 large spey point, 1 pen, 3⅝ in..... 7.00

Glazed blades, steel bolster

Per Dozen

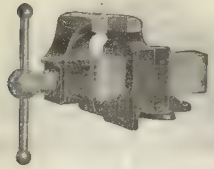
No. B610—2 blades, **Brown Bone** handle, steel lined 3⅝ in. $7.00
No. B611—2 blades, **Brown Bone** handle, steel lined, 1 large clip point, 1 pen 3⅝ in..... 7.00
No. B601—1 blade, **Brown Bone** handle, steel lined, clip point, 3⅝ in. 4.00

All Half Dozen in a Box

VISES.

PRENTISS MACHINISTS'.

BULL DOG, STATIONARY BOTTOM.

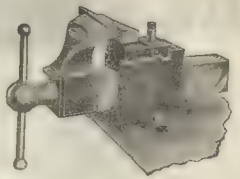


Machinists' solid jaw parallel vises; jaws polished and checked; japanned body; polished handle and screw; none better made.

Nos.	207	209
Width of jaws, inches	2	3
Jaws open, inches	2	2¾
Weight each, pounds	4½	9
Each	$8.25	9.00

Nos	50BD	51BD	52BD	53BD
Width of jaws, inches	3¼	3⅝	4⅛	4⅝
Jaws open, inches	4	5½	6	7
Weight each, lbs	22	28	42	52
Each	$10.00	11.25	12.75	15.50

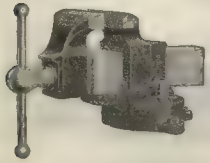
SELF-ADJUSTING JAWS, STATIONARY BOTTOM.



Polished and checked milled steel faced jaws, self-adjusting; polished extra heavy slide bar; japanned cast iron body; rear jaw is self-adjusting for holding odd surfaces, but can be made stationary by inserting pin as shown in illustration.

Nos.	2	2½	3	4	5
Width of jaws, in.	3½	4	4½	5¼	6
Jaws open, inches	4¾	5¼	6	8	8
Weight, pounds	28	41	54	96	146
Each	$16.00	19.00	22.00	35.00	50.00

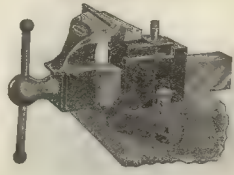
BULL DOG, SWIVEL BOTTOM.



Machinists' solid jaw parallel vises; jaws polished and checked; japanned body; polished handle and screw; none better made.

Nos.	90BD	91BD	92BD	93BD	94BD
Width of jaws, inches	3¼	3⅝	4⅛	4⅝	5
Jaws open, inches	4	5½	6	7	8
Weight each, lbs	28	36	52	64	85
Each	$13.00	15.00	17.00	20.00	30.00

SELF-ADJUSTING JAWS, SWIVEL BOTTOM.



Polished and checked milled steel faced jaws, self-adjusting; polished extra heavy slide bar; japanned cast iron body; rear jaw is self-adjusting for holding odd surfaces, but can be made stationary by inserting pin as shown in illustration.

Nos.	19	19¼	20	21	22
Width of jaws, in.	3½	4	4½	5¼	6
Jaws open, in.	4¾	5¼	6	8	9
Weight, pounds	32	46	65	109	168
Each	$20 00	24.00	28.00	44.00	66.00

In bulk.

LITTLE GIANT.

Sectional view of die and collet.

Die and Collet.—The collet, or holder, is made of two pieces called a cap and a guide. The cap has a bevel slot into which the bevel of the die is fitted. The guide is screwed into the cap, which throws the die into the bevel of the collet, and into line. To adjust, simply turn the screws at the ends of the dies in or out, as the adjustment requires.

The important feature of this adjustable die is its solidity; the impossibility of stripping of threads; its perfect adjustment; its simplicity, durability and strength; doing away with all taper pointed and cup headed screws common to many makes of dies.

FULL STOCKED.

¼ to ¾ inch—7 sizes.

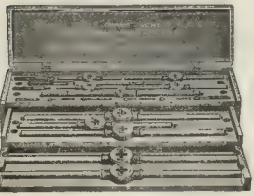
Each.

Assortment No. 65—Cutting 7 sizes: ¼, ⅜, ½, ⅝, ¾, ⅞ and 1 inch, complete in case, with adjustable tap wrench $34.50

Weight ..... 26 pounds

Sizes							
Inches	¼	⅜	½	⅝	¾	⅞	1
Threads	20	18	16	14	13	11	10

A stock for each size die.



¼ to 1 inch—9 sizes.

Each

Assortment No. 67—Cutting 9 sizes: ¼, ⅜, ½, ⅝, ¾, ⅞, 1 inch, complete in case, with 2 adjustable tap wrenches $54.00

Weight ..... 40 pounds

Sizes									
Inches	¼	⅜	½	⅝	¾	⅞	1	1⅛	1¼
Threads	20	18	16	14	13	11	10	9	8

A stock for each size die.

U. S. standard threads furnished unless otherwise ordered.
V oversized threads can be supplied from factory, but are not recommended.

ADJUSTABLE DIE.

¼ to ¾ inch—7 sizes.

Each.

Assortment No. 5—Cutting 7 sizes: ¼, ⅜, ⅜, ½, ⅝ and ¾ inch, complete in case, with adjustable tap wrench $27.50

Weight ..... 22 pounds

Length of stock ..... 23 inches

Sizes							
Inches	¼	⅜	⅜	½	⅝	¾	
Threads	20	18	16	14	13	11	10

¼ to 1 inch—8 sizes.

Each.

Assortment No. 7—Cutting 9 sizes: ¼, ⅜, ⅜, ½, ⅝, ¾, ⅞ and 1 inch, complete in case, with 2 adjustable tap wrenches $42.00

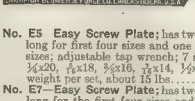
Weight ..... 28 pounds

Length of stock ..... 26 inches

Sizes									
Inches	¼	⅜	⅜	½	⅝	¾	⅞	1	
Threads	20	18	16	14	13	11	10	9	8

EASY.

U. S. STANDARD.



Extra fine tool steel; one piece split adjustable dies; fitted in hardwood boxes; machine relieved taps; makes a perfect screw at a single cut.

Each

No. E5 Easy Screw Plate; has two stocks, one 15½ inches long for first four sizes and one 23 inches long for large sizes; adjustable tap wrench; 7 assorted dies as follows: ¼x20, ⅜x18, ⅜x16, ½x14, ½x13, ⅝x11 and ¾x10; weight per set, about 15 lbs. $21.00

No. E7—Easy Screw Plate; has two stocks, one 15½ inches long for the first four sizes and one 26 inches long for larger sizes; adjustable tap wrench; 9 assorted dies as follows: ¼x20, ⅜x18, ⅜x16, ½x14, ½x13, ⅝x11, ¾x10, ⅞x9 and 1x8; weight per set, about 20 lbs. 31.00

No. E55—Easy Screw Plate; stock with each die; with adjustable tap wrench; cutting ¼x20, ⅜x18, ⅜x14, ½x13, ⅝x11, ¾x10; weight per set, 27 lbs. 28.00

One complete set in a hardwood box

Front and back jaws forged from one piece special ingot steel; jaw facings of crucible tool steel and welded far enough down to relieve any possible strain. The jaws' faces are accurately ground and polished. Unfinished parts painted with heavy coat of pure asphaltum paint. Polished parts wrapped in burlap.

Nos	35	50	70
Vise opens, ins.	3¾	4½	5¼
Weight each, lbs.	35	50	70
Width of jaws, ins.	3¼	4½	5¼
Each	$10.00	11.50	15.00

In bulk.

COMBINATION VISES AND ANVILS.

DIAMOND.

Cast iron body, head slide and horn; hardened face and anvil; polished steel faced jaws; painted green.

No.	D
Face of anvil, inches	4½x2⅞
Width of jaws, inches	4
Jaws open, inches	6
Weight crated, lbs.	45
Each	$6.00

One in a case.

FARMER.

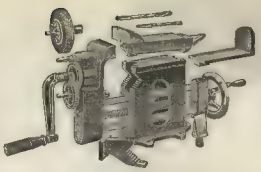
Body made of an alloy mixture of best Northern iron and steel; steel screw with cut threads; steel nut and cold rolled steel handle; anvil and all finished parts polished and lacquered; japanned finish body.

No.	1
Face of anvil, inches	7x2¾
Width of jaws, inches	2¾
Jaws open, inches	5¼
Weight, lbs.	24
Each	$2.30

In bulk.

HANDY WORKER.

STEWART



Stewart Handy Worker is a combination of tools in one. It is a complete and compact workshop that can be attached to a table or bench. Consists of the following tools:

A strong and powerful vise, up to 4½ in., width of jaw 4 ins. Cutting hardie. Pipe vise takes up to 1½ inch pipe. Drill press which can be operated at two speeds. Good sized anvil. Corborundum grinding wheel, 5 inches by 1 inch. Three speeds, direct, 4 to 1 and 16 to 1. Entire device is green japanned finish.

Each

No. 6T—Height 13 inches, extreme width 29 inches, shipping weight packed 90 lbs. **$28.00**

One in a box.

ANVILS.

HAY-BUDDEN.

Best American wrought iron body, faced with best crucible cast steel, warranted sound, free from flaws. Faces hard and true. Hardy hole, 25 to 60 lbs., ⅝ 70 to 104 pounds, ¾ in.; 106 to 140 pounds, ⅞ in.; 142 lbs. 1 in.; 190 lbs. 1⅛ in.

Weight, lbs.	70	100	125	150	200
Per pound	$0.52	.50	.50	.50	.50

VULCAN.

Solid tool steel face, thoroughly welded to body by patented process; accurately ground and tempered. The horn is covered with tough untempered steel.

Each

No. 8—**Vulcan Anvil**; tool steel face; superior pig iron body; ⅝ inch hardy hole; weight each, 80 lbs. **$8.00**

In bulk.

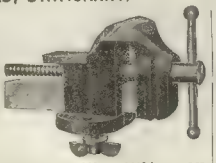
SHEPARD, CLAMP.

Japanned cast iron body; welded steel face; hardened steel slide bars; polished and checked.

Nos.	152	153	154
Width of jaws, ins.	1½	1¾	2
Jaws open, ins.	1½	1¾	2
Weight each, lbs.	1½	2½	3
Each	$1.00	1.25	1.60

In bulk.

SHEPARD, STATIONARY.



Cast iron body; inserted steel jaws; steel slide bar; central bolt, nut and washer for fastening to bench, also provided with bolt holes for permanently securing to bench.

Nos.	161	161½	162
Width of jaws, inches	2½	3	3½
Jaws open, inches	3	3½	4
Weight each, lbs.	10	12	16
Each	$3.75	4.75	5.25

In bulk.

GIPSY.

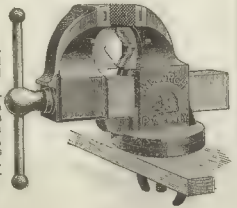
Polished jaws, hardened and checked.

Nos.	G65	G66	G67
Width of jaws, in.	2½	3½	4
Jaws open, in.	3	4	6
Weight each, lbs.	8	14	28
Each	$3.00	5.00	8.00

In bulk.

PRENTISS' MONARCH.

SWIVEL BOTTOM



Swivel bottom, reversible milled steel jaws, polished and checked

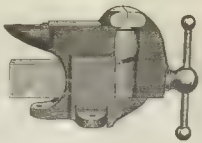
A good, strong, serviceable combination pipe vise. Pipe jaws cut and milled from best quality of steel, and are reversible thus giving double wear. Quality and finish unsurpassed.

Nos.	180	180½	181	182
Width of jaws, inches	2½	3	3½	4½
Holds pipe, inches	⅛ to 1	⅛ to 1½	⅛ to 2½	⅛ to 3
Weight, lbs.	15	22	55	80
Each	$10.00	12.00	16.00	22.00

In bulk

AUTO VISE.

STATIONARY.



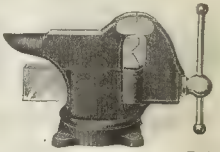
Stationary bottom, suitable for all kinds of repair work, especially adapted for auto use; castings are semi steel; jaws are hardened tool steel polished; body is japanned finish.

Each

No. 231—Width of jaws, 3 inches; capacity pipe, ⅛ to 1½ inches; weight, 32 lbs. $10 00

No. 232—Width of jaws, 3½ inches; capacity pipe ⅛ to 2 inches; weight, 65 lbs. 14.00

SWIVEL BOTTOM.



Has swivel bottom, suitable for all kinds of repair work, especially adapted for automobile use; castings are semi steel; jaws are hardened tool steel polished; body is japanned finish.

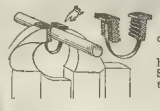
Each

No. 240—Width of jaws, 3 inches; capacity of pipe, ⅛ to 2½ inches; weight, 42 lbs. $13.00

No. 241—Width of jaws, 3½ inches; capacity pipe, ⅛ to 2½ inches; weight, 80 lbs 16 00

VISE JAWS.

ELGIN.



Cast japanned pipe jaws for use in connection with any size vise.

Can be attached instantly and will hold pipe up to 1¼ inches in diameter. Strong center spring holds jaws firmly to jaws of vise.

Per Dozen

No. 75—Vise Jaws; dimensions of jaws, 1½x1½ inches; weight per dozen, 7 lbs. $4.00

One dozen in a box with display card.

PIPE VISES.

PRENTISS' MAGIC

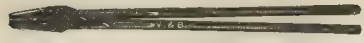
HINGED.

Japanned malleable iron, interchangeable cut steel jaws, constructed to do the heaviest work; polished steel screw and sliding handle; polished jaws; fully warranted

Nos.	111	112
Holds pipe, ins.	⅛ to 2½	⅛ to 3½
Weight, lbs.	9	15
Each	$5.00	7.50

In bulk

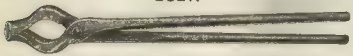
STRAIGHT LIP.



No. 417—Solid steel, drop forged, oil finish.

Length, inches	18	20	22
Weight per pair, lbs	2	2½	3
Per dozen	$8.00	8.50	9.00

BOLT.



No. 416—For holding bolts and round iron; solid steel, drop forged, oil finish.

Size of iron, inches	⅝	¾
Length, inches	22	22
Weight per pair, lbs	3½	3½
Per dozen	$15.00	15.00

BOLT CLIPPERS.

PORTER'S "NEW EASY."

For cutting bolts, nuts, rivets, wire, etc.; tempered oil finish; detachable cast steel cutting jaws; japanned cast iron compound lever handles with socket joints; rubber bumpers between handles.

Nos.	0	1	2	3
Cuts bolts, inches	3/16	¼	5/16	⅜
Length, inches	18	24½	30	36
Weight each, lbs	3	5¾	9	13
Each	$3.75	5.00	7.00	9.00

In bulk.

BOLT CUTTERS.

PORTER'S "O. K."

Made with the utmost care of best grade material. All parts are interchangeable and there is ample adjustment to take up the wear on the cutting edge. Handles made of malleable iron, jaws of high grade highly tempered tool steel. Japanned finish.

Each

No. 10—O. K. Capacity with Clipper Cut Jaws, 5/16-in. annealed bolts in the thread, or ⅜-in. soft rivets; capacity with Center Cut Jaws, ⅞-in. soft rods; length, 10 inches; weight each, 1½ lbs $1.75

No. 14—O. K. Capacity with Clipper Cut Jaws, ¼-in. annealed bolts in the thread, or ¼-in. soft rivets; capacity with Center Cut Jaws, ¾-in. soft rods; length, 14 inches; weight each, 2½ lbs..... 2.15

All above in bulk

TIRE SHRINKERS.

MOLE.

This is recognized as one of the best shrinkers on the market. Can be operated by one man; made of the best material and thoroughly tested before leaving the factory. The jaws are chilled and the machine fitted with the improved anti-kinking device.

Nos	2	3
Size of bed, inches	3	4
Weight, lbs	215	285
Each	$12.50	15.00

In bulk.

HARDIES.

Solid forged steel; oil tempered; polished bit; oil finished body.

Width of bit, ins.	⅝	¾	⅞	1
Length, inches	4½	5	5¼	5¼
Face, ins.	1⅝	1⅝	2	2
Weight, each.	12 oz.	14 oz.	1 lb. 7 oz.	1 lb. 10 oz.
Per dozen	$4.95	5.40	6.30	7.20

HOT CHISELS.

Solid forged steel; oil tempered; polished bits; oil finished body.

Width of bit, ins.	1⅛	1⅜	1½
Length, ins.	7¼	8¼	8½
Weight, each	1 lb. 14 oz.	2 lb. 6 oz.	2 lb. 14 oz.
Per dozen	$7.20	9.00	10.80

COLD CHISELS.

Solid forged steel; oil tempered; polished bits; oil finished body.

Width of bit, inches.	1⅛	1⅜	1½
Length, inches	6½	7	7¾
Weight, each	2 lb.	2 lb. 8 oz.	3 lb.
Per dozen	$7.20	9.00	10.80

CREASERS.

Solid forged steel; oil tempered; polished bits; oil finished body.

Width of bit, inches	1
Length, inches	7
Weight, each	1 lb.
Per dozen	$13.00

SET HAMMERS.

Solid forged steel; hardened and polished faces; oil finished body.

Size of face, ins. sq.	1	1¼	1½	2
Length, inches	5	5	5½	6
Weight, each	1 lb.	1 lb. 10 oz.	3 lb.	4 lb. 4 oz.
Per dozen	$7.20	9.00	11.70	18.00

FLATTERS.

Solid forged steel; hardened and polished faces; oil tempered body.

Size of face, ins.	2	2½	3
Length, inches	4½	5	5½
Weight, each	2 lbs.	2½ lbs.	4¼ lbs.
Per dozen	$10.80	14.40	18.00

TOP SWAGES.

Solid forged steel; oil tempered; polished bit; oil finished body.

Average length 5 to 6½ inches.

Inches	¼ to ⅞	⅝	¾	⅞	1
Weight, ea., lbs.	1⅝	2¼	2½	2½	2½
Per dozen	$9.00	9.90	11.70	11.70	11.70

Inches	1⅛	1¼	1⅜	1½	1⅝	1¾	1⅞
Weight, each, lbs.	3	3	3½	4	4	4	4
Per dozen	$13.50	13.50	15.30	15.30	15.30	17.10	17.10

Inches	2	2¼	2½	2¾	3	3½	4
Wgt., each, lbs.	4	4	5¼	6¾	7	7	7
Per dozen	$17.10	18.90	20.70	21.60	23.40	25.20	27.00

BOTTOM SWAGES.

Solid forged steel; oil tempered; polished bits; oil finished body. Shank to fit one-inch hole in anvil. Average length 5 to 6½ inches.

Inches	¼ to ⅞	⅝	¾	⅞	1
Wgt., ea., lbs.	2	2¼	2½	2⅝	.....
Per dozen	$9.00	9.00	11.70	11.70	11.70

Inches	1⅛	1¼	1⅜	1½	1⅝	1¾	1⅞
Weight, ea., lbs.	...	...	...	...	...	...	...
Per dozen	$13.50	13.50	15.30	15.30	15.30	17.10	17.10

Inches	2	2¼	2½	2¾	3	3½	4
Wgt., ea., lbs.	...	...	...	...	...	...	...
Per dozen	$17.10	18.90	20.70	21.60	23.40	25.20	27.00

In bulk.

CHICAGO.

No. 150.

No. 151.

For outdoor work, light repairing and farmers' use.

Each.

No. 150—The operating principle is a most positive and simple device. The ratchet never slips and a strong blast is obtained with slow lever motion. Nothing about it to get out of order; hearth, 18 inches; height, 33 inches; weight, 65 pounds.....$10.00

No. 151—Same as No. 150, but with half open hood; weight, 70 pounds..... 12.00

CHALLENGE.

From factory, Chicago delivery.

For bicycle repair shops, toolmakers, tin shops, plumbers and all light repair shops.

Each

*No. 5—Has capacity to heat 2-inch iron; adapted to small hardware work; fan, 9½ inches; hearth, 22 inches; height, 33 inches; weight, 125 lbs.....$16.50

*No. 5¼—Same as No. 5, with full enclosed hood..... 20.20

WESTERN CHIEF.

For bridge builders, railroads, quarries, etc.; especially adapted for outdoor work, where hood is not needed. Capacity to heat 3½-inch iron.

Each.

*No. 102—Best and highest grade throughout; Royal blower, crank turns forward or backward; duck nest fire pot; blower, 10 inches; hearth, 23x34 inches; height, 30 inches; weight each, 180 lbs...$38.20

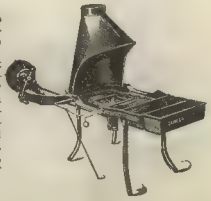
For horseshoers, small blacksmith shops, etc.; capacity to heat, 3½-inch iron.

Each.

*No. 103—Best and highest grade throughout; Royal blower, crank turns forward or backward; duck nest fire pot; blower, 10 inches; hearth, 23x34 inches; height, 30 inches; weight each, 185 lbs....$42.20

Largest portable forge made; capacity to heat 4-inch iron; adapted to the largest, heaviest work.

Solid, heavy fire pot with Tuyere Ball, furnishing side and center blast, all separate from hearth, no clay necessary; 12-inch Royal blower, crank turns forward or backward; hearth, 31½x45½ inches; height, 30 inches; length over all, 53 inches.

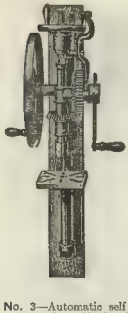


Each

*No. 100—With one tank; weight each, 295 lbs.....$45.00

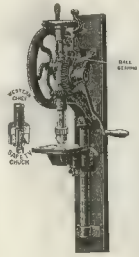
*No. 100ET—With extra tank (as illustrated); weight each, 325 lbs 50.00

*For shipment from factory only.



Each

No. 0—Automatic self feed drill; polished, well fitted bearings; cogs faced and polished; compressed steel, high grade shafting; drills to center of 12-inch circle; up and down rim of spindle, 2¾ inches; up and down rim of table, 9½ inches; greatest distance from table to spindle, 9½ inches; takes bits with ½-inch shanks; weight each, 75 lbs **$11.00**

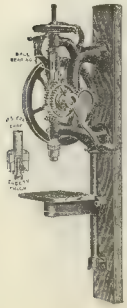


Each

No. 3—Automatic self feed drill; polished, well fitted bearings; cogs faced and polished; compressed steel, high grade shafting; drills to center of 14½-inch circle; up and down rim of spindle, 3½ inches; up and down rim of table, 11 inches; greatest distance from table to spindle, 10½ inches; size of pulleys for power, 8x2½ inches; revolutions, 200 per minute; spindle bored for ½ or 41/64 inch shank bits, as ordered. **$15.50**

***Power Attachment**—Tight and loose pulley **4.00**

Weight, 100 lbs.

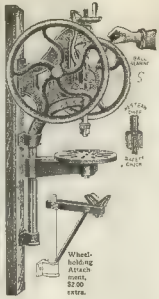


Each.

No. 1—Three changes of speed to the feed; slow, medium and fast; quick return. Two changes of speed, fast and slow, for light or heavy work. Rotating, slotted, swinging table. Drilling, returning and removing chips done with one motion, without stopping machine. Bores to center of 15 inch circle, from 0 to 1½ inches; takes bits ½ or 41-64 shank as ordered. **$26.00**

***Power Attachment**—Tight and loose pulley **4.00**

Weight, 135 pounds.



Each.

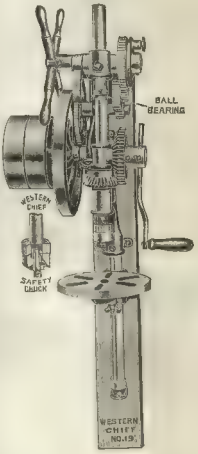
***No. 15**—Best material and workmanship; two speeds, fast and slow, for light or heavy work; self feed, cut gears, back geared, two-side fly wheels; has all the features of the highest grade drills; bores to center of 18 inch circle, from 0 to 1½ inches; takes bits ½ or 41-64 shank, as ordered; hand power only . . . **$29.70**

F. O. B. Chicago.

***No. 15P**—Same as No. 15, but with hand and pulley power **34.00**

F. O. B. Chicago.

Weight, 175 pounds.



A combined hand and self feed drill adapted to ordinary shop use. Hand and self feed are independent of each other, and for quick work, such as wood boring it is unsurpassed as bit is quick lifter.

Drills to center of 16½ inch circle. Bores 0 to 1¼ inch. Up and down run of spindle, 5½ inches. Up and down run of table, 11 inches. Greatest distance from table to spindle, 14 inches. Size of pulleys 8x2 inches. Should run 180 to 200 revolutions per minute.

On hand power machine, shaft is left extended so pulleys may be placed at any time. Spindle bored for ½ or 41-64 inch shank bits as ordered.

Each.

***No. 19U—Hand;** weight each, 130 lbs. **$24.50**

F. O. B. Chicago Hghts.

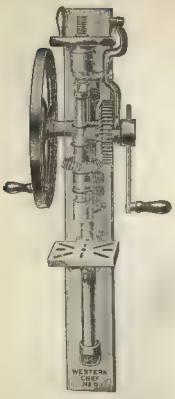
***No. 19UP—Hand and Power;** with pulleys, otherwise same as No. 19U; weight each, 140 lbs. **28.70**

F. O. B. Chicago Hghts

Stock sizes take No. 112 half-inch shank Drill Bits.
Drills fitted for ½ inch shank always sent unless otherwise ordered.
***For shipment from factory only.**
The Minnesota State Law now requires all Power Drills to be equipped with Gear Guards.

BLACKSMITHS' SETS.

AGRICULTURAL.



A FULL SET OF BLACKSMITHS' TOOLS FOR THE FARMER, RANCHER OR LUMBERMAN.

1 only **No. 150 Forge**, with shield; height of forge, 30 inches; diameter of hearth, 17 inches; diameter of fan, 8 inches; shipping weight, 79 lbs.

1 only **No. 37A Blacksmiths' stock and die**, cutting ⅜ to ¾ inch; 6 taps; 3 sets dies; 12, 14 and 16 threads to inch; weight each, 2 lbs.

1 only **30 lb. Hay Budden Anvil** with best American wrought iron body, faced with best crucible cast steel.

1 only **No. 1 Horizontal Drill**, for bit stock drills; weight each, 31 lbs.

1 only **No. 1 Farmers' Vise**, made of best Northern iron and steel; weight each, 24 lbs.

1 only **No. 212V & B, 12-inch hoof parers**, drop forged, oil tempered, polished jaws; weight each, 2 lbs.

1 only **No. 417, straight lip, 18 inch, Blacksmith Tongs**, solid steel, drop forged, oil finish; weight each, 2 lbs.

1 only **No. 728 Henry Sears & Son Farriers' Knives**; weight each, ½ lb.

1 only **No. 652 Riverside Shoeing Hammer**, polished, round pattern, crucible cast steel, 2d growth hickory handle; weight each, 11 oz.

1 only **No. 720 Blacksmith Hammers**, forged from solid crucible cast steel tempered by hand, polished; selected hickory handles; weight each, 1 lb. 4 oz.

Per Set

No 1—Agricultural Blacksmiths' Set, as enumerated above; weight about 175 lbs.....

1 only **No. 150 Forge**, with shield; height of forge, 30 inches; diameter of hearth, 17 inches; diameter of fan, 8 inches; shipping weight, 79 lbs.

1 only **No. 0, Western Chief Upright Drill**, self feed; drills to center of 12-in. circle; up and down run of spindle, 2¾ ins.; up and down run of table, 9½ inches; greatest distance from table to spindle, 9½ inches; take bits with ½-inch shanks; weight each, 75 lbs.

1 only **No. 35—Solid Box Vise**, width of jaws 3¾ inches, weight each 35 lbs.

1 only **No. 8—Vulcan Anvil**, tool steel face; superior pig iron body; ⅝ inch hardy hole; weight each 80 lbs.

1 only **⅝ inch hardy**, solid cast steel, oil finish; to fit anvil, weight each 1½ oz.

1 only **No. 37A—Alacksmith's Stock and Die**, cutting ⅜ to ¾ inch; 6 taps; 3 sets dies; 12, 14 and 16 threads to inch; weight each 2 lbs.

5 only **No. 112—Blacksmith drills**, ½ inch shank; sizes ¼, ⅜, ⅜, ½ and ⅝ inch.

1 only **No. 861—Blacksmith hand hammer**; solid cast steel; oil finish; weight each 2 lbs.

1 only **No. 652—Riverside Shoeing Hammer**, polished, round pattern, crucible cast steel, 2d growth hickory handles, weight each 11 oz.

1 only **No. 830—Blacksmith Sledge**, solid cast steel, oil finish weight each 6 lbs.

1 only **No. 1 Plain Sledge Handle**, turned oval hickory, length 36 inches.

1 only **Regular—Cold Chisel**, octagon, cast steel, ⅜ inch.

1 only Pair **RB14 Blacksmith Pincers**; length, 14 inches.

1 only Pair **No. 30—Hoof Cutting Nippers, V. & B.**, oil finish, solid steel, length 12 inches.

1 only **No. 728—Henry Sears & Son Farriers Knives.**

1 only Pair **No. 417—Blacksmith Tongs**, straight lip, drop forged, solid steel, length 18 inches.

Per Set

No. 2—Agricultural Blacksmiths' Set, as enumerated above; weight about 300 lbs.....

PORTABLE FORGES.

TIGER.

Built to meet the increasing demand for a crank gear forge similar to the Royal at a price comparing favorably with the price of lever type forge.

Each

*No. 254—Forge; blower, 9 inches; hearth, 22 inches; height, 30 inches; weight, 80 lbs. $22.00

Especially built to meet the demand for a crank gear forge similar in design to the Royal, but lower in price.

Equipped with large, roomy firepot, conveniently shaped hearth and splendid blast.

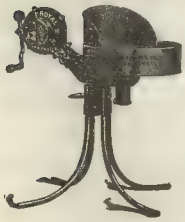
A good, serviceable forge at a low cost.

Each

*No. 253—Forge; blower, 9 inches; hearth, 25x26 inches; height, 30 inches; weight, 180 lbs. $28.00

ROYAL.

STEEL.



For boilermakers, rivet work, mines, quarries, armies, navies, etc. Crank turns forward or backward. Capacity to heat, 3½-inch iron.

Genuine Royal Forge. Can be knocked down and packed in box 22x24x9 inches. The best army and navy forge made.

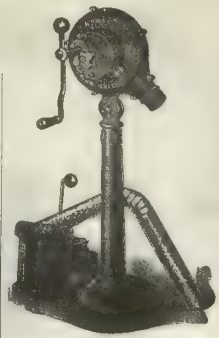
Each

*No. 60—Royal Forge; blower, 10 inches; hearth, 18 inches; height, 30 inches; weight, 90 lbs. $32.00

*No. 40—Royal Forge; blower, 10 inches; hearth, 22 ins.; height 30 inches; weight, 95 lbs. 38.00

BLOWERS.

ROYAL WESTERN CHIEF.



Powerful and positive, steady blast, handsomest, simplest and best blower.

Each.

Royal Western Chief — Crank movement, phosphor-bronze and steel gears, composition bearings, oil and dust proof gear case, no-clay firepot. Fan, 12 in.; weight, 145 lbs.; complete as shown $32.00

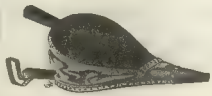
BELLOWS.

HAND.

Single fold, hardwood boards black grained, handle extension, leather loop for fastening, sheepskin folds, leather valve cap.

	H8	H10
Nos.		
Width, inches	8	10
Weight per dozen, pounds	20	26
Per Dozen	$16.00	20.00

MOULDERS'.

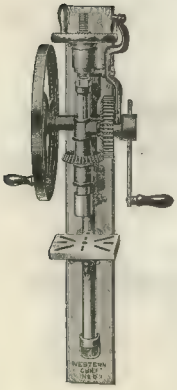


Hardwood boards, sheepskin folds, leather loop; faced with sheepskin leather stripe.

Nos.	M10	M12
Width, inches	10	12
Weight per dozen, pounds	22	39
Per Dozen	$23.50	30.00

*For factory shipment only. F. O. B. Chicago, Ill.

A FULL SET OF BLACKSMITHS' TOOLS FOR THE FARMER, RANCHER OR LUMBERMAN.



1 only **No. 151—Forge,** with open hood; height of forge, 30 inches; diam. of hearth, 17 inches; diam. of fan; 8 ins.; shipping weight each, 82 lbs.

1 only **No. 3 Western Chief Upright Drill,** automatic self-feed, polished bearings and cogs; drills to center of 14½-inch circle; up and down run of spindle, 3½ ins.; up and down run of table, 11 ins.; greatest distance from table to spindle, 10½ ins.; weight, 100 lbs.

1 only **No. 35 Solid Box Vise;** weight each, 35 lbs.

1 only **No. 8—Vulcan Anvil,** tool steel face; superior pig iron body; ⅝-in. hardy hole; weight, 80 lbs.

1 only **⅝-inch hardy,** solid cast steel, oil finish, to fit anvil; weight, 12 oz.

1 only **No. 37A Blacksmith stock and die,** cutting ⅜ to ¾ inch; 6 taps; 3 sets dies; 12, 14 and 16 threads to inch; weight each, 2 lbs.

5 only **No. 112 Blacksmith drills,** with ½-inch shanks, 2¼ ins. long; sizes as follows: ¼, ⅜, ⅝, ½ and ⅝ inch; weight, 3 lbs.

1 only **No. 861, 2-pound Blacksmith Hammers,** solid cast steel; oil finish; weight, 2 lbs.

1 only **No. 830 Blacksmith Sledge,** solid cast steel, oil finish; weight, 6 lbs.

1 only **No. 652 Riverside Shoeing Hammer,** polished, round pattern, crucible cast steel, second growth hickory handles; weight, 11 oz.

1 only **No. 1 Plain Sledge Handle,** turned oval hickory; length, 36 inches; weight, 3 lbs.

1 only **⅜-inch Regular Cold Chisel,** octagon, cast steel; weight each, 1 lb.

1 only **No. 212 V. & B., 12-inch Hoof Parers,** drop forged, oil tempered, polished jaws; weight, 2 lbs.

1 only pair **No. 30 V. & B. Hoof Cutting Nippers,** oil finish, solid steel; length, 12 ins.; weight, 2 lbs.

1 only **No. 728 Henry Sears & Son Farriers' Knives;** weight each, ½ lb.

1 only **No. 417, straight lip, 18-inch Blacksmith Tongs,** solid steel, drop forged, oil finish; weight 2 lbs.

1 only **No. 1 Bolt Clipper;** length, 24 ins.; cuts bolts up to ⅜ inch; weight, 4¼ lbs.

1 only **14-in. Riverside Horse Rasp;** weight, ½ lb.

1 only **No. 20 Blacksmith Apron,** muleskin trimmed; weight, 2½ lbs.

1 only **1¼-in. Hot Chisel;** weight, 1 lb. 14 oz.

1 only **1¼-in. Cold Chisel;** weight. 2 lbs.

Per Set

No. 3—Agricultural Blacksmiths' Set, as enumerated above, weight about 340 lbs.....

FINE GENUINE RICH AMERICAN CUT GLASS

NOTICE: Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns shown on preceding pages as a suggestion in anticipation of your wants.

In the quality of Colors and in the delicacy upon which the decorative value of glass depends, our glass shows distinctive beauty unsurpassed.

TUMBLERS
Height 4 inches
No. 4582
Doz. $25.00

WATER SET
Set consists of one Water Jug or Pitcher, height 10½ inches, capacity 4 pints, six Tumblers, height 4 inches, and one footed 14-inch rich Mirror Plateaux, burnished silver plated border.
No. 4581 Complete as illustrated. $43 75

JUG
No. 4583 3 pint, height 8½ inches, each..... $11.25
No. 4584 4 pint, height 10½ inches, each... 13.75

The acme of perfection accomplished with utmost care by master hands at factory.

TUMBLERS
Height 4 inches
No. 4586
Per doz., $40.00

WATER SET
Set consists of one Water Jug or Pitcher, height 10½ inches, capacity 4 pints; six Tumblers, height 4 inches and one footed 14-inch rich Mirror Plateaux, burnished, silver plated border.
No. 4585 Complete Set as illustrated..... $62.50

JUG
4 pint, height 10½ inches
No. 4587 Each..... $30.00

FINE GENUINE RICH AMERICAN CUT GLASS

NOTICE: Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns shown on the preceding pages as a suggestion in anticipation of your wants.

In the qualities of colors and in the delicacy of carving upon which the decorative value of glass depends, our glass shows distinctive beauty unsurpassed.

WATER SET

Set consists of one Water Jug or Pitcher height 10½ inches, capacity 4 pints, six Tumblers, height 4 inches, and one ball footed 14-inch rich Mirror Plateaux, burnished, silver plated border.

No 4588 Complete Set, as illustrated..... $42.50

ADONIS TUMBLERS

Height 4 inches

No. 4589

Per doz., $45.00

ADONIS JUG

4 pint, height 10½ inches

No. 4590 Each..... $25.00

Cut Glass is highly appropriate as bridal or anniversary gifts.

WATER SET

Set consists of one Water Jug or Pitcher, height 10½ inches, capacity 4 pints, six Tumblers, height 4 inches, and one 14-inch rich Mirror Plateaux, embossed floral feet, burnished, silver plated border.

No 4591 Complete Set as illustrated .. $38.75

TUMBLERS

Height 4 inches

No. 4592

Per doz, $40.00

JUG

4 pint, height 10½ inches

No. 4593 Each . $25.00

FINE GENUINE RICH AMERICAN CUT GLASS

NOTICE: Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns shown on preceding pages as a suggestion in anticipation of your wants.

JUG
No. 4594 3 pint, 8½ inches, each $11 25
No. 4595 4 pint, 10 inches, each.. 15 00

JUG
4 pint, height 10½ inches
No. 4596 Each . . . $13 75

CARAFE
2 pint, height 7¾ inches.
No. 4597 Each $10 50

TUMBLERS
Height 4 inches
No. 4598 Doz. $12 50
Matches Jug Nos 4604 and 4605.

TUMBLERS
Height 4 inches
No. 4599 Doz. $20 00
Matches Jug No. 4603

TUMBLERS
Height 4 inches
No. 4600 Doz. $20 00
Matches Jug No. 4596

TUMBLERS
Height 4 inches
No. 4601 Doz. $30 00
Matches Jug Nos. 4594 and 4595.

CARAFE
2 pint, height 7¾ inches
No. 4602 Each $15.00

JUG
4 pint, height 10½ inches
No. 4603 Each. $16.25

JUG
No. 4604 3 pint, height 8 inches, each. . . . $13 75
No. 4605 4 pint, height 10½ inches, each. . . 17.50

CARAFE
2 pint, height 7¾ inches.
No. 4606 Each. $15.00

FINE GENUINE RICH AMERICAN CUT GLASS

NOTICE : Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns shown on the preceding pages as a suggestion in anticipation of your wants.

SUGAR—Height 2½ inches

CREAM—Height 3 inches

No 4607 Sugar and Cream Set as illustrated per set..... $5.75

SUGAR—Height 3 inches

SUGAR—Height 3 inches

CREAM—Height 3 inches

No 4608 Sugar and Cream Set as illustrated, per set..... $6.75

CREAM—Height 3 inches

No 4613 Sugar and Cream Set as illustrated, per set..... $10.75

SUGAR—Height 3 inches

CREAM—Height 3 inches

No 4609 Sugar and Cream Set as illustrated per set..... $7.50

SUGAR—Height 3 inches

SUGAR—Height 3 inches

CREAM—Height 3 inches

No 4610 Sugar and Cream Set as illustrated, per set..... $8.25

CREAM—Height 3 inches

No. 4614 Sugar and Cream Set, as illustrated, per set..... $9.25

SUGAR—Height 3 inches

CREAM—Height 3 inches

No. 4611 Sugar and Cream Set as illustrated per set..... $8.25

ADONIS SUGAR—Height 3 inches

RICH BLACKBERRY DESIGN SUGAR AND CREAM SET

SUGAR—Height 4 inches

CREAM—Height 4 inches

No 4612 Sugar and Cream Set as illustrated, per set..... $25.00

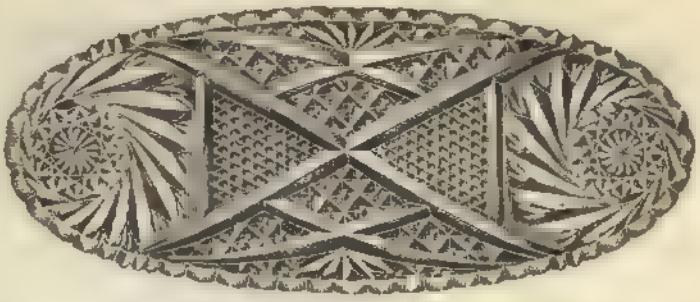
ADONIS CREAM—Height 3 inches

No 4615 Sugar and Cream Set as illustrated, per set..... $13.75

FINE GENUINE RICH AMERICAN CUT GLASS

NOTICE: Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns shown on the preceding pages as a suggestion in anticipation of your wants.

CELERY TRAY
No. 4616 Length 11½ inches, width 4½ inches, each . . $6 25

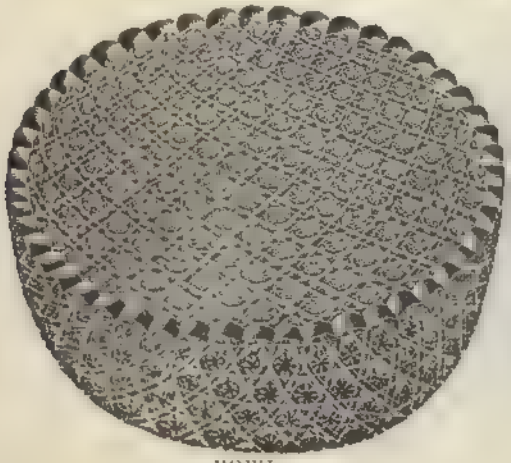


CELERY TRAY
No. 4617 Length 11 inches, width 4½ inches, each . . $6 25

BOWL
No. 4618 8 inch, each $7 50

BOWLS
No. 4619 8 inch, each $10 00
No. 4621 9 inch, each 17 50

ORANGE BOWL
No. 4621 10 inch, each $15 00



BOWL
No. 4622 8 inch, each $12 50

BOWL
No. 4623 8 inch each $12 50

BOWL AND PLATE SET
Width of Plate 7 inches
Diameter of Bowl, 5 inches
No. 4624 Per set $13 25

BOWLS
No. 4625 8 inch, each $13 75
No. 4626 9 inch, each 21 25

BOWL
No. 4627 8 inch, each $15 00

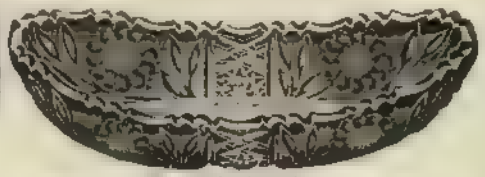
BOWL AND PLATE SET
Width of Plate 7 inches
Diameter of Bowl 5 inches
No. 4628 Per set $13 50

FINE GENUINE RICH AMERICAN CUT GLASS

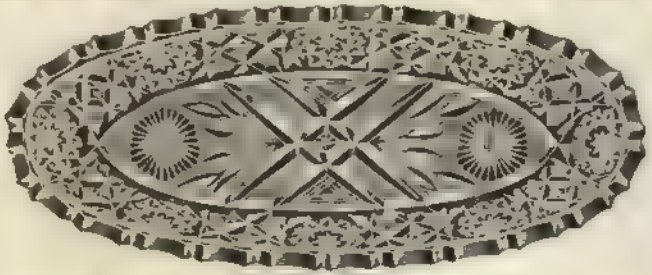
NOTICE: Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns shown on preceding pages as a suggestion in anticipation of your wants.

SMALL TRAY
Length 8 inches, width 5 inches. Suitable for Pickles, Olives, Bon Bons or Spoons
No. 4629 Each $3.35

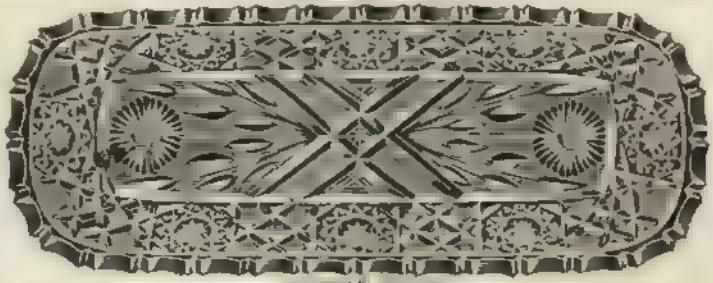
SMALL TRAY
Length 8 inches, width 4½ inches. Suitable for Pickles, Olives, Bon Bons or Spoons
No. 4630 Each $3.75



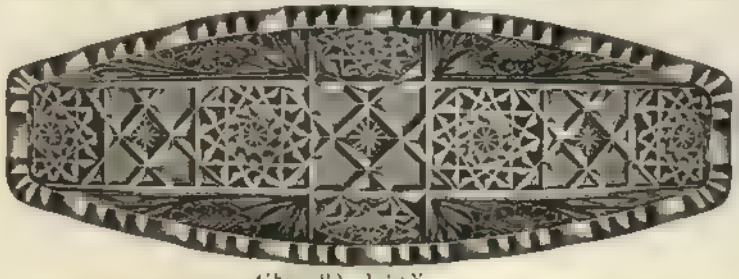
SMALL TRAY
Length 8¼ inches, width 3¾ inches. Suitable for Pickles, Olives, Bon Bons or Spoons
No. 4631 Each $3.70



CELERY TRAY
No. 4632 Length 11 inches, width 4½ inches each $7.50

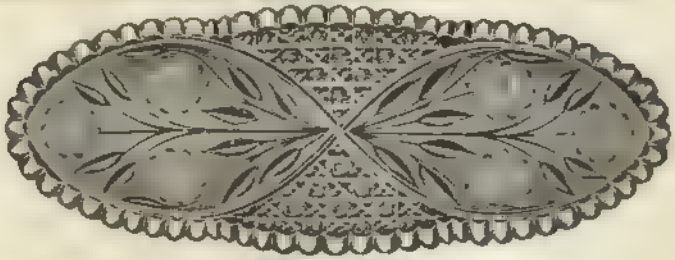


CELERY TRAY
No. 4633 Length 12 inches, width 4½ inches each $10.00



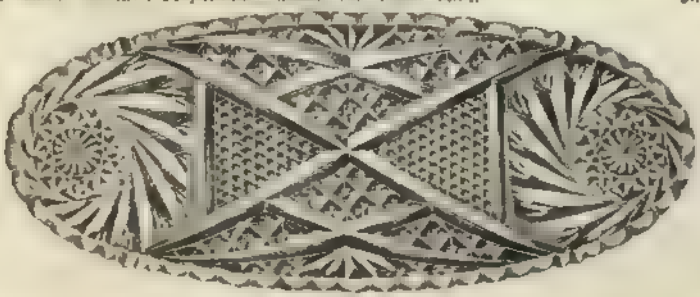
CELERY TRAY
No. 4634 Length 12 inches, width 4½ inches each $9.25

ADONIS CELERY TRAY
No. 4635 Length 11¾ inches, width 4½ inches, each $12.50

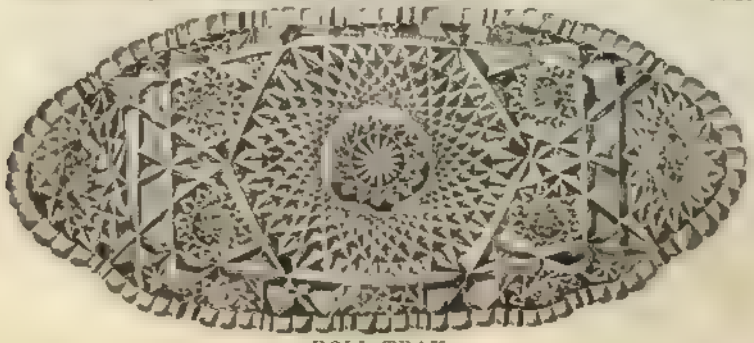


CELERY TRAY
No. 4636 Length 11½ inches, width 4½ inches each $9.25

BOWL
No. 4636 9 inch, each $13.75



CELERY TRAY
No. 4637 Length 11 inches, width 4½ inches each $9.25

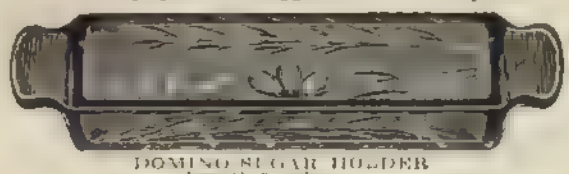


ROLL TRAY
No. 4639 Length 13 inches, width 5½ inches each $13.50

BOWL
No. 464 9 inch, each $14.25

FINE GENUINE RICH AMERICAN CUT GLASS

NOTICE: Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns shown on preceding pages as a suggestion in anticipation of your wants.

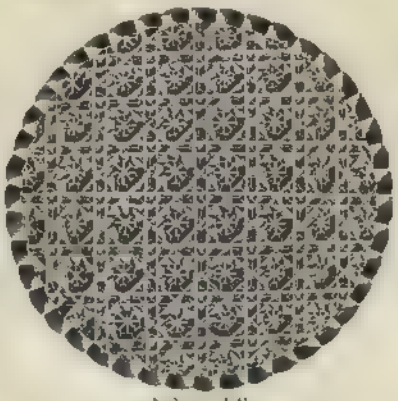


DOMINO SUGAR HOLDER
Length 9 inches
No 4641 Each $3 55

FINGER BOWL
Diameter 5 inches
No 4642 Each...$5 65

DOMINO SUGAR HOLDER
No 4643 Length 9 inches, each..... $5 00

NAPPIES
No. 4650 6 inch round, each $4 65
No 4651 6 inch handled, each 4 80
No. 4652 8 inch round, each 8 75



NAPPIES
No 4646 6 inch round, each $4 40
No 4647 6 inch handled, each 4 60

NAPPIES
No 4648 6 inch round, each... $4 60
No 4649 6 inch handled, each .. 4 80

SMALL TRAY
Length 7 inches, width 5¼ inches Suitable for Pickles, Olives, Bon Bon or Spoons
No. 4654 Each $3 00

PLATE
No 4653 7 inch, each $3 75

NAPPIES
No 4644 6 inch round, each $3 55
No 4645 6 inch handled, each 4 00

TWO-HANDLED BON BON
Width 6½ inches
No 4655 Each $3 75

ADONIS PLATE
No 4656 10 inch each ... $13 75

PLATE
No. 4657 10 inch each..... $12 50

SMALL TRAY
Length 8 inches, width 4 inches Suitable for Pickles, Olives, Bon Bons or Spoons
No 4658 Each... $5 00

FINE GENUINE RICH AMERICAN CUT GLASS

NOTICE : Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns shown on preceding pages as a suggestion in anticipation of your wants.

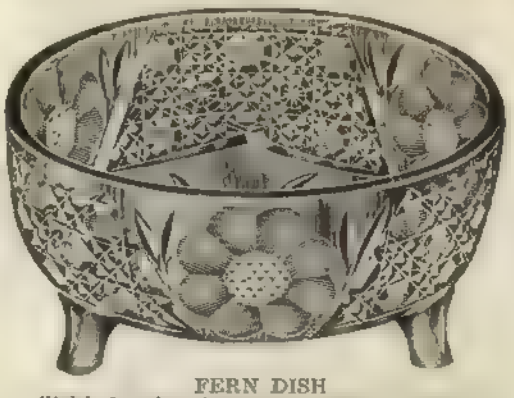
ICE TUB
6 inches diameter
Height 5½ inches
No 4659 Each..... $17 50

Cordial	Wine	Sherry	Claret	Champagne	Goblet
No. 4660	No 4661	No 4662	No 4663	No 4664	No 4665

No 4660	Cordial Glasses, height 3¾ inches, per doz	$47 50
No 4661	Wine Glasses, height 4¼ inches, per doz	52 50
No 4662	Sherry Glasses, height 4½ inches, per doz	52 50
No. 4663	Claret Glasses, height 4½ inches, per doz	57 50
No. 4664	Champagne Glasses, height 4¾ inches, per doz	67 50
No 4665	Goblet Glasses, height 6¼ inches, per doz	72 50

TABLE BELL
Height 4¼ inches
No 4666 Each $6 25

FOOTED FLOWER DISH
No. 4667 Diameter 9½ inch, each..... $13 75
No. 4668 Diameter 11½ inch, each ..8 75



FERN DISH
Width 8 inches, height 4¼ inches Removable burnished metal lining
No 4669 Each $17 50

FOOTED PUNCH BOWL
No. 4670 Diamater 9 inches, height 9 inches, each..... $25 00
No. 4671 Diameter 10 inches, height 10 inches, each..... 37.50
Above can be used as separate Bowl or Comport

PUNCH CUPS, To Match
(Not illustrated)
No. 4672 Height 3¼ inches, each .. $75.00

PUNCH CUP
Height 4 inches
No. 4673
Per doz., $82 50

FOOTED FLOWER BOWL
No. 4674 6 inch, each....$8.75

FOOTED PUNCH BOWL
No. 4675 Diameter 12 in., height 12 in., each. $137 50
No. 4676 Diameter 14 in., height 14 in., each 180 00
No. 4677 Punch Cup to match, height 4 inches, per doz. 82 50

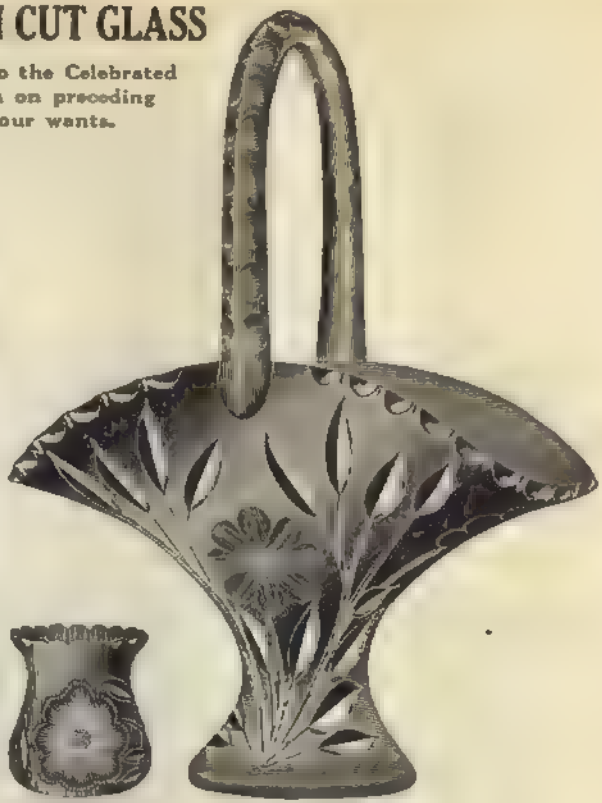
FINE GENUINE RICH AMERICAN CUT GLASS

NOTICE: Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns shown on preceding pages as a suggestion in anticipation of your wants.

ICE LIP OIL
Height 9 inches to top of stopper
No. 4678 Each $11.25

OIL
Height 7¼ inches to top of stopper
No. 4679 Each $7.00

OIL
Height 7½ inches to top of stopper
No. 4681 Each $7.00



BLACKBERRY COMPORT
Height 8 inches, width of bowl 6 inches.
No. 4685 Each.....$16.25

ADONIS COMPORT
Height 8 inches, Bowl 6 inches.
No. 4686 Each.....$12.50

TOOTHPICK
Height 2½ inches
No. 4681
Each, $4.20

BASKET

No. 4682	8 inch	each	$15.00
No. 4683	10 inch	each	22.50
No. 4684	12 inch	each	32.50

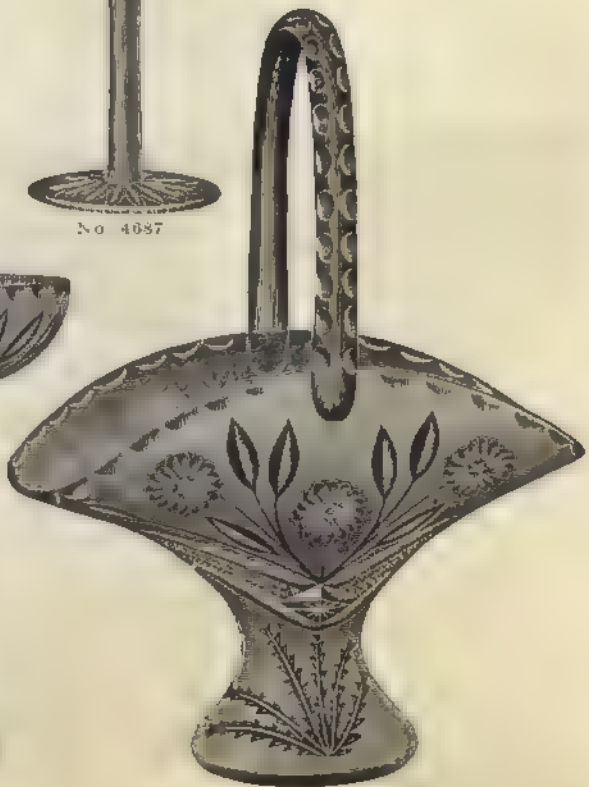
COMPORT
Height 6 inches, Bowl 4½ inches
No. 4687 Each.. $4.50

No. 4687

ADONIS COMPORT
Height 8 inches, bowl 6 inches.
No. 4688 Each.....$12.50

COMPORT
Height 5 inches, Bowl 4 inches.
No. 4689 Each...$5.00

COMPORT
Height 8 inches, Bowl 6 inches.
No. 4690 Each...$7.50



ADONIS BASKET

No. 4691	8 inch, each	$22.50
No. 4692	10 inch, each	30.00
No. 4693	12 inch, each	45.00

FINE GENUINE RICH AMERICAN CUT GLASS

NOTICE: Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns as shown on preceding pages as a suggestion in anticipating of your wants.

BUD VASE
No. 4694 6 in., each $3.75
No. 4695 8 in., each 5.00

BUD VASE
No. 4696 6 in., each $5.00

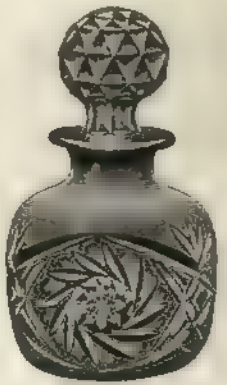
BUD VASE
No. 4697 6 in., each $5.00

POWDER CASE
With cut lining in interior
No. 4698 6 in., each $16.25
No. 4699 7 in., each 22.50
No. 4700 8 in., each 27.50

BUD VASE
No. 4701 6 in., each $4.20
No. 4702 8 in., each 5.65

BUD VASE
No. 4703 8 in., each $6.25

BUD VASE
No. 4704 8 in., each $6.25



CORDIAL
No. 4705 4 oz., each $ 7.50
No. 4706 6 oz., each 10.00
No. 4707 8 oz., each 11.25
No. 4708 12 oz., each 12.50

PUFF BOX
No. 4709 3 in., each $5.00

HAIR RECEIVER
No. 4710 3 in., each $5.00

VASE
No. 4711 12 inch, each.. $10.00

VASE
No. 4712 12 inch, each $27.50

BLACKBERRY VASE
No. 4713 12 inch, each... $37.50

ADONIS VASE
No. 4714 12 inch, each... $40.00

FINE GENUINE RICH AMERICAN CUT GLASS

NOTICE: Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns as shown on the preceding pages as a suggestion in anticipation of your wants.

No.	VASE	
4715	10 in., each	$ 8 25
4716	12 in., each	10 25
4717	14 in., each	2[illegible] 25

No.	VASE	
4718	10 in., each	$11 25
4719	12 in., each	15 00
4720	14 in., each	20 00
4721	16 in., each	31 00
4722	18 in., each	45 00

No.	VASE	
4723	10 in., each	$10 00
4724	12 in., each	15 00
4725	14 in., each	21 25
4726	16 in., each	30 00
4727	18 in., each	50 10

No.	VASE	
4728	10 in., each	$16 25
4729	12 in., each	22 75
4730	14 in., each	32 50
4731	16 in., each	45 00
4732	18 in., each	70 00

No.	VASE	
4733	12 in., each	$10 00
4734	14 in., each	15 00
4735	16 in., each	22 50

HIGH GRADE PRODUCT

REMARKABLE VALUES

Very Appropriate as Bridal or Anniversary Gifts

VASE

No. 4736	12 inch, each	$10.00
No. 4737	14 inch, each	15.00
No. 4738	16 inch, each	20.00

VASE

No. 4739	10 inch, each	$11 25
No. 4740	12 inch, each	15 00
No. 4741	14 inch, each	21 25
No. 4742	16 inch, each	30 00
No. 4743	18 inch, each	45 00

VASE

No. 4744	10 inch, each	$13 75
No. 4745	12 inch, each	18 75
No. 4746	14 inch, each	25 00
No. 4747	16 inch, each	35 00
No. 4748	18 inch, each	50 00

ADONIS VASE

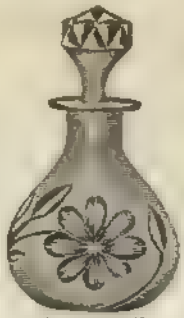
No. 4749	10 inch, each	$16 25
No. 4750	12 inch, each	22 50
No. 4751	14 inch, each	32 50
No. 4752	16 inch, each	45 00
No. 4753	18 inch, each	67 50

FINE GENUINE RICH AMERICAN CUT GLASS

NOTICE: Your special attention is directed to the Celebrated Regal and Sterling Cut Glass Patterns shown on preceding pages as a suggestion in anticipation of your wants.

PUFF BOX
No. 4754.....$5 00

SALVE BOX
No 4755 . $5.00



COLOGNE
No 4756 $7 50

SEPARATE PIECES OF B AT SET AT THE FOLLOWING PRICES

No 4753	Tray, oblong 9 wide each	$15 00
No 4754	Puff Box, 3 in diameter each	5 00
No 4755	Salve Box, 2½ in diameter each	5 00
No 4756	Cologne Bottle cap ctg 2 oz each	7 50
No 4757	Pin Tray, 4½ in long, 3½ wide each	3 35
No 4758	Hair Receiver, 3½ in diameter each	5 00

COMPLETE SIX PIECE BUREAU SET AS ILLUSTRATED

No 4760 Per set of six pieces $40 00

PIN TRAY
No. 4757 . . . . . $3 3

HAIR RECEIVER
No 4758 $5 00

ADONIS PUFF BOX
5½ inches
No 4761 Each $13 75

ADONIS HAIR RECEIVER
5½ inches
No. 4762 Each $12 75

ADONIS GLOVE BOX
White silk lining in interior Length 9 inches width 4½ inches
No 4763 Each $25 00

HANDKERCHIEF BOX
White silk lining in interior 6½ inches square
No. 4764 Each.....$35.00

JEWEL CASE
White silk lining in interior

No 4765	6 inch each	$12 50
No. 4766	7 inch, each	17 50
No. 4767	8 inch, each	22 50

COLOGNE

No. 4768	4 oz, each	$8 25
No 4769	6 oz, each	10.00
No. 4770	8 oz, each	11.75
No. 4771	12 oz., each	13.75

ADONIS COLOGNE DROP STOPPER

No 4772	4 oz., each	$10 00
No 4773	8 oz., each	12 50

GLOVE BOX
White silk lining in interior Length 10½ inches width 4½ inches
No. 4774 Each $35 00

PUFF BOX

No 4775	3 inch each	$5 00
No 4776	4 inch, each	6 75
No. 4777	5 inch, each	8 75

HAIR RECEIVER

No 4778	3 inch each	$5 00
No 4779	4 inch each	6 75
No 4780	5 inch, each	8.75

STOCK SADDLES

★NORLEIGH DIAMOND

★SECURITY BULGE

"ORIGINATED BY US"

The advantage of the Security Bulge Saddle over all other Saddles, lies in the Shape and Build of the Fork. The Swell of the Fork extends outward over the Base of it and I curves inward forman, a Natural Hook for the Thigh to rest against when Horse bucks or pitches. This gives the Rider a grip which the most violent shaking cannot dislodge. The Fork also swells backward, which prevents Rider from striking Horn or base of Horn, and averts any injury from that cause. These Saddles are made by Skilled Workmen of the Best Materials and are guaranteed to be the best in all respects that can be produced for the price.

★NEW TEXAS

Cut shows Rear View of Security Bulge.

★EL PASO

A first class, handsome Saddle with an Indestructible Tree.

This saddle is built on the **Indestructible Hays Endless Steel Wire Cable Rigged Tree**, plain Horn and Plain Bound Cantle and Front. All appointments are strictly first class. Best Oregon or California stock. Block and Star Hand Stamped Border.

Each

No. 832—Double Rig; Weight 38 lbs. **$154.00**

SPECIFICATIONS

Tree—15 inch, Beefhide, Cable Rigged, 15 inch Swell Fork.
Skirts—14 by 29 inches. Woolskin lined.
Fenders—9 by 18 inches.
Stirrup Leathers—3 inches.
Short Latigoes—2 inches.
Long Latigoes—1¾ inches.
Rigging Hays Endless Steel Wire Cable.
Girths—No. 1 combination Fish Cord and 3 Ply Belting Web, Leathered ends.
Stirrups—Brass Bound Visalia, with Leather Foot Rest.

This is a good, substantial Saddle with First Class Appointments. It has full Hand Stamped Border Zig-zag style. Bark Tanned, Fleece Lined Skirts, 3 inch Stirrup Leathers, good Tie Straps and Billets, Combination Cinchas with Leathered Ends; all stock of liberal dimensions and well selected. An easy, safe and durable Saddle.

Each

No. 71—Double Rig; Weight about 31 lbs. **$120 00**

SPECIFICATIONS

Tree—15 inch, Hide Covered; No. 4 Security Bulge.
Skirts—13½x27 inches; Wool Lined.
Fenders—9½x17½ inches.
Stirrup Leathers—3 inches.
Billets—1¾ inches.
Ties—1¾ inches.
Back Rigging—1¾ inches.
Front Rigging—2½ inches.
Girths—No. 2 Combination.
Stirrups—2 inch Best Ox Bow.
Fork—13½ inch Swell.

One in a Box

STOCK SADDLES
*NORLEIGH DIAMOND

*MISSOURI

An Extra Good and Strong Saddle. All Stock Generous Dimensions and well selected; Neatly Decorated; Wide Heavy Strapping.

Each

No. 68 Double Rig; Weight about 26 lbs **$98.00**

SPECIFICATIONS

Leather—Fine Quality California Steer Hide; Russet Color; Fancy Hand Stamped Decorations.
Tree—Cherokee Special; Extra Wide 13 inch Bulge; 15 inch Seat; Steel Fork; Beef Hide Covered.
Horn—Steel; Covered with Cap; Neck Wrapped with Horn String of White Lace Leather.
Skirts—26 inches Long, 13 inches Deep, Heavy Tanned Russet Leather; Heavy Felt Lined; Round Corners.
Cantle—Broad and Straight; Rawhide Bound.
Seat—Made Solid with Cantle and Jockeys all in One Piece.
Stirrup Leathers—3 inches Wide; Doubled at Points.
Fenders—15½ inches Long; 8 inches Wide; Fancy Hand Stamped Decorations
Long Latigoes—1¾ inches Wide.
Billets—1¾ inches wide.
Cinchas—Extra Fine Mexican Hair.
Stirrups—Heavy Ox Bow; Leather Foot Pieces.
Conchas—Brass
Rosettes—Leather

One in a Box

STOCK SADDLES
*NORLEIGH DIAMOND

*BRONCO BILL

This is the latest model of "Broncho Buster" saddle, in a light weight but strong pattern. The tree is very strong, has a very straight cantle. Seat is very high in front with a sharp slope to back, which is broad and flat, making with the wide bulge fork an extra secure and very comfortable seat. New design fan shaped, hand border decoration. Rawhide bound and rawhide braided horn. All materials used in this saddle are of the best.

For a classy, up-to-date, strong, comfortable saddle this one is the "Best Ever"

Each

No. 943—Double Rig; Weight 32 lbs..... **$120 00**

SPECIFICATIONS

Tree—14½ inch, hide covered, Bronco Bill, 15½ inch Swell Fork.
Skirts—13½ by 27 inches, Round Corner, Woolskin Lined.
Stirrup Leathers—3 inches.
Fenders—9½ by 17½ inches.
Short Latigoes—1¾ inches.
Long Latigoes—1¾ inches
Rigging—1¾ inch back, 2½ inch Front.
Cinchas—18 strand, California Angora Hair.
Stirrups—2 inch, best Ox Bow.
Fork—15½ inch Swell.
Weight—32 lbs.

One in a Box

STOCK SADDLES
*NORLEIGH DIAMOND

*SUNSET BULGE

This is a Handsome Saddle with Wide Swell Fork Tree of the Latest Style and Shape. Well Proportioned and Very Strong

Each

No. 69—Double Rig; Weight about 25 lbs **$80.00**

SPECIFICATIONS

Leather—Best Selected California, Russet Color; Basket Stamp Decoration.
Tree—San Quentin; Extra Wide 12 inch Swell Bulge Bucking Roll, 15 inch Seat; Steel Fork; Beef Hide Covered.
Horn—Steel; Covered with Cap; Neck Wrapped with Horn String of Yellow Lace Leather.
Skirts—26 inches Long, 12 inches Deep; Heavy Tanned Russet Leather Felt Lined.
Cantle—Broad and Straight; Plain Leather Bound.
Seat—Made Solid with Cantle and Jockey all in One Piece.
Double Rig—Front Rig 2½ inches Wide; Back Rig 1¾ inches, in One Piece around Back.
Stirrup Leathers—3 inches Wide; Fancy.
Fenders—9 inches Wide; 16 inches Long; Basket Stamp Decorations.
Long Latigoes—1½ inches Wide.
Short Latigoes—1⅝ inches Wide.
Cinchas—18 Strand Texas, Cotton String with Black Japanned Steel Buckles.
Stirrups—2 inch Heavy Wood Ox Bow; Plain, not Covered.
Tie Strings—Oiled Yellow Lace Leather.
Rings—Steel, Leather Covered.
Rosettes—Leather.

One in a Box

STOCK SADDLES
*NORLEIGH DIAMOND

*ROCKY MOUNTAIN

This is a Good Medium Priced Stock Saddle with Wide, Swell Fork. It has Good Stock, Wide Stirrup Leathers and Cinch Rigging. Hood Front, Steel Fork Tree. Liberal Dimensions. Good Value.

Each

No. 73—Double Rig; Weight about 23 lbs. **$70.00**

SPECIFICATIONS

Tree—15-inch Steel Fork with 11½-inch Swell Fork.
Skirts—24 inches by 12 inches, Felt Lined.
Seat—And Jockeys in One Piece, Bound Cantle.
Stirrup Leathers—2½ inches.
Billets—1½ inches.
Ties—1½ inches
Back Rigging—1½ inches.
Front Rigging—2½ inches.
Girths—18 Strand Cotton Texas String
Stirrups—2-inch Ox Bow.

NOTE—Above Saddle can be furnished with Single Rig at Same Price.

One in a Box

STOCK SADDLES
*NORLEIGH DIAMOND

*EHBO

A Strong and Durable Saddle which will please the Rider who is Looking for a Saddle Made for Hard Service. Latest Style Swell Fork Tree.

	Each
No. 907—Double Rig; Weight about 24 lbs.	**$60 00**

SPECIFICATIONS

Leather—Selected California Russet, Nicely Stamped.
Tree—15 inch Steel Fork.
Skirts—12½ inches by 25 inches, Felt Lined.
Stirrup Leathers—2½ inches.
Billets—1¾ inches.
Ties—1½ inches.
Back Rigging—1½ inches.
Front Rigging—2¼ inches.
Girths—18 Strand Cotton Texas String.
Stirrups—2 inch Ox Bow.

One in a Box.

STOCK SADDLES
*NORLEIGH DIAMOND

*WELLINGTON

This is an Up-to-date Swell Fork Saddle. It is well Made, Deep Seat, High Cantle, Heavy Strapping.

	Each
No. 16½—Double Rig; Weight about 20 lbs..	**$57 00**

SPECIFICATIONS

Leather—Fine California Russet Stock.
Tree—15 inch Kansas Iron Fork.
Skirts—11½ inches by 22 inches, Felt Lined.
Stirrup Leathers—2½ inch Double Ends.
Billets—1½ inches.
Ties—1¾ inches.
Back Rigging—1¾ inches.
Front Rigging—2 inches.
Girths—16 Strand Cotton Texas String.
Stirrups—2 inch Ox Bow.
Fork—11 inch Swell.

One in a Box.

STOCK SADDLES
*NORLEIGH DIAMOND

*OAKLAND

	Each
No. 906—Double Rig; Weight about 22 lbs.	$46 00

SPECIFICATIONS

Leather—Selected California Stock, Nicely Stamped; Russet Color.
Tree—15 inch Seat; Iron Neck.
Horn—Steel, Leather Covered.
Skirts—24 inches Long, 12 inches Deep, Felt Lined.
Fenders—7 inches Wide, 15 inches Long.
Stirrup Leathers—2 inches.
Billets—1½ inches.
Ties—1¾ inches.
Back Rigging—1½ inches.
Front Rigging—2¼ inches.
Girths—16 Strand Texas Cotton String.
Stirrups—2 inch Ox Bow.
Bulge—11½ inches.

One in a Box

STOCK SADDLES
*NORLEIGH DIAMOND

*RED HAWK

	Each
No. 106—Double Rig; Weight about 16 lbs.	$45 00

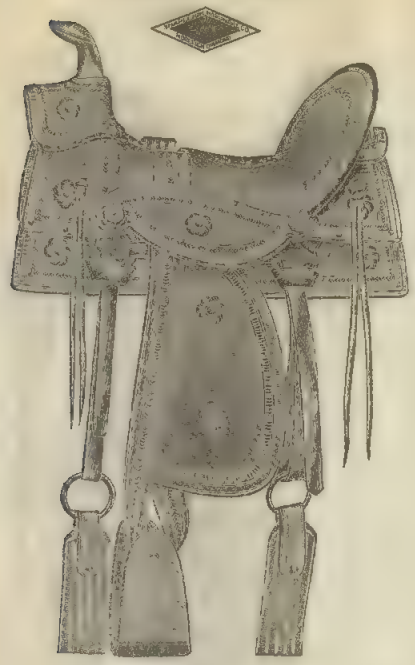
SPECIFICATIONS

Leather—Heavy Saddle Stock, Russet Color.
Tree—14½ inch Steel Fork, 10 inch Swell.
Horn—Steel Leather Covered.
Skirts—11 by 20½ inches, Felt Lined.
Fenders—7½ inches wide; 14 inches long.
Stirrup Leathers—1¾ inches.
Latigoes—1 inch.
Ties—1 inch.
Cinchas—16 strand Texas Cotton String.
Back Rigging—1½ inch.
Front Rigging 1¼ inches.
Girths—16 Strands Texas Cotton String.
Stirrups—4 inch Solid Bent.
Bulge—1½ inches.

One in a Box

STOCK SADDLES

*NORLEIGH DIAMOND



*MUSTANG

Each

No. 19—Double Rig; Weight about 14 lbs..... $36 00

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Hand Stamped Decorations and Border.
Tree—Bevel, 14 inch Seat; Steel Fork.
Horn—Steel; Covered, with Leather Cap.
Skirts—20 inches Long, 11 inches Deep; Russet Tanned Leather; Felt Lined; Hand Stamped Decorations and Border.
Cantle—Straight and Full; Leather Bound.
Seat—Texas Half Style; Broad and Well Shaped; Independent Jockeys, Tacked to Tree.
Double Rig—Solid Strap; Front 1½ inches Wide; Back 1½ inches Wide; Back Rigging Running Over Saddle Back of Cantle in One Piece.
Stirrup Leathers—1¾ inches Wide; Hand Stamped Border.
Fenders—7 inches Wide; 13 inches Long, Hand Stamped Decorations and Border.
Long Latigoes—1 inch Wide.
Short Latigoes—1 inch Wide.
Girth—Corded Web with Leather Loops and 2½ inch Japanned Steel Rings.
Stirrups—4 in. Solid Bent Wood; Plain, not Covered
Tie Strings—Oiled Lace Leather.
Rings—Steel, Russet Enameled.
Rosettes—Leather.

STOCK SADDLES

*NORLEIGH DIAMOND

*LAS VEGAS

Each

No. 17—Double Rig; Weight about 15 lbs..... $42 00

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Plain Creased Borders.
Tree—Vegas; 14½ inch Seat; Steel Fork.
Horn—Steel; Leather Covered.
Skirts—20½ inches Long, 10½ inches Deep; Russet Tanned Leather; Felt Lined; Plain Hand Creased Border.
Cantle—Straight and Full; Leather Bound.
Seat—Solid; Broad and Well Shaped; Jockey, Cantle and Seat in One Piece.
Double Rig—Front 1 inch Wide; Doubled; Back 1½ inches Wide, Running over Saddle Back of Cantle.
Stirrup Leathers—1¾ inches Wide; Plain Hand Creased Border.
Fenders—7½ inches Wide; 13½ inches Long; Star Center Piece and Plain Creased Hand Creased Border.
Long Latigoes—1½ inches Wide.
Short Latigoes—1½ inches Wide.
Cinchas—16 Strand White Cotton Texas String; Japanned Steel Buckles.
Stirrups—4 inch Solid Bent Wood, Plain, not Covered.
Tie Strings—Lace Leather.
Rings—Steel Russet Enameled.
Rosettes—Leather.

One in a Box

ARMY AND STOCK SADDLES

*NORLEIGH DIAMOND

*TRIUMPH

Each

No. 131—Double Rig; Weight about 13 lbs..... $29.00

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock, Russet Color; Hand Stamped Decorations and Border.

Tree—Jefferson; 13½ inch Seat, Steel Fork; Felt Covered.

Horn—Steel; Covered with Leather Cap.

Skirts—19 inches Long, 11 inches Deep; Russet Tanned Leather; Unlined, Hand Stamped Decorations and Border.

Cantle—Straight and Full; Leather Bound.

Seat—Solid; Broad. Well Shaped and Comfortable; No Jockeys.

Double Rig—Front Rig attached to Forepiece; Back 1¼ inches Wide; Back Rigging Running over Saddle Back of Cantle in One Piece.

Stirrup Leathers—1¼ inch Wide; Plain Strap Looped to Rigging.

Fenders—7 inches Wide; 13 inches Long; Hand Stamped Decorations and Border.

Long Latigoes—1 inch Wide.

Short Latigoes—1 inch Wide.

Girth—Cotton Web No. 4, with Leather Loops and Japanned Steel Rings.

Stirrups—4 inch Solid Bent Wood; Plain, not Covered.

Tie Strings—Oiled Lace Leather.

Rings—Steel, Russet Enameled.

Studs—XC Plated Tin.

ARMY AND STOCK SADDLES

*NORLEIGH DIAMOND

GENUINE McCLELLAN

Each

No. 436—Single Rig; Weight about 15 lbs..... $50.00

SPECIFICATIONS

Leather—Best Selected California; Russet Color.

Tree—No. 1 McClellan; 15 inch Seat.

Skirts—18½ inches Deep from Center of Seat; 13 inches Long; Russet Tanned Leather; Stamped Border.

Cantle—Broad and Sloping, with three Coat traps and one Coat Strap on Horn.

Seat—Open Center; Sewed all Around.

Single Rig—1¼ inches Front and Back; Solid Straps Running over Front and Back of Saddle.

Stirrup Leathers—1¼ inches Wide.

Girth—Corded Web; Combination Buckle and Tie.

Long Latigoes—1¼ inches Wide.

Billets—1¼ inches Wide.

Stirrups—3 inch Covered Wood.

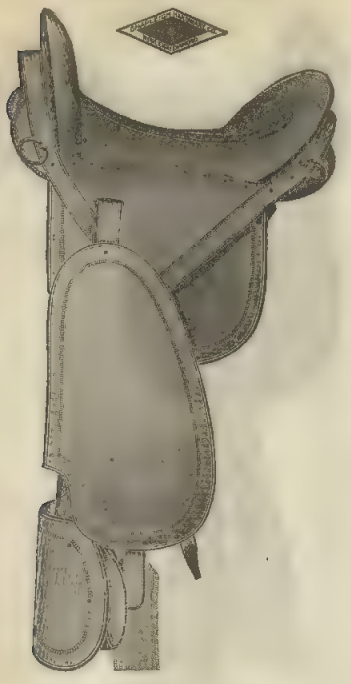
Bars—Leather Covered.

Rings—Steel, XC Plate Tinned.

One in a Box

SADDLES

*NORLEIGH DIAMOND



McCLELLAN

Each

No. 32—Single Rig; Weight about 10 lbs..... $28.00

SPECIFICATIONS

Leather—Heavy Selected Harness Stock; Black Color.
Tree—McClellan; 14 inch Seat; Hide Covered; Front and Back Arches.
Skirts—14 inches Deep from Center of Seat; 11½ inches Long; Black Tanned Leather; Stamped Border; Fastened with Screws.
Cantle—Broad and Sloping.
Seat—Open Center; Sewed all Around.
Single Rig—1½ inches Front and Back; Front and Back Rigging Straps go Around Tree in One Piece Each.
Stirrup Leathers—1¼ inches Wide.
Girth—Corded Web; with Leather Loops and Japanned Steel Rings.
Long Latigoes—1½ inches Wide.
Short Latigoes—1½ inches Wide.
Fenders—8½ inches Wide, 15½ inches Long; Hand Stamped Border.
Stirrups—2½ inch Covered Wood.
Bars—Rawhide Covered.
Rings—Steel, Black Japanned.

SADDLES

*NORLEIGH DIAMOND

FERGUSON LEADER

Each

No. 28—Single Rig; Weight about 13 lbs..... $33.00

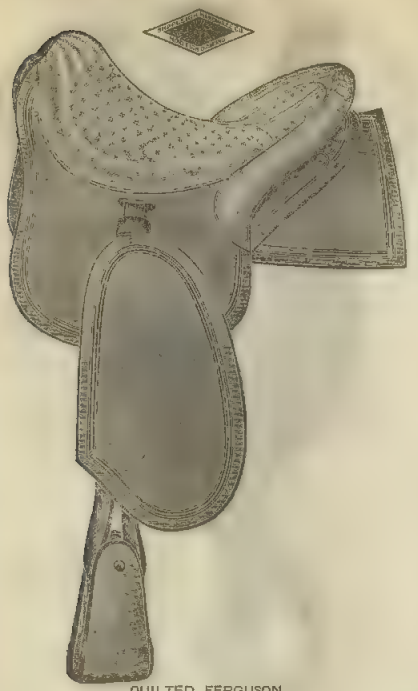
SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color.
Tree—Ferguson; 13½ inch Seat; Leather Covered.
Skirts—11½ inches Deep from Center of Seat; 20 inches Long; Russet Tanned Leather; Stamped Border.
Cantle—Roll; Broad, Full and Sloping.
Seat—Solid; Broad, Smooth and Comfortable
Single Rig—Front Rigging with Mounting Handle made Solid and Studded to Tree; Back Rigging Running over Saddle Back of Cantle in Two Pieces.
Stirrup Leathers—1¼ inches Wide.
Girth—Corded Web; with Leather Loops and Japanned Steel Rings.
Fenders—8 inches Wide; 15¾ inches Long; Hand Stamped Border and Decoration.
Long Latigoes—1 inch Wide.
Short Latigoes—1 inch Wide.
Stirrups—4 inch Solid Bent Wood.
Bars—Full Leather Lined.
Housing—Creased Edge; Nickel Plated Studs and ¾ inch Japanned Steel Ring
Rings—Steel, Black Japanned.

One in a Box

RIDING SADDLES

*NORLEIGH DIAMOND



QUILTED FERGUSON

Each

No. 0214 –Single Rig; Weight about 14 lbs. **$40.00**

SPECIFICATIONS

Leather—Heavy Selected Russet Skirts and Fenders; Light Tan Color Calf Skin Seat.

Tree—Ferguson; 14 inch Seat.

Skirts—11 inches Deep from Center of Seat; 20 inches Long; Russet Tanned Leather; Hand Stamped Border; Full Leather Underskirt Pad.

Cantle—Roll; Broad and Full; Padded and Quilted.

Seat—Solid; Soft Light Tan Calf Skin; Hand Quilted and Stuffed.

Single Rig—To Tie; 1½ inch Solid Leather Straps, Back Rig in Two Pieces Running over Saddle Back of Cantle; Fork Ring in One Piece Running over Fork.

Stirrup Leathers—1½ inches Wide.

Girth—Corded Web; with Leather Loops and Japanned Steel Rings

Fenders—9¼ inches Wide; 16 inches Long; Creased Border.

Long Latigoes—1 inch Wide.

Short Latigoes—1 inch Wide.

Stirrups—4 inch Solid Bent Wood.

Bars—Full Leather Lined.

Housing—Creased Edge; Stamped Border; Nickel Plated Studs; ¾ inch Nickel Plated Coat Strap Rings; Housing and Underskirt in One Piece.

Rings—Steel, Black Japanned.

RIDING SADDLES

*NORLEIGH DIAMOND

ENGLISH SOMERSET

Each

50 **Single Rig;** Weight about 8 lbs **$23 00**

SPECIFICATIONS

Leather—Fine Grade Heavy Oak Tanned Russet Color Skirts and Jockeys, Hogskin Impression; Light Tan Color Calfskin Seat.

Tree—Somerset; 15 inch Seat

Skirts—18½ inches Deep from Center of Seat; 9 inches Wide; Oak Tanned Leather; Hogskin Impression.

Cantle—Broad and Full; Well Padded and Bound.

Seat—Solid; Well Padded and Quilted; Light Tan Color Calfskin

Pad—Heavy Duck Top, Cloth Bottom, Leather Facing.

Billets—1 inch Wide.

Stirrup Leathers—1 inch Wide.

Girth—2½ inch Corded Web with Leather Loop; 1 inch Buckle.

Stirrups—Malleable Iron; XC Plate (Tinned).

One in a Box

ENGLISH RIDING SADDLES

*NORLEIGH DIAMOND

*KHEDIVE

Each

No. 51—Single Rig; Skirts Stamped Throughout; 15½ inches Deep; 9 inches Wide; 1 inch Stirrup Leathers; Solid Skirting Leather Seat; Weight about 6 lbs. **$14.50**

SPECIFICATIONS

Leather—Good Grade Solid Oak Tanned Skirting Leather; Russet Color

Tree—Somerset; 15 inch Seat

Skirts—15½ inches Deep from Center of Seat; 9 inches Wide; Oak Tanned Leather.

Cantle—Broad and Full; Well Padded and Bound.

Seat—Solid; Broad and Smooth.

Pad—Plain Cloth; Well Stuffed.

Billets—1 inch Wide.

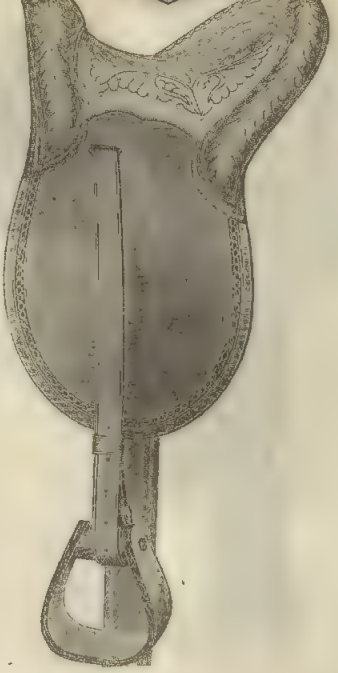
Girth 2½ inch Cotton Web with Leather Loop; 1 inch Buckle.

Stirrups—2½ inch Solid Bent Wood.

One in a Box

SPRING SEAT SADDLES

*NORLEIGH DIAMOND



*KENTUCKY

Each

No. 217—Single Rig; Weight about 14 lbs. **$42 00**

SPECIFICATIONS

Leather—Fine Quality Oak Tanned Russet Color Skirts; Light Tan Color Calfskin Seat.

Tree—Somerset; 15 inch Seat; Double Gullet Iron.

Skirts—22 inches Deep from Center of Seat; 12½ inches Wide; Russet Tanned Leather; Hand Stamped Border.

Cantle—Broad Roll; Padded and Quilted.

Seat—Solid; Soft Light Tan Calfskin; Extra Full Padded and Quilted.

Pad—Solid Leather; Well Stuffed

Billets—1¼ inches Wide.

Stirrup Leathers—1¼ inches Wide.

Girth—2⅝ inch Corded Web with Leather Loop; 1¾ inch Buckle.

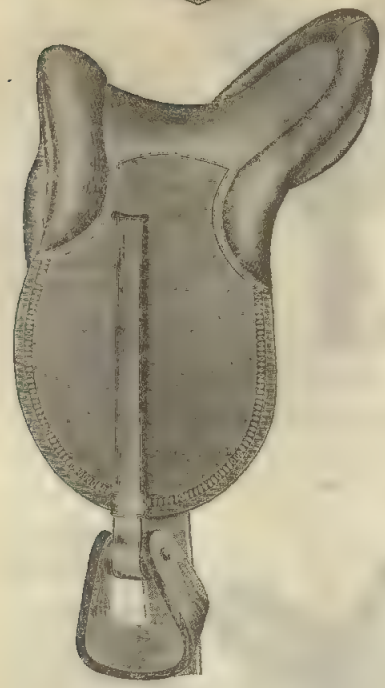
Stirrups—1 inch Solid Bent Wood

Rings—Two ⅞ inch Black Japanned Coat Strap Rings

One in a Box

SPRING SEAT SADDLES

*NORLEIGH DIAMOND



*COMMON SENSE

Each

No. 39—Single Rig; Weight about 16 lbs..... $42.00

SPECIFICATIONS

Leather—Well Selected Heavy Skirting Leather Throughout; Russet Color.

Tree—Somerset; 17 inch Seat, Double Cuffet Iron.

Skirts—22½ inches Deep from Center of Seat; 12¾ inches Wide; Russet Tanned Leather; Hand Stamped Border.

Cantle—Broad Roll; Smooth, Padded.

Seat—Plain Solid, No Seam in Center; Deep and Smooth. Very Comfortable.

Pad—Full Leather Top and Bottom.

Billets—1¼ inches Wide.

Stirrup Leathers—1¼ inches Wide.

Girth—2½ inch Corded Web; 1¼ inch Buckle.

Stirrups—4 inch Solid Bent Wood.

Bars—Leather Lined.

Rings—Two ⅜ inch, Black Japanned Coat Strap Rings.

One in a Box

LADIES ASTRIDE SADDLES

*NORLEIGH DIAMOND

*CANTER

Each

No. 256—Single Rig; Weight about 14 lbs..... $42.00

SPECIFICATIONS

Leather—Fine Quality Oak Tanned Russet Color Skirts; Light Tan Color Calfskin Seat.

Tree—15 inch; Covered Horn; Canby.

Skirts—12 by 21 inches.

Bars—Felt Lined.

Seat—Calfskin Quilted.

Stirrup Leathers—1¼ inches.

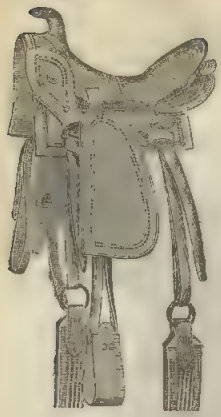
Billets—1¼ inches.

Girth—No. 4, Corded Web to Buckle.

Stirrups—2½ inch, Covered Wood.

BOYS AND GIRLS SADDLES

*NORLEIGH DIAMOND



Each

No. 25—Double Rig; Weight about 7 lbs..... **$20 00**

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Hand Stamped Border Decorations.

Tree—Western Style; 11 inch Seat, Wood Fork; Felt Covered.

Horn—Leather Covered with Cap.

Seat—Broad and Sloping; No Jockeys.

Skirts—9 inches Deep from Center of Seat; 12 inches Wide; with Hand Stamped Border and Creased Edges.

Fenders—5¾ inches Wide; 11 inches Long; with Hand Stamped Border and Creased Edges.

Tie Straps—⅞ inch Wide; Creased Edges.

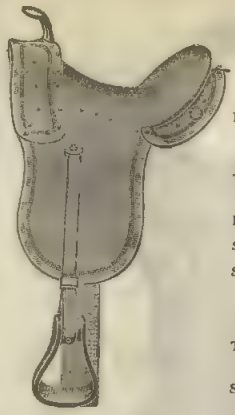
Stirrup Leathers—1 inch Wide; Creased Edges.

Girth—2¾ inch Corded Web with Leather Loops and Japanned Steel Ring.

Stirrups—2½ inch Boys; Plain Bent Wood.

Rings—¾ inch XC Plated (Tinned) Coat Strap Rings and Japanned Steel Rigging Rings.

Studs—XC Plated (Tinned).



Each

No. 140—Single Rig; Weight about 7 lbs.... **$19.00**

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Hand Stamped Border Decorations.

Tree—Western Style; 11 inch Seat; Wood Fork; Felt Covered.

Horn—Steel, Nickel Plated.

Seat—Plain and Broad, Full Cantle.

Skirts—16 inches Deep from Center of Seat; 8½ inches Wide; with Hand Stamped Border and Creased Edges.

Tie Straps—1 inch Wide; Creased Edges.

Stirrup Leathers—⅞ inch Wide; Creased Edges.

Girth—2¼ inch Corded Web with Leather Loops and 1 inch Japanned Roller Buckle.

Stirrups—2½ inch Boys; Plain Bent Wood.

Rings—¾ inch Japanned Coat Strap Rings.

Studs—XC Plated (Tinned).

One in a Box

Each

No. 27—Single Rig; Weight about 5 lbs..... **$16.50**

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Hand Stamped Border Decorations.

Tree—Western Style; 11 inch Seat; Wood Fork; Rawhide Covered.

Horn—Rawhide Covered and Stitched.

Seat—Open Front; Leather Pieced in Rear.

Skirts—8 inches Deep from Center of Seat; 14 inches Wide; with Hand Stamped Border and Creased Edges.

Fenders—5¾ inches Wide; 11 inches Long, with Hand Stamped Border and Creased Edges.

Tie Straps—1 inch Wide; Creased Edges.

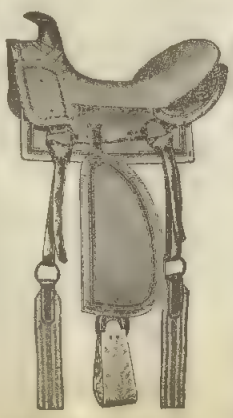
Stirrup Leathers—⅞ inch Wide; Creased Edges.

Girth—2½ inch Corded Web, with Leather Loops and Japanned Roller Buckle.

Stirrups—2½ inch Boys; Plain Bent Wood.

Rings—Japanned Steel Rigging Rings, ¾ inch Japanned Coat Strap Rings.

Studs—XC Plated (Tinned).



NEW MORGAN

Each

No. 22—Double Rig; Weight about 11 lbs..... **$24.50**

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Hand Stamped Border Decorations.

Tree—New Style Morgan; 13½ inch Seat; Wood Fork; Yellow Felt Covered; Yellow Felt Lined Bars.

Horn—Wood; Covered, with Cap.

Skirts—14½ inches Long, 12 inches Deep; Russet Tanned Leather; Unlined; Hand Stamped Border Decorations.

Cantle—Broad and Sloping; Stitched.

Seat—Solid; Good Size and Well Shaped; No Jockeys.

Double Rig—1¼ in. Wide Front and Back; Front Rigging Attached to Front Housing, Back Rigging Attached to Rear Housing.

Stirrup Leathers—1 inch Wide, Plain Strap.

Fenders—6½ inches Wide; 13 inches Long, Hand Stamped Border Decorations.

Long Latigoes—1 inch Wide

Short Latigoes—1 inch Wide

Girth—Cotton Web with Leather Loops and Japanned Steel Rings

Stirrups—2½ inch Solid Bent Wood, Plain, not Covered.

Rings—Steel Russet Enameled.

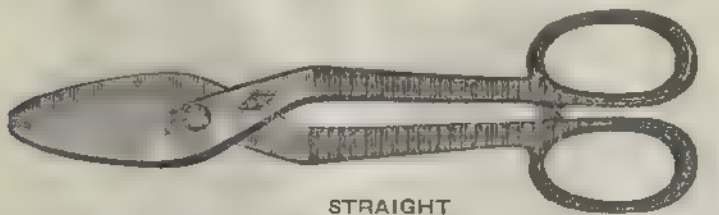
Studs—XC Plated Tin.

One in a Box

TINNERS SNIPS

★*DIAMOND EDGE*

Blades Made of 100 Point Carbon Steel, Carefully Tempered and Welded to the Inside of the Blade; Handles Made of 25 Point Carbon Steel; Oxidized Non-Rusting; Handles will not Bend in Use; Work Easy and Open Full Width of Cut without Straining the Hand.



STRAIGHT

Nos.	DE32	DE31	DE10	DE9	DE8	DE7	DE6½
Cut, Inches	2	2¼	2½	3	3½	4	4½
Length, Inches	8½	10	11¼	12¼	13	14¼	15½
Weight Pair, Lbs.	1½	1¾	1¾	2	2¼	2½	2¾
Per Pair	$1 70	1 90	2 50	2 70	3 30	4.00	5.00

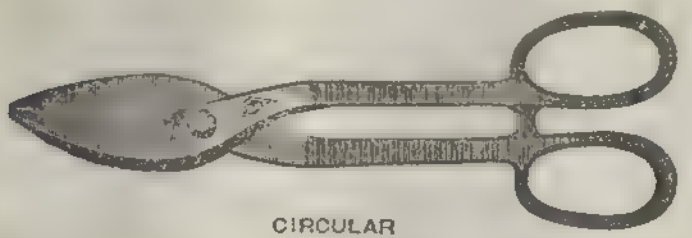
One Pair in an Envelope, Two Pairs in a Wood Box

BUFFALO PATTERN

Blades Shaped for Straight or Circular Work

Nos.	DE20	DE19	DE18	DE17
Cut, Inches	2½	3	3½	4
Length, Inches	11½	12½	13	14½
Weight Pair, Lbs.	1⅞	2¼	2¾	3½
Per Pair	$3.00	3.50	4 00	4.50

One Pair in an Envelope; Two Pairs in a Wood Box



CIRCULAR

Nos.	DE119	DE118	DE117
Cut, Inches	3	3½	4
Length, Inches	12½	13	14½
Weight Pair, Lbs.	2¼	2¾	3½
Per Pair	$4 50	5 00	5 50

One Pair in an Envelope; Two Pairs in a Wood Box

★BRIDGE, STRAIGHT

All Steel; Tempered Blades; Black Japanned Handles

Per Pair

No. B8½—3¼ inch Cut; Length 13 inches; Weight per Pair 1¾ lbs. $1.70

One Pair in an Envelope; Two Pairs in a Box

TINNERS SNIPS

PECK, STOW & WILCOX

Forged from Best Quality Norway Iron, Steel Laid, Polished Blades; Japanned Bows.

STRAIGHT

Nos.	PSW10	PSW9	PSW8	PSW7	PSW6½
Cut, Inches	2½	3	3½	4	4¼
Length, Inches	11	12	13½	14¼	15¾
Weight Pair, Lbs.	1	1½	2	2¼	3¼
Per Pair	$1 60	1.75	2 00	2.50	3 00
	2 88	3.16	3 60	4 50	5 40

One Pair in an Envelope

CIRCULAR

Nos	PSW110	PSW119	PSW118	PSW117
Cut, Inches	2½	3	3½	4
Length, Inches	11	12	13½	14¼
Weight Pair, Lbs.	1	1½	2	2½
Per Pair	$2 70	3 15	3 00	3 50
	4 32	5 00	5 40	6.30

One Pair in an Envelope

TIGER

All Steel Drop Forged; Carefully Tempered

Blue Black Japanned Handles

Per Pair

No. T12—5/8 in. Cut, Length 12 in., Weight per Pair 1¼ lbs.. $1.50

One Pair in an Envelope.

SPECIAL SNIPS

★ *DIAMOND EDGE*

Blades Made of 100 Point Carbon Steel Carefully Tempered; Handles Made of 25 Point Carbon Steel; Handles Will Not Bend in Use, Work Easy and Open Full Width of Cut Without Straining the Hand.

Adapted to All Kinds of Mechanical Uses, Such as Cutting Tin and Other Light Sheet Metal, Leather, Rubber, Packing, Gaskets, Wire, Etc. Useful to Mechanics and Automobilists, Convenient for Pocket or Tool Kit.

Per Pair

No. DE35—Polished Blades; Japanned Handles; Length of Cut 2 inches, Length Over All 7 inches; Weight per Doz. 6 lbs.... $1.50

Half Dozen in a Box

THE "HAND" OF SNIPS

There is Considerable Confusion Regarding the Meaning of Right and Left Hand Snips. Left Hand Means that the Work is at the Left of the Snips in Cutting and the Scraps at the Right. We Show Only Snips with Left Hand Cut, as they are Invariably Used by Right Hand Men, and are Always Cut unless Right Hand Snips are Specially Ordered.

Standard Bench Snips, However, are always Furnished Right Hand Cut, that is the Lower Blade is on the Right Side of the Shears

TINNERS SNIPS

P. S. & W., TROJAN

For Curves and Irregular Shapes; will Cut Sheet Metal, Pasteboard, Mica, Linoleum, Veneering etc.; Just the Thing for Scroll and Cornice Work.

Per Pair

No. 79—3 inch Cut; Length Over All 12¾ inches; Forged Steel; Japanned Handles; Weight per Pair 1¼ lbs..... $3.80

One Pair in a Box

★ALLCUT

A Convenient Snip for Tool Kits; Fitted Exactly Like a Regular Shear and will Cut Paper, Poultry Netting, Tin, Sheet Metals and Heavy Fabrics Equally Well; Adapted to Use of Tinners, Plumbers, Electricians and Home Mechanics.

Per Dozen Pairs

No. 222—2¾ inch Cut; Length Over All 10¾ inches; Steel Laid Blades; Highly Finished; Malleable Iron Handles; Black Japanned; Weight per Pair 1 lb..... $16 50

One Pair in a Box

STAR

Cast Iron, Ground Blades; Japanned Handles

Per Dozen Pairs

No. 2—2½ inch Cut; Length Over All 10 inches; Weight per Dozen Pairs 13 lbs..... $7 60

No. 3—3 inch Cut; Length Over All 12 inches; Weight per Dozen Pairs 17 lbs..... 8 00

Half Dozen Pairs in a Box

STOVE PIPE SNIPS

BERRIDGE

For Cutting and Crimping Stove Pipe; Adapted for Round or Circular Work.

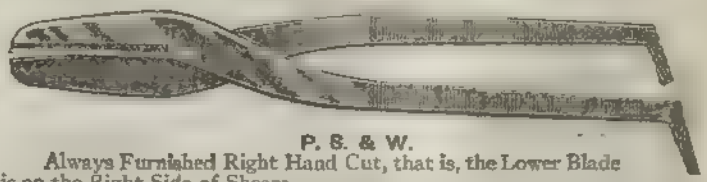
Each

No. 2B—2 inch Cast Steel Blade; Japanned Iron Handles; Length Over All 13 inches; Weight Each 2¼ lbs..... $5.00

Loose

TINNERS TOOLS

BENCH SHEARS



P. S. & W.

Always Furnished Right Hand Cut, that is, the Lower Blade is on the Right Side of Shears.

Nos.	PSW6	PSW5	PSW4	PSW3
Length Cut, Inches	6	7	8	8⅝
Entire Length, Inches	25	27	30	31
Will Cut Iron, Gauge Nos.	22	21	20	19
Weight per Pair, lbs.	8	9	12	13
Per Pair	$3 50	4 00	5.00	6.00
	11.10	12.10	14 80	16.80

Nos.	PSW2	PSW1	PSW0	PSW00
Length Cut, Inches	8⅝	9	10½	12
Entire Length, Inches	34	37	41	44
Will Cut Iron, Gauge Nos.	22	20	18	16
Weight per Pair, Lbs.	18	23	28	36
Per Pair	$7.00	8.00	12 00	13.50
	19 70	20.00	28.40	31.60

Loose

✣ELBOW BENCH SHEARS

Per Pair

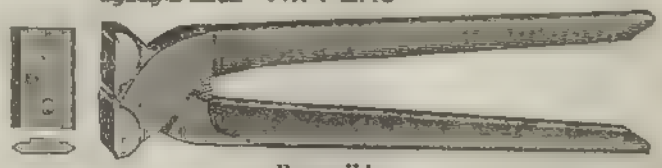
No. 31—4 inch Cut; will Cut No. 18 Iron; Weight per Pair 25 lbs... $13.20

No. 32—Extra Heavy; 6 inch Cut; will Cut No. 14 Iron; Weight per Pair 25 lbs..... 21 20

No. 33—Double Extra Heavy; 7½ inch Cut; will Cut No. 12 Iron; Weight per Pair 47 lbs..... 34 80

Loose

★Duluth Edge NIPPERS



Reversible

A Powerful Tool for Cutting Nails, Wire, Music Wire, etc. Will Stand Hard Usage; Tool Steel Jaws are Dovetailed into Head and are Reversible; Dead Black Forge Finish Handles and Head, Polished Steel Cutters.

Nos.	DE6	DE8	DE10	DE12	DE14
Length, Inches	6	8	10	12	14
Weight per Dozen, Lbs.	9	12	24	30	47
Each	$1.80	2 20	2.40	2.80	3.20

Two in a Box

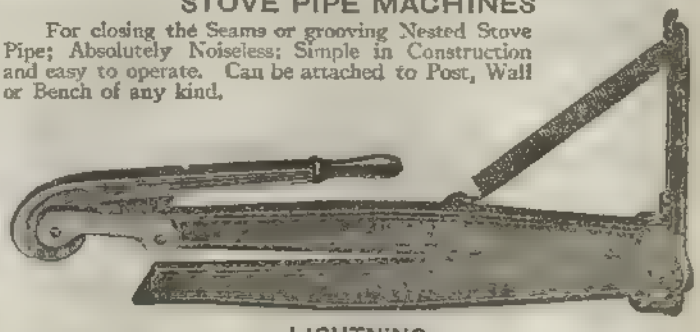
EXTRA CUTTERS

Nos.	DEX6	DEX8	DEX10	DEX12	DEX14
For Nippers No.	DE6	DE8	DE10	DE12	DE14
Weight per Pair, Ounces	2	2½	3	4	5
Per Pair	$0 60	.80	1.00	1.20	1.40

Loose

STOVE PIPE MACHINES

For closing the Seams or grooving Nested Stove Pipe; Absolutely Noiseless; Simple in Construction and easy to operate. Can be attached to Post, Wall or Bench of any kind.



LIGHTNING

Will take all gauges and sizes of Stove Pipe, and also used for closing seams on Furnace Pipe and other Sheet Metal articles. No Hammering or Malleting down; Every Joint a perfect one. To operate place pipe on lower bar, which is provided with holder to steady pipe; then lower the lever, thus closing the Seams perfectly; Raise the lever and the Machine is Automatically Set for the next Joint.

Each

No. L1—Made of Cast Iron; Length, 33 inches; Height 7 inches; Width, 5½ inches; Weight Crated, 50 lbs..... $28 00

One in a Crate.

Items Marked ✣ Not Carried in Stock; Can Only Be Furnished by Shipping Direct From Factory

TINNERS TOOLS

RAISING HAMMERS

PECK, STOW & WILCOX

With Hickory Handle

For All Kinds of Raised Work; Cast Steel, Japanned; Polished Faces.

	Each
✣ No. 4RH—1¼ pounds; 6⅜x1½ inch Head	$1.60
No. 3RH—2¼ pounds; 6⅜x1¾ inch Head	2.70
No. 2RH—3¾ pounds; 7⅛x2⅛ inch Head	3.70
✣ No. 1RH—5 pounds; 7¾x2⅜ inch Head	4.80
	Per Dozen
✣ Extra Handles for Raising Hammers; Hickory, Plain Finish	$2 50

Loose

BENCH PLATES

PECK, STOW & WILCOX

Cast Iron, Polished; with Socket Holes to Receive all Stakes, Swedges Formers, etc.

	Each
No. 2 30x8 inches; Weight 37 lbs	$10.00
No. 1 [illegible] inches; Weight 50 lbs	12 70
✣ No. 0—48x12 inches; Weight 94 lbs	22.10

Loose

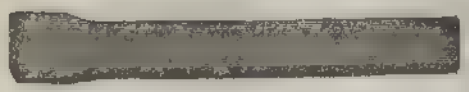
SCRATCH AWLS

PECK, STOW & WILCOX

	Per Dozen
No. PS1—Solid Steel, with Ring; Twisted Shank; Length 8½ inches; Weight per Dozen 1 lb	$3.10

One Dozen in a Box.

WIRE CHISELS



PECK, STOW & WILCOX

For Cutting Wire and Similar Small Work; Cast Steel; Length 5 in

Width, Inch	⅛	⅜	½	⅝	¾	✣⅞	1
Each	$0.24	.28	.30	.32	.35	.38	.42

Width, Inches	✣1⅛	1¼	✣1⅜	1½	✣1¾	✣2
Each	$0.45	50	.60	.66	.84	

One Dozen in a Box; Average Weight Each ⅛ to 2 oza.

LANTERN CHISELS

PECK, STOW & WILCOX

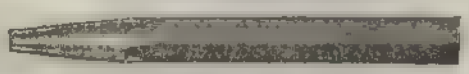
For Cutting Holes in Any Kind of Circular Work, Like Eave Trough etc.; Cast Steel Japanned; Polished Point.

	Each
⅛ inch Wide, 5¼ inches Long; Weight Each 3 ozs	$0.26
1 inch Wide, 5¾ inches Long; Weight Each 6 ozs	.36

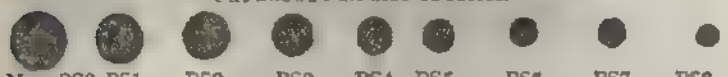
Loose

SOLID PUNCHES

PECK, STOW & WILCOX



Cut Shows Full Size of Holes.



Nos. PS0 PS1 PS2 PS3 PS4 PS5 PS6 PS7 PS8

SOLID PUNCHES

Nos.	PS0	PS1	PS2	PS3	PS4	PS5	PS6	PS7	PS8
Size in 32nds	9	8	7	6	5	4	3	2	1
Wt. Doz., Lbs.	2	1⅝	1¼	1¼	1¼	1⅛	1¼	1	¾
Each	$3.00	2.50	2.50	2.20	2.20	2.20	2.20	2 30	2.20

One Dozen in a Box.

TINNERS TOOLS

PRICK PUNCHES

PECK, STOW & WILCOX

	Per Dozen
No. PSP Cast Steel, Japanned; Square Shank; Length 5 inches; Weight per Dozen 1½ lbs	$2.00

One Dozen in a Box

HOLLOW PUNCHES

PECK, STOW & WILCOX

Japanned; Polished Edges; Average Length 5½ inches

Forged Steel

Sizes from ¼ to 1½ inches, Inclusive

Wrought Shank

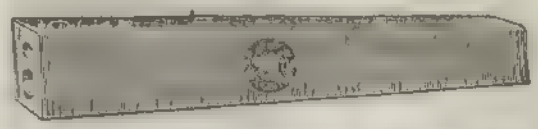
Sizes 1¾ and 2 inches.

Size, In.	¼	5/16	⅜	½	⅝	¾	⅞
Wt. Ea., lbs.	⅛	¼	¼	⅜	½	⅝	¾
Each	$0.58	.84	.84	1 14	1.42	1.70	2 00

Size, In.	1	1⅛	1¼	1⅜	1½	1¾	2
Wt., Ea., Lbs.	¾	1	1¼	1½	1⅝	2	2½
Each	$2 28	2 56	2 84	3 12	3 42	4.00	4.56

Loose

RIVET SETS AND HEADERS



PECK, STOW & WILCOX

Forged Steel; Gun Metal Finish; Perfectly Tempered

Full Size of Holes

Nos.	PS00	PS0	PS1	PS2	PS3
For Iron Rivets, Lbs.	14	10&12	8	6	4&5
For Cop. Rivets, Nos.	..	5	6	7	8
Weight Each, Ozs.	14	12	9	8	7
Each	$0 96	.88	.78	.78	.64

Full Size of Holes

Nos.	PS4	PS5	PS6	PS7	PS8
For Iron Rivets, Lbs.	2 & 3	1½ & 2	[illegible]	1¼	10 & 12
For Copper Rivets, Nos.	9	10 & 11	12	13	14
Weight Each, Ozs.	6	5	4	4	3
Each	$0 64	48	48	.44	.44

Half Dozen in a Box.

HAND GROOVERS

PECK, STOW & WILCOX

Forged Steel, Natural Finish; Round Shank.

Nos.	00	0	1	2	3
Groove, Inches	7/32	⅜	5/16	11/32	9/32
Weight Each, Lbs.	1⅝	1¼	1¼	1⅛	1
Each	$1 46	1.46	1 30	1.30	1.22

Nos.	4	5	✣6	✣7	✣8
Groove, Inches	¼	3/16	5/32	⅛	1/16
Weight Each, Lbs.	⅛	¾	¾	¾	¾
Each	$1 22	1.14	1.14	1.14	1 14

Loose

Items Marked ✣ Not Carried in Stock; Can Only Be Furnished by Shipping Direct From Factory

TINNERS TOOLS

STAKES

PECK, STOW & WILCOX

Wrought Iron with Steel Faces

SQUARE HEAD

Adapted for all Square Work

Each

No. CS—Common Square; Size of Face 4½x2¾ inches; Weight Each 11 lbs. $9.50

†No. SS—Small Square; Size of Face 2¾x1½ inches; Weight Each 3 lbs. 6.30

†No. LS—Large Square; Size of Face 5½x3½ inches; Weight Each 14 lbs. 14.90

Loose

ROUND HEAD

Used for Light Work, Riveting Handles on Covers, etc.

Each

No. RH—Diameter of Head 3½ inches; Length Over All 13½ inches; Weight Each 3½ lbs. $4.20

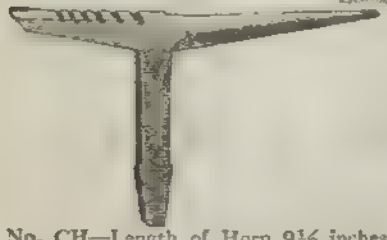
Loose

HATCHET

For Forming Seams on the Edges of a Sheet; Generally Used where Folder is Inconvenient.

Nos.	†1H	2H	3H	4H	5H	†6H
Blade, Inches	16	14½	13	11	9	7
Weight, Lbs.	14	12	9	6	4	3
Each	$11.60	10.60	9.50	8.50	6.30	5.80

Loose



CREASING

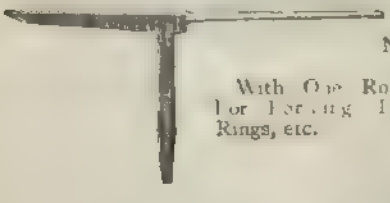
With Horn

The Horn is Used for Forming Tubes, Cylinders, etc.

Each

No. CH—Length of Horn 9½ inches, of Flat End 6½ inches; Weight Each 12½ lbs. $14.80

Loose



NEEDLE CASE

With One Round and One Square Arm. For Forming Largest and Smallest Tubes, Rings, etc.

Each

No. NC—Length of Horn 10½ inches, of Flat End 8 inches; Weight Each 4 lbs. $8.50

Loose

CANDLE MOULD

With Both Arms Round and Tapering.

For Forming Small Cylinders, Tubes, Rings, etc.

Each

No. CM—Length of Small End 18 inches, of Horn 8½ inches; Weight Each 6½ lbs. $9.50

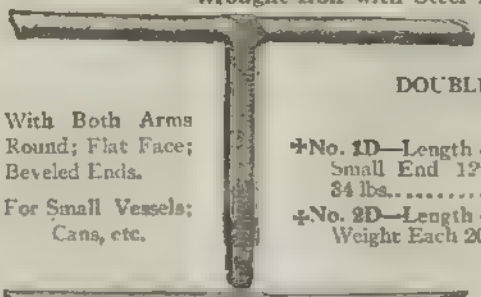
Loose

TINNERS TOOLS

STAKES

PECK, STOW & WILCOX

Wrought Iron with Steel Faces



With Both Arms Round; Flat Face; Beveled Ends.

For Small Vessels; Cans, etc.

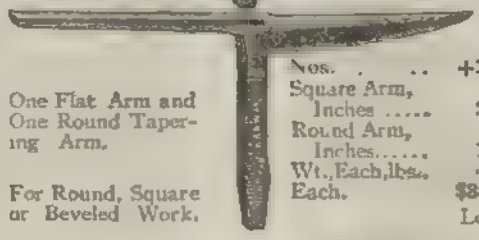
DOUBLE SEAMING

Each

†No. 1D—Length of Large End 17 in. Small End 12 in., Weight Each 34 lbs. $29.50

†No. 2D—Length of Each End 11 in. Weight Each 20 lbs. 25.30

Loose



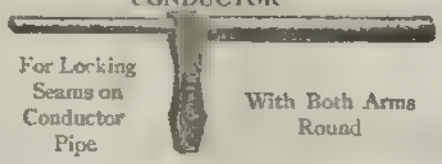
One Flat Arm and One Round Tapering Arm.

For Round, Square or Beveled Work.

Nos.	†1BK	2BK	†4BK
Square Arm, Inches	20	19	18
Round Arm, Inches	18	17½	16½
Wt., Each, lbs.	45	40	32
Each.	$35.80	31.60	27.40

Loose

CONDUCTOR



For Locking Seams on Conductor Pipe

With Both Arms Round

Each

No. 1C—Length of Large End 15 inches, of Small End 11½ inches; Weight Each 35 lbs. $10.00

†No. 2C—Length of Large End 14 inches, of Small End 10 inches; Weight Each 25 lbs. 9.00

Loose

BLOWHORN

With One Long Tapering Arm and One Oval Faced Tapering Arm.

The Long Tapering Arm for Forming Tubes, Cylinders and Similar Articles; the Short Arm for Forming Covers, etc.

Each

No. CBH—Length of Small End 17½ inches, of Large End 9 inches; Weight Each 19 lbs. $12.70

Loose

UNIVERSAL STAKE HOLDERS AND STAKES

PECK, STOW & WILCOX

Stakes Can be Used in any Desired Position, Without Marring the Bench.

Per Set

†Complete Set as Listed Below, with Stake Holder; Weight per Set 139 lbs. $88.00

One Set in a Wood Box

†STAKES FOR ABOVE SETS	Each
†Stake Holder; Weight 21 lbs.	$9.00
†Beakhorn; Weight 47 lbs.	22.00
†Blowhorn, Weight 10 lbs.	9.00
†Creasing; Wt. 8 lbs.	7.00
†Double Seaming; Wt. 26 lbs.	14.00
†Conductor; Wt. 16 lbs.	11.00
†Candle Mould; Wt. 4½ lbs.	9.00
†Needle Case; Wt. 4 lbs.	7.00
†EXTRA PARTS	**Each**
†Large End for Beakhorn; Wt. 4 lbs.	$11.00
†Small End for Beakhorn; Wt. 16 lbs.	11.00
†Flat End for Conductor; Wt. 10 lbs.	5.50
†Round End for Conductor; Wt. 10 lbs.	5.50
†Screw and Bolt for Stakeholder; Wt. 9 ozs.	1.00
†Nut for Stakeholder; Wt. 10 ozs.	.60

Loose

Items Marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

TINNERS TOOLS

STAKE HOLDERS AND STAKES

PECK, STOW & WILCOX

DOUBLE SEAMING

With Four Different Shaped Heads

Per Set

No. DSS—Set Consists of a 22x4 inch Square Arm, One 6 inch Round Head with Flat Face, One 5¾x4 inch Oblong Head with Round Face, One 5x4¾ inch Square Head with Flat Face, and One 9½x3 inch Oblong Head with Oval Face; Weight per Set 85 lbs. $22 10

One Set in a Wood Box

†EXTRA HEADS

Each

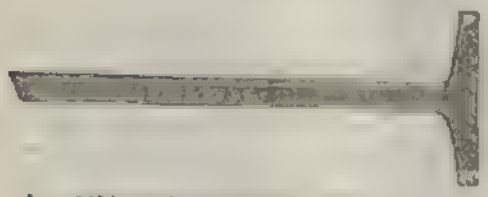
†For No. DSS Double Seaming Stake... $4 20

Heads Weigh from 11 to 18 lbs.

In Ordering Extra Heads be sure to Specify the Style Wanted.

MANDREL STAKES

P. S & W



With Oval Face; One Side Flat, One Side of Each Set Has Groove Down Each Side Full Length

Each

No. 00M ... $20 00

No. 0M ... 11 80

No. 1M ... 12 70

†No. 2M ... 10 00

†No. 3M ... 7.90

HOLLOW MANDRELS

P S & W

Secured to Bench in Such a Manner that it Can be Swung to any Desired Position and Fastened.

Nos.	111HM	†12HM	†13HM
Length, Inches	40	42	48
Oval Part, Inches	32	32	36
Flat Part, Inches	6	9½	15
Weight Each, Lbs.	45	190	300
Each	$13.70	$38.50	$63.20

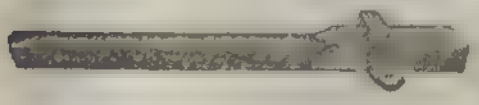
Each

†No. HMF—Hollow Mandrel Fasteners ... $1 20

Loose

STOVE PIPE MANDRELS

ADAMS



With Heavy Band Clamp for Attaching to Bench. This Mandrel will be Found Very Handy, Especially in Small Shops

Each

No. A—Cast Iron, Polished Face; Length Over All 36 inches; Width 4½ inches; Weight Each 40 lbs. ... $11.00

No. A2—Unpolished, Otherwise Same as Above; Weight Each 40 lbs. ... [illegible]

One in a Wood Box

TINNERS TOOLS

STOVE AND TIN PIPE FORMING MACHINES

STOW'S PATENT

Turned Steel Rolls, Smooth and Free From Imperfections; Cast Iron Frame, Japanned.

For Stove Pipe

Nos.			1	2
Diameter Rolls, Inches			2	1¾
Length Rolls, Inches			30	30
Weight Each, Lbs.			130	105
Each			$44 20	40 00

†For Tin Pipe

Nos.	31	32	35	36
Diameter Rolls, Inches	2	2	1	2
Length Rolls, Inches	20	10	12	12
Weight Each, Lbs.	51	40	34	42
Each	$27 40	25 30	24 00	28 00

†For Cans

Nos.	0	0½
Diameter Rolls, Inches	2	2
Length Rolls, Inches	37	40
Weight Each, Lbs.	150	160
Each	$50.60	56.90

One in a Wood Box

WITH COMPENSATING GEARS

Gears Run Smoothly, Regardless of Thickness of Metal, Without Danger of Slipping or Breaking; Cylinders Can be Formed from DXXX Tin as Small as 2½ inches, and from X Tin as Small as 2¼ inches Diameter.

†For Stove Pipe

Nos.	11	12	†13
Diameter Rolls, Inches	2	2	2
Length Rolls, Inches	30	30	37
Weight Each, Lbs.	100	123	140
Each	$46 30	50.50	58.90

†For Tin Pipe

Nos.	21	22
Diameter Rolls, Inches	1½	1½
Length Rolls, Inches	16	20
Weight Each, Lbs.	42	53
Each	$31 00	33.70

One in a Wood Box

PATENT SLIP ROLL FORMERS

With Compensating Gears

Easily Adjusted; Can be Quickly Set to Form Cylinders of Any Desired Size; Small Work Can be Taken from the End After it is Formed.

†For Stove Pipe

Nos.	†0100	100	†200
Diameter Rolls, Inches	2	2	1¾
Length Rolls, Inches	37	30	30
Weight Each, Lbs.	140	125	116
Each	$61.10	54.80	50.50

†For Tin Pipe

Nos.	101	102
Diameter Rolls, Inches	1½	1½
Length Rolls, Inches	20	16
Weight Each, Lbs.	50	45
Each	$37 90	35.80

One in a Wood Box

TINNERS TOOLS

STOVE AND TIN PIPE FORMING MACHINES

PECK, STOW & WILCOX

PATENT SLIP FORM ROLLERS

Back Geared; Compensating Gears.

For Heavy Work; Two Revolutions of the Crank to One Revolution of the Rolls; Small Work Can be Taken from the End After it is Formed.

Each

†**No. 01**—Diameter of Rolls 2 inches; Length 30 inches; Weight Each 154 lbs..... $80 00

NOTE—Above Machine, with Legs; Additional, Each..... 15 00

One in a Box

†**Pulley** 12x4 inches to Make Power Machine of Above Former; Weight Each 15 lbs..... 10 50

Loose

BEADING MACHINES

STOW'S PATENT

With Interchangeable Parts

Has Guide Rest in Front on which the Article rests while the Bead is formed; each Machine is equipped with 3 Pairs of Rollers and Rotary Stand; will Bead 20 Gauge Iron.

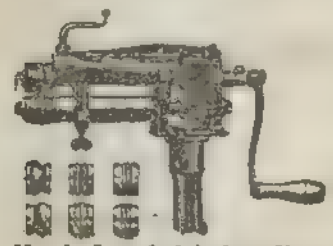
Nos.	1	†3
Length, Inches	13	[illegible]
Ogee Bead, Inches	1	[illegible]
Triple Bead, Inches	1	[illegible]
Single Bead, Inches	⅜	⅛
Weight Each, lbs.	117	81
Each	$73 70	63 20

One in a Box

†EXTRA PARTS

†For Machine, Nos	1	3
†Rollers, per Pair	$7 50	7 50
†Crimping Rolls, per Pair	12 70	8 50
†Stands, Each	8.90	8.90
†Guide Rests, Each	4.20	4 20
†Cranks, Each	1.00	1 00
†Crank Screws, Each	1 00	1 00

Loose



STOW'S PATENT

With Interchangeable Parts

Will Bead Material up to and Including 26 Gauge.

Each

No. 4—Length 6 inches; Size of Beads: Ogee, ¾ inch; Triple, ⅝ inch; Triple Coffee Pot, ⅞ inch; Single, ⅜ inch; Weight Each 35 lbs..... $46.30

†**No. 5**—Length 4 inches; For Tin; Size of Beads: Astragal, ⅛ inch; Ogee, ⅛ inch; Triple Coffee Pot, ⅝ inch; Triple Coffee Pot, Fine, ⅛ inch; Single Bead ⅛ inch; Weight Each 20 lbs... 42 10

†EXTRA PARTS

†For Machines, Nos	4	5
†Rollers, per Pair	$5.50	3.20
†Crimping Rolls, Per Pair	7.50	7.50
†Stands, Each	2.50	2.50
†Guide Rests, Each	2.70	2.70
†Cap and Crank Screw, Each	4.00	4.00

Loose

TINNERS TOOLS

ROOFING FOLDERS

PECK, STOW & WILCOX

Solid Oak, Natural Finish; Steel Edge; Iron Carrying Handle. For Flat Seam Tin Roofing.

Adjustable, With Gauge Each

†**No. 1RF**[illegible] Adjustable to 20 or 30 inches; Weight Each [illegible] lbs..... $13 10

Improved, With Gauge

†**No. 1RF20**—20 inches Long; Weight Each 11 lbs..... 10 00

No. 1RF30—30 inches Long; Weight Each 15 lbs..... 12.10

Common, Without Gauge

†**No. RF14**—14 inches Long; Weight Each 7 lbs..... 6.00

†**No. RF20**—20 inches Long; Weight Each 9 lbs..... 6.90

No. RF30—30 inches Long; Weight Each 12 lbs..... 7.00

Loose

†EXTRA STEEL BLADES

For Roofing Folders Each

†**For 20 inch Folder**; Weight Each 2[illegible] lbs..... $2 00

†**For 30 inch Folder**; Weight Each 3[illegible] lbs..... 3 00

Loose

ROOFING DOUBLE SEAMERS

PECK, STOW & WILCOX

Used in Places where Seaming Tongs would be inconvenient.

Two Pairs to Match, Make One Set; Cast Steel; Japanned.

A Set Consists of Two Pairs; Cut Shows one Pair.

Per Set of Two Pairs

No. RDS—Size of Faces 1x1¼ inches and 1[illegible]x1[illegible] inches; Weight per Set 19 lbs..... $5 60

Loose

Single Pairs One-Half Above Price

COMMON ROOFING TONGS

PECK, STOW & WILCOX

Used to Turn Seams and to Draw the Two Sides of Tin Together Before Cleating. Each Set Turns but One Size of Seam; Made of Steel, Japanned; 24 inches Long; 17 inch Clamps.

Cut Shows One Pair. A Set Consists of Two Pairs.

Per Pair

No. RT1—Turns 1 inch Seams..... $6.30

No. RT1¼—Turns 1¼ inch Seams..... 6 30

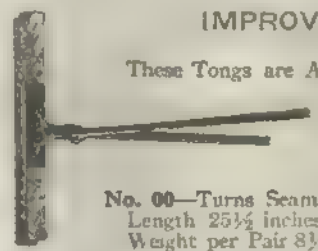
No. RT1½—Turns 1½ inch Seams..... 6.30

Average Weight per Pair 9 lbs.

Loose

IMPROVED ROOFING TONGS

STOW'S



These Tongs are Adjustable; a Single Pair will Turn Five Different Widths of Seams; they are not, therefore, Sold in Sets; Made of Steel, Japanned.

Per Pair

No. 00—Turns Seams ½, ¾, 1, 1¼ and 1½ inches; Length 25½ inches; Length of Clamps 18½ inches; Weight per Pair 8½ lbs..... $8.50

Each

†**Extra Blades** for Above; Weight Each 2¼ lbs..... 3.00

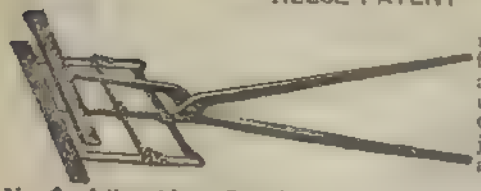
†**Extra Bolts** for Above; Weight Each 1½ ozs..... .50

†**Extra Screws** for Above; Weight Each 1 oz..... .30

Loose

Items Marked † Not Carried in Stock; Can Only Be Furnished by Shipping Direct From Factory, Southington, Conn.

TINNERS TOOLS
ROOFING TONGS
REESE PATENT



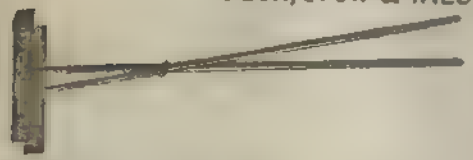
With Adjustable and Removable Gauge. Suitable for Edging and Bending any Kind of Sheet Metal up to 22 Gauge; Steel Clamps, Japanned; Adjusted by Thumb Screw and Sliding Gauge.

Per Pair

No. 0—Adjustable to Turn Edges from ⅛ to 10 inches; Length 36 inches; Width of Clamps 14 inches; Weight per Pair 11¼ lbs... $14.80

Loose

GUTTER TONGS
PECK, STOW & WILCOX



For Turning Up Gutter, etc. Steel Clamps, Malleable Iron Handles, Japanned; Suitable for Iron or Steel up to 22 Gauge.

Per Pair

No. GT—Length 37 inches; Width of Clamps 13 inches; Weight per Pair 10 lbs..... $8 50

Loose

DOUBLE SEAMERS
BURRITT'S

Japanned Malleable Iron, Hollow Tubed Iron Handles and Malleable D Handle. Will Double Seam Hips and Ridges, can be used by either Hand or Foot Power. When Shipped they are fitted for IC Tin.

Per Set 2 Pairs

No. BRDSC—With Gauge; to follow 1 and 1¼ inch Tongs, forming ⅝ inch Locks; Length Over all 30 inches; Width 15 inches; Size of Blade ⅝ to 2 inches; Weight each 21 lbs. $42.00

No. BRDSW—With Wide Gauge; to follow 1¼ and 1½ inch Tongs, forming 1 inch Locks; Length Over all 2[illegible] inches; Width 15 inches; Size of Blade 3½ inches; Weight Each 40 lbs. $42 00

One in a Box

GUTTER BEADERS
PECK, STOW & WILCOX

For Turning Beads on Eave Trough, Miters, etc.; Iron Bottom, with En[illegible] Rod.

Each

✢ No. 12 —Length 15 inches; Weight Each 6 lbs..... $12.70
✢ No. 11 —Length 20 inches; Weight Each 11 lbs 12.70
No. 02½B—Length 30 inches; Diameter of Rod ½ inch; Weight Each 18 lbs... ..... 16.90
No. 02⅝B—Length 30 inches; Diameter of Rod ⅝ inch; Weight Each 18½ lbs..... ..... 16 90
✢ No. 01 —Length 42 inches; Weight Each 25 lbs. 25 30
✢ No. A1 —Length 60 inches; Wt. Each 90 lbs..... 51.50

One in a Wood Box

GUTTER RODS
PECK, STOW & WILCOX

For Gutter Beaders Shown above; Made of Steel.

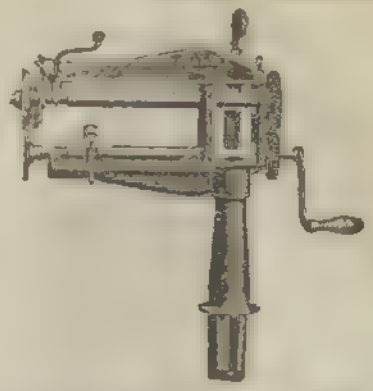
Each

✢ No. 12 —Length 15 inches, Diameter ⅜ to ⅝ inch; Average Weight Each 1¼ lbs. $5.80
✢ No. 11 —Length 20 inches, Diameter ⅜ to ⅝ inch; Average Weight Each 1¾ lbs. 5.80
No. 02½—Length 30 inches, Diameter ½ inch, Weight Each 4¼ lbs 7.90
✢ No. 02⅝ Length 30 inches, Diameter ⅝ inch; Weight Each 4¼ lbs 7.90
✢ No. 01 —Length 42 inches, Diameter ½ to ⅞ inch; Average Weight Each 8 lbs.. ..... 10.60
✢ No. A1 —Length 60 inches, Diameter ⅝ to 1 inch; Average Weight Each 13 lbs. 14.80

Loose

Diameter of Rod Wanted Must Invariably be Given, or Orders Cannot be Filled.

TINNERS TOOLS
DOUBLE SEAMING MACHINES



MOORE PATENT
With Stand

For General Purposes; Adapted to Metals up to No. 26 Gauge. The Only Machine that will Double Seam Coffee Pots.

✢No. 1—For Heavy Metal; Length 17 inches; Diameter of Face 1⅝ inches; Weight Each 50 lbs. ..... Each $73 70

✢No. 2—For Common Work; Length 13 inches; Diameter of Face 4 inches; Weight Each 45 lbs 59 00

✢No. 3—For Coffee Pots; Length 10 inches; Diameter of Face 2¾ inches..... ..... 03 20

One in a Wood Box

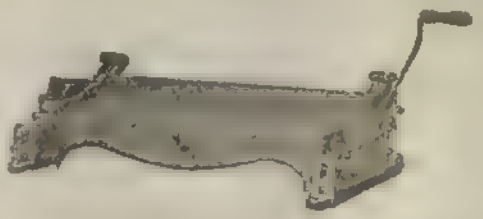
EXTRA PARTS

Each

Faces—Weight Each 2 lbs..... ..... $5 00
Stands—Weight Each 10 lbs 2 00

NOTE—No. 2 is the Best Size for the Average Shop; it will Take Wash Boilers and all Kinds of Shallow Vessels.

TIN FOLDING MACHINES
ADJUSTABLE BAR FOLDERS
STOW'S PATENT



Will Turn Locks from ⅛ to 1 inch Wide; Nos. 152 and 154 are Adapted to Metals up to 22 Gauge; No. 352 will Turn Locks on 20 Gauge Metals.

The Gauge is Moved by a Hand Wheel in the Center and Fastened by a Set Screw at Left End of Frame; the Movement of the Gauge is instantaneous; it is Adjustable to Fractions of Inches

Each

✢No. 152—Length 20 inches; Weight 80 lbs.... ..... $94 20

✢No. 154—Length 2[illegible] inches; Weight 125 lbs 94 80

One in a Wood Box

This Machine is Gradually Superseding all Other Makes on Account of its Great Strength and Durability; No. 13 Has a Handle at Each End.

SHEET IRON FOLDERS
CHAMPION

Gauge is Adjustable to Form [illegible] Width of Bar is Graduated [illegible] Steel Bed, [illegible] Locks of Uniform Width the Entire Length, this Bed can be Removed from the Top of the Frame and can be Replaced at Small Expense.

Each

No. 11—Length 33 inches; Adapted to Metals up to 26 Gauge, Weight Each 100 lbs..... .....$42 10

✢No. 13—Length 42 inches; Adapted to Metals up to 24 Gauge; Weight Each 20 lbs. 63 20

One in a Wood Box

TINNERS TOOLS

SHEET IRON FOLDERS

WRIGHT IMPROVED

This Machine will Turn Locks on any Length of Sheet; for this Purpose a Round Rod is Furnished and is so Placed that the Sheet is put into the Machine over it; when the Folding Bar is Turned a Slight Bend is Made the Entire Length of Sheet; the Operation Being Repeated till the Lock is Finished.

Gauge is Adjustable to Form Locks 1/8, 3/16, 1/4 and 5/16 inch Wide; Steel Strips are Furnished to Use Under the Plate for Turning Locks Wider than the Plate.

	Each
No. 12—Length 30 inches; Adapted to Metals up to 24 Gauge; Weight Each 75 lbs.	$41.10
✣No. 17—Length 62 inches; Adapted to Metals up to 22 Gauge; Weight Each 175 lbs.	128 50

One in a Wood Box

WRIGHT PATENT

Gauge is Adjustable to Form Locks 3/16 and 5/16 inch Wide.

This Machine is Intended for Ordinary Work only; it Answers all General Purposes in the Average Shop.

	Each
✣No. 00—Length 62 inches; Adapted to Metals up to 22 Gauge; Weight Each 140 lbs.	$115.80
No. 0—Length 42 inches; Adapted to Metals up to 22 Gauge; Weight Each 100 lbs.	54 80
✣No. 1—Length 30 inches; Adapted to Metals up to 24 Gauge; Weight Each 75 lbs.	33.70

One in a Wood Box

STOW'S IMPROVED

These Machines can Only be Used in Turning Flat Sheets.

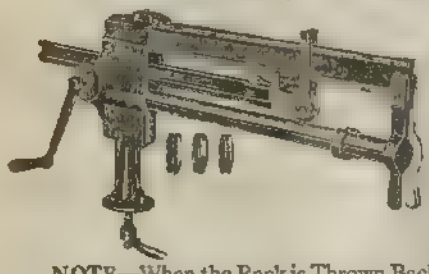
Iron Bottom; Will Turn Locks from 1/8 to 3/8 inch Wide; the Gauge is Moved by Sliding Endwise and is Always on a Line Parallel with the Edge of the Folding Plate.

	Each
No. 10—Length 30 inches; Adapted to Metals up to 26 Gauge; Weight Each 58 lbs.	$31.60
✣No. 15—Length 42 inches; Adapted to Metals up to 26 Gauge; Weight Each 175 lbs.	52 70
✣No. 20—Length 60 inches; Adapted to Metals up to 24 Gauge; Weight Each 300 lbs.	105.30

One in a Wood Box

GROOVING MACHINES

PECK, STOW & WILCOX



IMPROVED

With Three Grooving and One Flattening Rolls.

With Square Supporting Bar The Work is Always in Sight; Seams can be Formed Either on the Inside or Outside, of Cylinder; may be Used on all Vessels not Less than 2 inches in diameter; Adapted to Metal not Heavier than 22 Gauge.

NOTE—When the Rack is Thrown Back to the Standard the Grooving Roll is Lifted from the Lower Bar and can Easily be Released to Change the Rolls.

	Each
✣No. 110—Length 20 inches; Size of Grooving Rolls, 1/8, 3/16 and 1/4 inch; Weight Each 95 lbs.	$53.20
No. 120—Length 30 inches; Size of Grooving Rolls, 5/32, 1/4 and 3/8 inch; Weight Each 110 lbs.	63.70

One in a Wood Box

TINNERS TOOLS

GROOVING MACHINES

PECK, STOW & WILCOX

✣IMPROVED

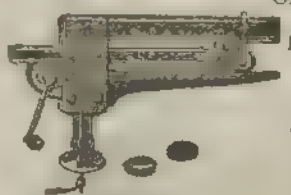
With Following Roll

With Square Supporting Bar. The Work is Always in Sight; Seams can be Formed Either on the Inside or Outside of Cylinder; may be Used on all Vessels not Less than 2 inches in Diameter. Adapted to Metal not Heavier than 22 Gauge

The Following Roll (Kennedy's Patent Attachment) is for Flattening the Seams; the Seam is Grooved and Flattened in one Operation; With Three Grooving and One Flattening Rolls.

	Each
✣No. 210—Length 30 inches; Size of Grooving Rolls 1/8, 3/16 and 1/4 inch; will Groove Work up to 20 inches; Weight Each 105 lbs	$63 20
✣No. 220—Length 40 inches; Size of Grooving Rolls 3/16, 1/4 and 5/16 inch; will Groove Work up to 30 inches; Weight Each 130 lbs.	73.70

One in a Wood Box



PATENT BRASS MOUNTED GROOVER

With Steel Bar and Milled Horn.

Adapted to Locking Seams on Metals up to 24 Gauge; Complete with Three Grooving Rolls; Sizes 1/8, 5-32 and 7-32 inch

	Each
✣No. 01—Length 20 inches; Weight 78 lbs.	$37.80
✣No. 02—Length 17 inches; Weight 69 lbs.	19 80

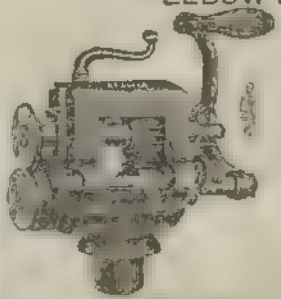
One in a Wood Box

✣EXTRA PARTS FOR NOS. 01 AND 02 GROOVERS

	Each
✣Standards	$2 00
✣Rollers (1/8, 5-32 or 7-32 inch)	1 50
✣Groover Ratchet, with Brass Mountings; 10 lbs	6.50
✣Groover Ratchet, without Brass Mountings	4.50

Loose

ELBOW EDGING MACHINES



(COLUMBIAN)

Saves One-Third of the Time of the Operator in Putting Elbows Together; Forms Both the Crease and Bead for Uniting the Two Sections.

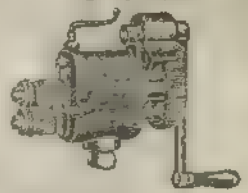
	Each
No. CEES—Machine with Standard; Weight Each 25 lbs.	$29 50

One in a Wood Box

✣Extra Rolls or Faces; Weight per Pair 1 lb.	$6 50

One in a Wood Box

STOVE PIPE CRIMPERS AND BEADERS



P. S. & W.

Two Collars are Furnished to Substitute for Beading Rolls when Crimping Only is to be Done; Adapted to Metals up to 22 Gauge.

	Each
✣No. 7A—With Standard; Spiral Rolls; Weight 45 lbs.	$33.70
✣No. 07A—With Standard; Straight Rolls; Weight 45 lbs.	33 70
✣No. 9A—With Foot Lever; Spiral Rolls; Weight 55 lbs.	44.30

One in a Wood Box

PACKHAM

Adapted to Metals up to 22 Gauge

	Each
No. PC—With Standard; Spiral Beading and Crimping Rolls; Weight Each 27 Lbs.	$20 00

One in a Wood Box

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Southington, Conn.

TINNERS TOOLS

TURNING MACHINES

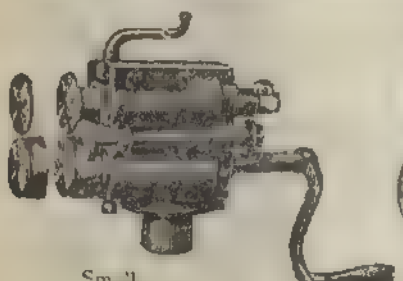
Used in Preparing Vessels for Wiring and Burring, Putting Stove Pipe Elbows Together; Each Size of Machine Has Two Sets of Rolls, Adapting Them to the Sizes of Wire Most Commonly Used; Adapted to Metals Up to 24 Gauge.

Small

Large

STOW'S COLUMBIAN

	Each
No. CSTS—Small; With Standard; Wt. Each [illegible]	$29.50
No. CST —Small; Without Standard; Wt. Each [illegible] lbs	27.50
No. CLTS —Large; With Standard; Wt. Each 30 lbs	30.50
No. CLT —Large; Without Standard; Wt. Each 20	28.50
✣ Extra Faces, for Small or Large Machines	2.00


Small

Large

STOW'S ENCASED

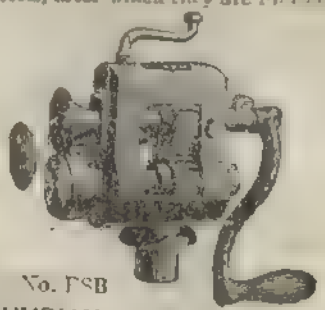
With Adjustable Faces and Interchangeable Parts; Gearings Are Fully Protected.

	Each
No. ESTS—Small; With Standard; Wt. Each 24 lbs	$35.80
No. EST —Small; Without Standard; Wt. Each 14 lbs.	33.80
No. ELTS—Large; With Standard; Wt. Each 29 lbs.	36.00
No. ELT —Large; Without Standard; Wt. Each 19 lbs.	34.00
✣ Extra Faces for Small or Large Machines	2.00

BURRING MACHINES

Used for Turning Up Edges on Vessels, after which they are Finished on the Setting Down Machine.

No. CSB


No. LSB

STOW'S COLUMBIAN

Lid Frame; Faces Pass Over Seams Without Straining

Complete With Extra Upper Face	Each
No. CSBS—Small; With Standard; Wt. 21 lbs.	$26.30
No. CSB —Small; Without Standard; Wt. 11 lbs	24.30
No. CLBS —Large; With Standard; Wt. 26 lbs	27.40
No. CLB —Large; Without Standard; Wt. 16 lbs.	25.40
✣ Upper Faces; for Large and Small Machines; Weight 2 lbs.	2.00
✣ Lower Faces; for Large and Small Machines; Weight 3 lbs.	4.00

STOW'S ENCASED

Adjustable Boxes and Interchangeable Parts; Gearings Are Fully Protected.

Complete With Extra Upper Face	Each
No. ESBS—Small; With Standard; Weight 24 lbs.	$32.60
No. ESB —Small; Without Standard; Wt. 14 lbs.	30.60
No. ELBS—Large; With Standard; Wt. 24 lbs.	33.70
No. ELB —Large; Without Standard; Wt. 14 lbs.	31.70
✣ Upper Faces; for Large and Small Machines; Weight 2 lbs.	2.00
✣ Lower Faces; for Large and Small Machines; Weight 3 lbs.	4.00

TINNERS TOOLS

WIRING MACHINES

Used for Rolling the Sheet Metal Tightly Around the Wire After Its Seat Has Been Prepared by the Turning Machine; Adapted to Metals Up to 24 Gauge.

No. CW

No. EW

STOW'S COLUMBIAN

Solid Frame, Interchangeable Parts; Faces Pass Over Seams Without Straining

	Each
No. CWS—Machine, With Standard; Wt. 33 lbs.	$33.70
No. CW —Machine, Without Standard; Wt. 23 lbs.	31.70
✣ Upper or Lower Roll With Arbor; Wt. Each 2 lbs.	5.00

STOW'S ENCASED

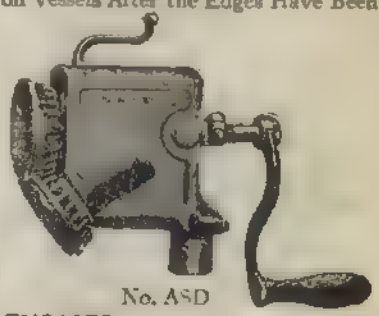
Adjustable Boxes and Interchangeable Parts; Gearings are Fully Protected.

	Each
No. EWS—Machine, With Standard; Wt. 30 lbs.	$40.00
No. EW—Machine, Without Standard; Wt. 20 lbs.	38.00
✣ Upper or Lower Roll With Arbor Weight Each 2 lbs.	5.00

SETTING DOWN MACHINES

Used to Fasten the Bottoms on Vessels After the Edges Have Been Turned on the Burring Machine.

No. LSD


No. ASD

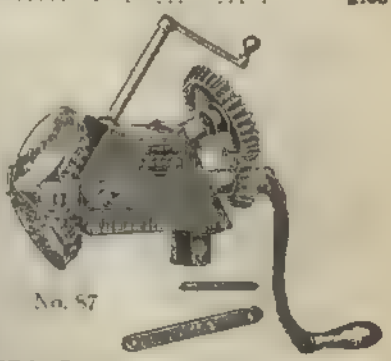
STOW'S ENCASED

	Each
No. ESDS—Machine, With Standard; Wt. 21 lbs.	$29.50
No. ESD —Machine, Without Standard; Wt. [illegible] lbs	27.50
✣ Extra Heavy Machine, With Standard; Wt. Each 29 lbs.	31.60

EXTRA PARTS

	Each
Upper Rolls	$6.00
Lower Rolls	6.00
Lower Journal Plates	1.00

No. 86


No. 87

IMPROVED

For No. 24 Iron and Lighter	Each
✣ No. 86—Setting Down Machine with Standard Weight 31 lbs	$85.80

HEAVY

Back Geared 2 to 1. For No. 18 Iron and Lighter	Each
✣ No. 87—Heavy Setting Down Machine with Standard Wt. 100 lbs.	$73.70

All Above, Packed One in a Wood Box

Items Marked ✣ Not Carried In Stock; Can Only be Furnished by Shipping Direct from Factory, Southington, Conn.

TINNERS TOOLS

SQUARING SHEARS

Also Adapted for Cutting Leather, Cloth, Paper, Rubber, etc.

HULL'S ACME

With Top and Side Extension Tables.

Fitted with Front and Back Gauges for Squaring, Stripping and Cutting at any Desired Angle without First Marking the Sheets.

	Each
✣No. 725—25 inch Blade; will Cut 16 Gauge Iron; Weight Each 380 lbs.	$111 20
✣No. 730—31 inch Blade; will Cut 15 Gauge Iron; Weight Each 425 lbs.	120 20
✣No. 731—31 inch Blade; will Cut 14 Gauge Iron; Weight Each 660 lbs.	220 00
✣No. 736—37 inch Blade; will Cut 15 Gauge Iron; Weight Each 570 lbs.	141 70
✣No. 740—42 inch Blade; will Cut 15 Gauge Iron; Weight Each 900 lbs.	282 00

EXTRA BLADES

Nos.	Length for Shear	No.	Wt.	Per Pair
725B	25	725	10 lbs.	$28.00
730B	31	730	15 lbs.	[illegible]
736B	37	736	25 lbs.	[illegible]
740B	42	740	35 lbs.	[illegible]

Loose

HULL'S ACME

Fitted with Front and Back Gauges for Squaring, Stripping and Cutting at any Desired Angle without First Marking the Sheets.

	Each
✣No. 0—22 inch Blade; will Cut Tin; Weight Each 300 lbs.	$95 00
✣No. 1—25 inch Blade; will Cut Tin; Weight Each 300 lbs.	110 00
No. 2—31 inch Blade; will Cut 18 Gauge Iron; Weight Each 425 lbs.	116 00
✣No. 2½—37 inch Blade; will Cut 18 Gauge Iron; Weight Each 500 lbs.	137 50
✣No. 3—42 inch Blade; will Cut 16 Gauge Iron; Weight Each 600 lbs.	288 00
✣No. 4—52 inch Blade; will Cut 16 Gauge Iron; Weight Each 1200 lbs.	360.00
✣No. 5—61 inch Blade; will Cut 18 Gauge Iron; Weight Each 1,650 lbs.	372.00

EXTRA BLADES

Nos.	Length	For Shears	Wt.	Per Pair
0B	22 in.	No. 0	10 lbs.	$25 50
1B	25 in.	No. 1	15 lbs.	28 00
2B	31 in.	No. 2	20 lbs.	[illegible]
2½B	37 in.	No. 2½	30 lbs.	[illegible]
3B	42 in.	No. 3	45 lbs.	[illegible]
4B	52 in.	No. 4	60 lbs.	78 00
5B	61 in.	No. 5	70 lbs.	[illegible]

Loose

NOTE—An Extra Charge will be Made for Boxing, when Required; Shipped from Cleveland, Ohio.

TINNERS TOOLS

SQUARING SHEARS

PECK, STOW & WILCOX

Also Adapted for Cutting Leather, Cloth, Paper, Rubber, etc.

CONTINUOUS CUTTING OR GAP SHEARS

With Hold Down Attachment and Top and Side Extension Tables.

Sheet Metal of any Length can be Cut into Strips from ½ inch to 18 inches Wide; the Gauges can be Set [illegible], the Hold Down Attachment can be Placed [illegible] Point; the Gauges at the Ends of the Blades Should be Removed to Cut Metal into Strips Longer than 30 inches; with Extension Treadle by which Increased Leverage is Obtained for Heavy Metals.

	Each
✣No. 85—With Treadle; 30 inch Blade; 15 inch Throat; will Cut 16 Gauge Iron; Weight Each 1,275 lbs.	$320 00
✣No. 88—With Treadle; 37 inch Blade; 18 inch Throat; will Cut 16 Gauge Iron; Weight Each 1,450 lbs.	350 00
✣No. 185—For Power; 30 inch Blade; 15 inch Throat; will Cut 16 Gauge Iron; Weight Each 1,700 lbs.	[illegible]

Loose

NOTE—An Extra Charge will be Made for Boxing, when Required; Shipped from Cleveland, Ohio.

ROTARY SHEARS

✣WAUGH'S PATENT BEVEL, SQUARE AND CIRCULAR SHEAR

This Machine is Exceptionally Easy to Operate and Adjust; the Frame Bearing the Discs can be Removed and a Squaring Attachment Substituted by which Metals can be Slit, Cut Square or at any Desired Bevel.

Squaring Attachment

FOR LIGHT MATERIAL

Operated by Hand

	Each
Will Cut any Square or Bevel Under 20 inches; can be instantly Changed to Cut Circles; Adapted to Metals up to 12 Gauge.	
✣No. 2—Will Cut Circles 2¼ to 20 inches; Weight Each 70 lbs.	$76 00

✣EXTRA PARTS

For all Above Machines

	Per Pair
✣No. 1D—Extra Discs	$4 00
✣No. 1C—Extra Cutters; Weight 1 lb.	✣8 50
✣No. 1CS—Extra Cutters with Shafts	16 00
	Each
✣No. 1HC—Head with Cutters; Wt. Each 35 lbs.	$30 00
✣No. 1TP—Tail Piece or Slide; Wt. Each 20 lbs.	24 00

FOR HEAVY MATERIAL

Operated by Hand and Power.

	Each
✣No. 3—For Both Hand and Power; will Cut Circles from 4 to 40 inches Diameter from Metals up to 20 Gauge; Weight Each 225 lbs.	$190 00
✣No. 4—For Power Only; will Cut Circles from 4 to 48 inches Diameter from Metals up to 18 Gauge; Weight Each 500 lbs.	280 00

✣EXTRA PARTS

	Each
✣No. 3C—Cutters for No. 3, Weight 18 lbs.	$32 00
✣No. 4C—Cutters for No. 4, Weight 24 lbs.	38 00

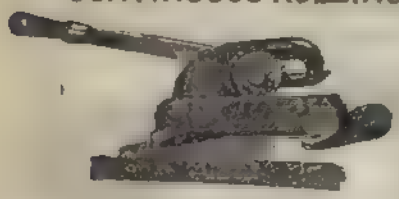
All Above Packed One in a Wood Box.

Items Marked ✣ Not Carried in Stock; Can Only Be Furnished by Shipping Direct From Factory, Southington, Conn.

TINNERS TOOLS

CONTINUOUS ROLLING CUTTER SHEARS

PECK, STOW & WILCOX



In these Shears the Power Travels with the Cutter; they are Operated by a Pinion Lever Engaging in a Rack and Cutting with the Forward Roll of the Disc; the Disc is Reversible and can be Changed to 6 Different Positions; the Straight Cutter Blade is Double Edged; the Motion of the Disc is about 1-3 of its Circumference. Pieces may be Cut out of Sheet Metal without Leaving Cross Marks.

Each

✣ **No. 11**—Will Cut 20 Gauge Iron; Length 12½ inches; Weight Each 9 lbs. **$11.00**

No. 12—Will Cut 16 Gauge Iron; Length 19 inches; Weight Each 11 lbs. **13.00**

✣ EXTRA PARTS

For Shears, Nos.	11 Each	12 Each
✣ Bed, Complete (Drilled and Fitted)	$4.20	7.20
✣ Disc	3.60	6.00
✣ Lower Blades	1.20	1.80
✣ Lever, Complete	1.80	3.00
✣ Disc Bolt, Complete	2.40	3.00
✣ Blade Clamp Bolts	.50	.50

Loose

COMBINED SHEARS AND PUNCHES

P. S. & W.

This Machine is for Both Cutting and Punching Metal; will Cut ⅛ inch Iron, and 3-16 and ¼ inch Narrow Bars.

Each

No. 1—4½ inch Cut; will Punch ⅛ inch Iron and to the Center of a 5¼ inch Circle; Complete with 4 Punches; Sizes ⅛, 3-16, ¼ and 5-16 inch; Weight Each 100 lbs. **$48.00**

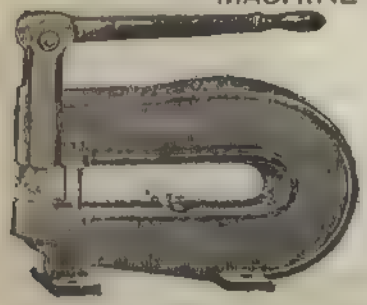
✣ **No. 2**—5½ inch Cut; will Punch 3-16 inch Iron and to the Center of a 6½ inch Circle; Complete with Five Punches, Sizes ⅛, 3-16, ¼, 5-16 and ⅜ in.; Wt. Each 120 lbs. **60.00**

✣ EXTRA PARTS

For Machine, Nos.	1 Each	2 Each
✣ Bed, Complete (Drilled and Fitted)	$20.00	$24.00
✣ Die Holders	2.40	2.40
✣ Extra Punches	1.20	1.20
✣ Extra Dies	2.40	2.40

Loose

MACHINE PUNCHES



IMPROVED SAMPSON

With Adjustable Gauge

Made of Cast Iron; with Wrought Iron Links; Fastened to Bench with Bolts; when Large Sheets are to be Punched the Stay Bolts are Removed.

Each

No. 5—Depth of Gap 15 inches; will Punch No. 9 Iron and to the Center of 7 inch Sheets, when Stay Bolts are in Place; will Punch No. 12 Iron and to the Center of 30 inch Sheets with Stay Bolts Removed; Complete with 3 Sets of Dies and Punches, Sizes ⅛, 3-16 and ¼ inch; Weight 95 lbs. **$60.00**

✣ EXTRA PARTS

Each

Bed, Complete, Drilled and Fitted; Wt. Each 120 lbs. **$24.00**
Punches, ⅛, 3-16 or ¼ inch; Weight Each 3 ozs. **1.20**
Dies; Weight Each 5 ozs. **2.40**

Loose

TINNERS TOOLS

COMBINED SHEARS AND PUNCH

SAMPSON

The Extra Heavy Punch Supplies a Demand for which we have had Many Inquiries. We Guarantee it to do Work as Represented and its Capacity is Not Overstated. Will Cut Bar Iron ¼x1½, ⅜x¾, ½ inch Square and Punch Center of Circles 10 inches in Diameter.

Each

✣ **No. 3—Shear and Punch;** 6 inch Cut. Will Punch ⅜ inch Iron, and will Cut No. 8 Sheet Iron Lengthwise or Crosswise. Complete with Three Punches and Dies, Size ¼, 5/16 and ⅜ inch; Also Furnished with Lever for each End. Weight 400 lbs. **$200.00**

✣ EXTRA PARTS

Each

✣ Bed, Complete (Drilled and Fitted) For No. 3 ..... **$70.00**
✣ Punches, ¼, 5/16 or ⅜ inch **2.40**
✣ Dies, ¼, 5/16 or ⅜ inch **2.50**

Loose

IMPROVED LEVERS

PECK, STOW & WILCOX

This is a Portable Punch Combining Light Weight with Strength, and will be Found Very Handy and Useful; it Works Easily and Rapidly, and Both the Back and Side Gauges are Easily Adjusted; Adapted to Metals up to 20 Gauge.

Each

No. 10—Depth of Gap 1¼ inches; Complete with One Die and Three Punches, Sizes, ⅛, 3/16 and ¼ inch; Weight Each 10 lbs. **$16.00**

Loose

MACHINE STANDARDS

PECK, STOW & WILCOX

For Small Machines

Each

No. SMS—Small Plain; for all Except Wiring Machines; Weight Each 11 lbs. **$3.20**

Loose

For Wiring Machines

Each

No. WMS—With Horn; for Wiring Machines; Weight Each 11½ lbs. **$3.20**

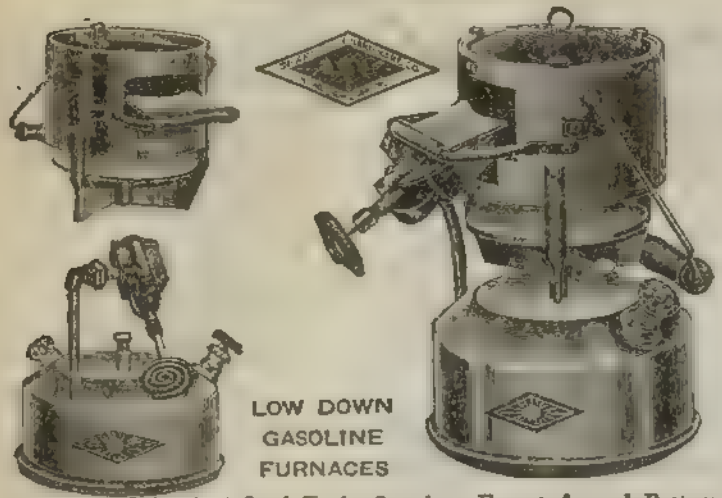
Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory.

SOLDERING FURNACES

GASOLINE

★NORLEIGH DIAMOND



LOW DOWN GASOLINE FURNACES

Heavy Galvanized Steel Tank, Seamless, Except Around Bottom which is Strongly Soldered and Protected by Malleable Iron Ring; Never Leak Brass Pump, with Cork Check and Positive Closing Needle Valve; Intensely Hot Flame, Free from Smoke, will Quickly Heat Heavy Irons and a Pot of Metal at the Same Time; The Top Section May be Removed, and the Open Flame Used as a Torch for Brazing, Melting Out Lead Joints, Thawing Frozen Pipe, etc.

Each

No. NDF5—Capacity 5 pints; Height 12 inches; Diameter of Base 8½ inches; Weight Each 12½ lbs $13 50

No. NDF7—Capacity 7 pints; Height 12½ inches; Diameter of Base 10 inches; Weight Each 16½ lbs..... 17.70

One in a Wood Box

CLAYTON & LAMBERT

Heavy Galvanized Iron Tank and Round Top Section; Brass Fittings; Flames are Protected by a Galvanized Hood with Cover; Automatic Brass Pump in Tank; will Heat a Pot of Lead and a Pair of 12 lb. Coppers at the same time; Smokeless, Odorless and Noiseless

Each

No. 71—Capacity Seven Pints; Weight each 15 lbs..... $17.70

No. 72—Capacity Five Pints; Weight each 15 lbs..... 13.50

One in a Wood Box

GEM

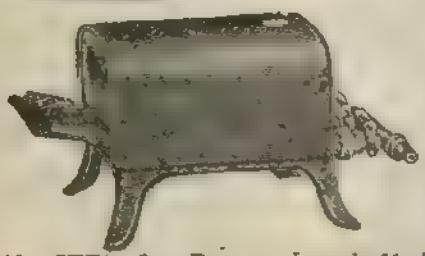
The Heat is Distributed the Full Length of Coppers by a 4 inch Burner; Gas is Generated Without Smoke or Odor; will Take all Sizes of Coppers; Copper Rest Plate is but 5 inches from Workmans Bench.

Each

No. GMF—Capacity 3 Qts; Galvanized Steel Reservoir, with Regulating Valve; 21x7 inch Sheet Steel Base, Black Enameled; Improved Slotted Cast Iron Burner; Height Over All 14½ inches; Weight Each 20 lbs. $16.00

One in a Crate

GAS



Consumes About 8 Feet of Gas per Hour; Cast Iron Base and Burner; Polished Steel Top; Brick Lined; Burners are Drilled, and are Operated with Stop Cock and Adjustable Air Mixer; Very Economical.

Each

No. GTF1—One Burner; Length 11 inches; Width 5 inches; Height 7 inches; Weight Each 9 lbs $5.00

No. GTF2—Two Burners; Length 11½ Inches; Width 8½ Inches; Height 7 inches; Weight Each 12 lbs 6.00

One in a Box.

FIRE POTS

GASOLINE

★NORLEIGH DIAMOND

No. NDFC

No. NDFB

With Pump

Each

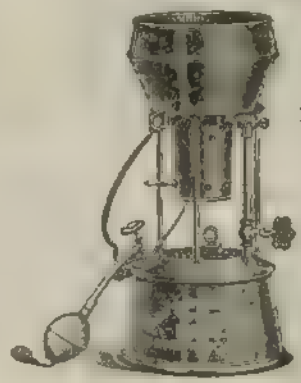
No. NDFC—Capacity 1 Gallon; Heavy Galvanized Steel Tank; Cast Iron Metal Pot and Combination Shield for Holding Metal Pot and Soldering Irons; Never Leak Pump, with Needle Valve; Brass Nuts, Plug and Fittings; Extra Heavy Pipe Coils; Height 20 inches; Diameter of Base 8½ inches; Weight Each 19 lbs..... $11 88

With Bulb

Each

No. NDFB—Capacity 1 Gallon; Heavy Galvanized Steel Tank; Removable Hood; Brass Nuts, Plug and Fittings; Extra Heavy Pipe Coils; Height 17 inches; Diameter of Base 8½ inches; this is a Good General Purpose Furnace and will Give Good Satisfaction; Weight Each 14 lbs..... $8 40

One in a Wood Box



CLAYTON & LAMBERT

Each

No. 10—Capacity One Gallon; Heavy Galvanized Iron Tank fitted with Galvanized Cast Iron Top Plate and Bottom Ring; Brass Nut Plug and Fittings; Cast Steel Burner; Extra Heavy Pipe Coils; Needle Point Valves fitted with Stuffing Boxes are always Tight and give the user Perfect Control of the Fire; Weight each 13 lbs..... $8 40

One in a Wood Box

TINNERS STOVES

For Charcoal

The Fire Pot is Constructed so that the Ashes Fall into a Pan Beneath the Coal, Keeping the Fire Clear and the Draft Good; Light and Easy to Carry.

Each

No. P2—Sheet Iron Body, Japanned; Cast Iron Base, Top, Legs and Door; Heavy Wrought Iron Bail; Height 15¼ inches; Diameter 8 inches; Weight per Dozen 180 lbs..... $5.50

Loose

CRIMPING AND BEADING MACHINES.

An excellent machine for crimping or beading stove pipe, elbows, etc. The construction throughout is excellently strong and rigid and permits of easy and rapid adjustment. Depression of rolls is accomplished by a foot treadle. Adjustment of lever is effected by an eccentric devise and is handy and practical for instantaneous action; crank is adjustable to suit heavy or light work.

With Standard.

Each

No. 602—Crimping and Beading Machine; capacity, 24 gauge iron or lighter; shipping weight, 38 lbs. . . . $30.00

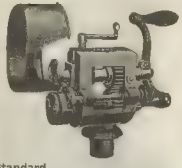
F. O. B. Southington, Conn.

ELBOW EDGING MACHINES.

COLUMBIAN.

Will produce accurate and perfect edges in general elbow work.

Rolls are of a diameter to allow fast travel and finish an elbow edge of large size in less time than it takes with rolls of smaller diameter.



With Standard.

Each

***No. 551—Elbow Edging Machine;** capacity, 24 gauge iron or lighter; diameter rolls, 2¼ inches; weight, 25 lbs. $26.35

F. O. B. Southington, Conn.

BURRING MACHINES.

COLUMBIAN.

With extra Upper Roll.

A solid frame machine of improved design, well known for its ease and accuracy of operation. Rolls are forged from a special high grade material giving excellent wearing qualities to file edge necessary to produce uniform flange.

With Standard.

Each

No. 576—Burring Machine; capacity, 22 gauge iron and lighter; diameter rolls, 1½ inches; widest flange that can be turned, 1⅛ inches; weight, 21 lbs. $20.00

No. 577—Burring Machine; capacity, 22 gauge iron and lighter; diameter rolls, 2½ inches; widest flange that can be turned, 2⅛ inches; weight, 25 lbs. 21 05

ENCASED BURRING MACHINES.

For creasing or edging rims of pails, covers, etc. Encased pattern machines are of a type that insure ease of operation and insure well finished work. Capacity, 24 gauge iron and lighter.

Nos.	Without Standard. 579½	580½	With Standard. 579	580
Size	Small	Large	Small	Large
Diam. rolls, inches	1½	2⅛	1⅛	2⅛
Width flange, inches	7/16	⅝	⅜	½
Weight, lbs.	10	12	21	23
Each	$29.25	30 30	30.55	31.60

TURNING MACHINES.

COLUMBIAN.

With Extra Upper and Lower Faces.

A solid open frame machine used for preparing work for wiring, etc. Made from high grade material, insuring excellent wearing qualities. Capacity, 22 gauge iron or lighter.

Nos.	With Standard. 541	542
Diam. rolls, inches	2½	3
Diam. wire small, inches	3 32	⅛
Diam. wire large, inches	⅛	5 14
Weight, lbs.	25	34
Each	$23 15	25 30

ENCASED TURNING MACHINES.

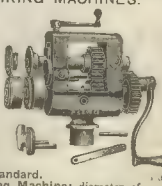
With Extra Pair of Thick Turning Rolls.

Encased pattern machines, designed for most exacting user. Intended for preparing vessels or other work for wiring. A light easy operating machine made from highest grade materials. Capacity, 24 gauge iron and lighter.

Nos.	Without Standard. 545½	546½	With Standard. 545	546
Size	Small	Large	Small	Large
Diam. rolls, inches	2½	3	2⅛	3
Weight, lbs.	12	17	23	28
Each	$32.40	34.50	33.70	35 80

TURNING AND WIRING MACHINES.

Made from heavy patterns and with proper rolls and gauge they are suited for a variety of operations; have machine cut steel connecting gears and solid cast iron drive gears. Capacity 18 gauge iron and lighter.



With Standard.

Each

No. 547—Turning and Wiring Machine; diameter of rolls, 3¼ inches; smallest diameter of wire used, 1/16 inch; largest diameter of wire, ⅛ inch; weight, 115 lbs. $57 90

Per Pair

Extra Wiring Face $8 05

Extra Burring Face 8 95

*F. O. B. Southington, Conn.

TOOLS REQUIRED TO MAKE STOVE PIPE.

No. 1 Hand Groover.
No. 4 Rivet Set.
No. 7 Solid Punch
No. 642 Riveting Hammer.
No. 7 Tinners' Mallet.
One (1 lb.) Black Rivets.
Stove Pipe Forming Machine.
Stove Pipe Crimper and Beader.
Sheet Iron Folder.
Hollow Mandrel.
Bench Shear or Hand Snip.
Circular Hand Shear.

SQUARE PIPE CRIMPERS.

A handy tool; contracts or crimps the corners in square pipe. Makes the assembling of square pipe joints a quick and easy operation. Produces tight fitting joints.

Made from good grade steel, black finished.

Per Pair

No. 787—Square Pipe Crimpers; length overall, 11 inches; shipping weight per pair, 2 lbs. $0.90

One pair in a package.

CRIMPING TONGS.

Each

Packham's Patent—Weight, 3 pounds $1.20

STOVE PIPE FORMERS.

An excellent former for general use; rolls are well finished, free from imperfections, and are special hard steel; square hole crank allows working in either direction.

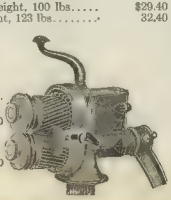
Each

No. 357—Rolls, 31x2 inches; weight, 140 lbs. $27.00
No. 358—Rolls, 31x1¾ inches; weight, 120 lbs. 25.40

With Patent Compensating Gear.

No. 374—Rolls, 30x1¾ inches; weight, 100 lbs. $29.40
No. 373—Rolls, 30x2 inches; weight, 123 lbs. 32.40

CRIMPING MACHINES.



Each.

Packham's Patent — Without stand; weight, 13 lbs. .$11.00

Packham's Patent — With stand; weight, 18 pounds.. 14.00

BEADING MACHINES.

STOW'S PATENT.

Capacity, 26 gauge iron and lighter. Have reinforced frames and caps; guaranteed to bead accurately and to their full rated capacity. Made from highest grade materials; top castings are japanned, balance is full polished.

With Standard.

Each

No. 620—Depth to gauge 5⅛ inch. Furnished with 4 pairs rolls (¾ ogee, ⅝ triple, ⅛ single, ½ triple coffee pot); weight, 50 lbs. $36.85

No. 621—Depth to gauge 4 inch; 5 pair rolls (⅛ ogee, ⅝ triple, ⅛ single, ½ double, astragal); weight, 40 lbs. 31.60

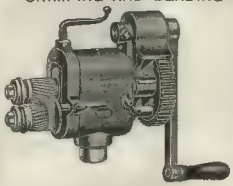
Capacity, 20 gauge iron and lighter. These machines are carefully made. Caps and frames are reinforced for maximum strength. Made from highest grade materials; well finished; top castings are japanned finish, balance of machine full polished.

Each

No. 617—Depth to gauge 12 inch; 3 pair rolls (1 inch ogee, ⅝ single, 1 inch triple); with wedge bench standard; weight, 140 lbs. $57.90

No. 619—7½ inch; 3 pair rolls (⅞ ogee, ⅛ triple, ⅛ single); with wedge bench standard; weight, 85 lbs. 47.40

CRIMPING AND BEADING MACHINES.

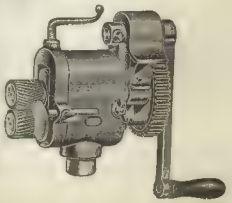


For producing a neat uniform pipe crimp or bead, will give maximum strength and can be depended upon to produce snug fitting pipe joints that will hold when put together. Capacity 20 gauge iron and lighter.

With Standard.

Each

No. 585—Crimping Machine; width crimp rolls, 1¾ inches; width bead rolls, 1 inch; weight each, 65 lbs. ..$31.60



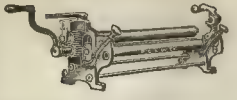
For crimping extra long length stove pipe. These machines produce a crimp or bead that prevent pipe from sagging at the joints when hung, the extra wide distance between the edge crimp and bead makes the length of pipe exceedingly stiff at joints and easy to put together. Capacity 20 gauge iron and lighter.

With Standard.

Each

No. 591—Crimping Machine; width of crimp rolls, 1¾ inches; width of bead rolls, 1 inch; weight each, 63 lbs. $31.60

FORMING MACHINES.

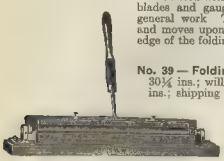


A stove pipe and tin pipe former of slip roll pattern; machine is easily set and ready for use in a very short time. Rolls are made from special rolled hard steel; forms and bearings are selected tough mixture iron.

Each

No. 382—Forming Machine; length of rolls, 31 inches; diameter of rolls, 2 inches; weight, 180 lbs. $37.05

SHEET IRON FOLDERS.



Are fitted with machined steel bending blades and gauges and constructed for general work The gauge is adjustable and moves upon a line parallel with the edge of the folding blade.

Each

No. 39 — Folding Machine; length, 30¼ ins.; will form locks ⅛ to ⅛ ins.; shipping weight, 75 lbs...$28.00

WRIGHT'S.

Each

No. 1—Wright's Patent Folding Machine; for 22 gauge iron and lighter; length, 30½ inches; will form locks ¼ and ⅛ inches; shipping weight, 85 lbs $31.60

Extra Plate—For No. 1 folder..... 4.00

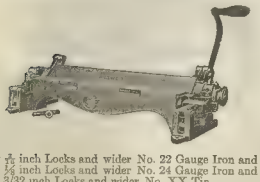
CHAMPION.

Each

No. 11—Champion Folding Machine; for 22 gauge iron and lighter; length, 32 inches; will form locks ⅛ to ⅛ inches; shipping weight, 110 lbs.....$36 85

Not in stock at present.

FOLDING MACHINES.



Capacity ⅛ inch Locks and wider No. 22 Gauge Iron and Lighter. Capacity ⅛ inch Locks and wider No. 24 Gauge Iron and Lighter Capacity 3/32 inch Locks and wider No. XX Tin.

Each

No. 62—Stow's patent, 20¾ inches, will turn locks from ⅛ to 1 inch, weight 80 pounds $63.15

No. 63—Stow's patent, 30 inches, will turn locks from ⅛ to 1 inch, weight 155 pounds..... 78.95

AUTO BRAKE BAND LINING CUTTER.

Capacity ¾-inch and lighter brake band lining.

Each

No. 252C — Auto Brake Band Lining Cutter; length of blade, 3½ inches; length of bed, 10½ inches; height of bed, 6½ inches; length over all, 18 inches; shipping weight, 17 lbs.....$16.50

LEVER SHEARS.

Each

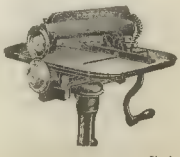
No. 253—Lever Shears; capacity, 3/32 inch and lighter; iron or steel, otherwise same as No. 252C Auto Brake Band Lining Cutter.....$16.50

SLITTING SHEARS.

Permits the most rapid means for slitting iron used in cornice, furnace, ventilation work, etc. They may be utilized for conveniently cutting irregular curves and circles when following a scribed line in a fraction of the time it takes to do the work with snips or bench shears. The cutters are forged from a special high grade tool steel, properly hardened and tempered and have two cutting edges making them reversible. The crank is adjustable to different leverages, bearings are adjustable to take up wear of the cutters and the cutting head of compact construction is mounted on heavy, cast iron legs.

Each

No. 255—Slitting Shears; diameter of cutter, 3½ inches; depth, cutting head to gauge, 18 inches; depth, cutting head to frame, 19 inches; size of table, 20x8 inches; capacity, 16 gauge or lighter; shipping weight each, 325 lbs..$90.00



A rotary slitting shear of merit, so designed that frame is exceedingly solid; cutting knives are made from best iron with high grade tool steel welded to the cutting edges properly hardened and tempered. Capacity, 20 gauge iron or lighter.

Each

No. 250—Slitting Shears; diameter of cutter, 3½ inches; depth of cutting head to gauge, 9 ins.; narrowest strip that can be cut, ½ inch; shipping weight, 100 lbs .. $55 00

WIRING MACHINES.

Solid frame wiring machines, used for rolling sheet metal compactly around wire after it has been prepared by turning machine. Made from highest grade materials insuring long service Capacity, 22 gauge iron or lighter.

With Standard. Each

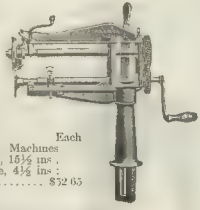
No. 525 –Wiring Machine; with standard; diam. rolls, 3 inches; will receive wire up to ⅜ inches in diam.; weight each, 31 lbs..... $26 35

ENCASED WIRING MACHINES.

Encased machines are most practical and efficient for general use. Used for rolling sheet metal compactly around wire after it is prepared by turning machine. A very efficient machine for light work. Capacity, 24 gauge iron or lighter.

	Without Standard	With Standard
Nos.	526½	526
Diam rolls, inches	3	3
Diam wire, inches	⅜	⅜
Weight each, lbs	17	28
Each	$35.55	36.85

DOUBLE SEAMING MACHINES.



Adapted for general use. The size of the lower face determines the smallest size bottom that can be double seamed. With these machines extra discs are not required. Capacity, 26 gauge iron and lighter.

Each

***No. 644**—Double Seaming Machines will receive work in depth, 15½ ins.; size of lower seaming face, 4½ ins.; shipping weight, 100 lbs..... $52 65

SETTING DOWN MACHINE.

Setting down machines are used for closing down corresponding edges tight for double seaming. A high grade machine for general use. Capacity, 24 gauge iron and lighter

Each

No. 555—With Standard; For seams up to ⅛ inch; weight each, 21 lbs. $23.15

The improvements on this machine adapts it for setting down seams of different shaped vessels to a better advantage than any other design.

Inclined position of both upper and lower faces allows work to be held up or down and seams to be started inward while setting down, facilitating the operation of double seaming.

Capacity 24 gauge iron and lighter.

Each

No. 561—Setting Down Machine; equipped with adjustable gauge up to ⅜ inch; weight packed, 34 lbs. $31 60

No. 561S—Setting Down Machine; same as No. 561, but with bench standard; weight packed, 46 lbs.... 34 25

MACHINE STANDARDS.

No. 975.

REGULAR OFFSET.

Each

No. 975—Standard; size of hole, 1⅝ inch; height overall, 9¾ inches; shipping weight, 10½ lbs..... $2.65

WIRING OFFSET.

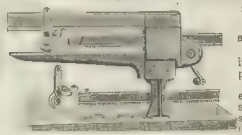
Each

No. 976—Standard; size of hole, 1⅝ inch; height overall, 9¾ inches; shipping weight, 11 lbs..... $2.65

No. 976.

GROOVING MACHINES.

STOW'S PATENT.



Capacity 24 gauge and lighter.

Serviceable for grooving seams on tin cans, pails, boilers, etc.

They are easy to operate and simple in construction. Made with steel bar and milled groove. Size of grooving horn, large end 3 inches, small end 1⅝ inches.

Each

No. 502—Grooving Machine—Furnished with three grooving rolls ⅛, 5/32, 7/32 ins.; will groove work 20 inches long; weight each, 102 lbs..... $31.60

GRANNIS' PATENT.

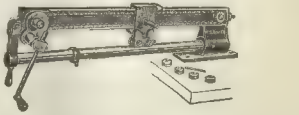
Fitted with square horn for grooving seams in square box pipe, etc Have patent devise which flattens and grooves seams of cylinder in one operation.

With Standard.

Each

No. 505 Grooving Machine—Grooves work 30 ins. long; 5/32, ⅛, ⅜ inch grooving rolls and one flattening roll; capacity 22 ga. iron and lighter; weight, each 100 lbs..... $52 90

***No. 507 Grooving Machine**—Grooves work 40 ins. long; ¾, 5/32, ⅛ ins. grooving rolls and one flattening roll; capacity 24 gauge iron and lighter; weight, each 105 lbs. 57.90



A machine adapted for grooving the longitudinal seams in stove pipe and other sheet metal cylinders. It is very rapid and permits operator standing in front of machine to insert and remove work without changing his position. Capacity, 24 gauge iron or lighter.

Each

No. 518—Grooving Machine; will groove work 30 inches in length; diameter smallest pipe that can be grooved, 2 inches; weight each, 200 lbs..... $60.00

Note—Six Rolls are furnished, one each with 3/16, 7/16 and 15/32 inch grooves, two with 5/16 inch grooves and one flattening roll.

*F. O. B. Southington, Conn.

POCKET SEAMERS.

HANDY.

A handy pocket seamer. It is adjustable for seams of different widths. Can easily be carried in pocket or tool kit. Has black finish handles, steel blades

Per Pair

No. 791—Pocket Seamers; length over all, 7¼x3½ inches; size of blades, ⅜x3½ inches, adjustable for seams ⅛ to ⅜ inches; weight per pair, 1 lb. $1.04

ROOFING DOUBLE SEAMERS.

A double seamer for tin roofing. Will do the work evenly and leaves the formed lock of uniform height. Works well over uneven roof boarding and will double seam hips and ridges with ease.

Per Set

No. 742—Roofing Double Seamers; fitted for IC tin; follows 1 and 1¼-inch tongs; finishes a lock ¾-inch high; length over all, 30 inches; width, 14 inches; weight per set of two pairs, 40 lbs. $21 20

No. 742½—Roofing Double Seamers; fitted for IC tin; follows 1¼ and 1½-inch tongs; finishes a lock 1-inch high; length over all, 14 inches; width, 30 inches; weight per set of two pairs, 40 lbs. 21 20

ROOFING TONGS.

These tongs are used for drawing together two layers of tin before clearing. Made from japanned malleable iron with steel clamps.

Per Set

No. 770¾—Roofing Tongs; will turn ¾-inch lock; length over all, 21 inches; size of blade, 1¼x18½ inches; weight per pair, 8 lbs. $4.25

No. 771—Roofing Tongs; will turn 1 inch lock; length over-all, 21 inches; size of blade, 1⅜x18½ inches; weight per pair, 8 lbs. $4.25

No. 771¼—Roofing Tongs; will turn 1¼ inch lock; length over all, 21 inches; sizes of blade, 1¾x18½ inches; weight per pair, 9 lbs. 4.25

No. 773—Roofing Tongs; adjustable; will turn ⅛, ¾, 1, 1¼ and 1½ inch lock; length over all, 21 inches; size of blade, 2x18½ inches; weight per pair, 9½ lbs. 5.80

No. 773 not in stock at present.

GUTTER TONGS.

Each

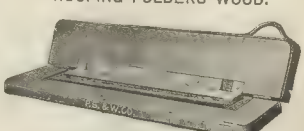
No. 777—Gutter Tongs; depth of jaws, 14 inches; length handles, 24½ inches; width of blades, 1¾ inches; length of blades, 12½ inches; weight each, 10 lbs. $5.80

COMBINATION TONGS.

Each

Roofing Tongs—For edging and squeezing $2.00

ROOFING FOLDERS—WOOD.



Each

No. 33C—Common Roof Folders; length, 30 inches; will form locks ⅞ inches; weight, 14 lbs. $4.50

WITH GAUGE.

Each

No. 113—Improved Roof Folders; length, 20 inches; will form locks ⅞ and ⅜ inches; weight, 10 lbs. $5.80

No. 123—Improved Roof Folders; length, 30 inches; will form locks ⅞ and ⅜ inches; weight, 17 lbs. 6.85

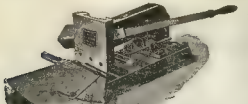
BENCH PLATES.

Each

No. 981—Bench Plate; cast iron, polished; length, 37½ inches; width, 8 inches; weight, 46 lbs. $9.50

No. 982—Bench Plate; cast iron, polished; length, 30 inches; width, 8 inches; weight, 31 lbs. 7.65

SLITTING SHEARS.



A practical shear for range manufacturers, car shops, automobile plants or where a variety of straight and irregular cutting is done. Lower blades are stationary so that when cutting to line, mark may easily be followed with accuracy. Blades made from best iron with a high grade tool steel welded to the cutting edges properly hardened and tempered.

Each

No. 248—Slitting Shears; length cutting blades, 6½ inches; depth cutting head to gauge, 9½ inches; depth cutting head to frame, 10 inches; size of table, 12x15 inches; shipping weight, 165 lbs..... $75.00

SCROLL SHEARS.

Will cut circles, ovals, ogees and all irregular shapes with the greatest ease. They are well adapted for cutting from the center of a sheet.

Mounted in a standard which screws to the bench and adjustable to any angle required

The length of cut is regulated by means of a set screw in frame back of lower blade. To shorten cut, turn screw in; to lengthen cut, turn screw out. Upper blade can be adjusted for wear by means of the two rear adjusting screws. Capacity, 20 gauge iron or lighter.

Each

No. 269 – Scroll Shears; length of cutting blade, 4¼ inches; depth of cutting head to gauge, 17 inches; depth of cutting head to frame, 18¼ inches; capacity, No. 20 gauge iron and lighter; shipping weight each, 155 lbs...$61.00

RING AND CIRCULAR SHEARS.

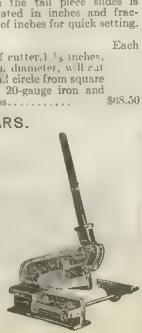
Intended for cutting circles or internal rings and irregular curves. Permits for the clamping and removing of blanks with great rapidity. The bed on which the tail piece slides is graduated in inches and fractions of inches for quick setting.

Each

No. 298 — Circular Shear; diameter of cutter, 1⅜ inches, will cut rings small as ⅜ inches in diameter, will cut rings large as 22 ins. in diameter, will circle from square blanks 3¼ to 22 inches; capacity 20-gauge iron and lighter; shipping weight each, 195 lbs..... $68.50

LEVER SHEARS.

For slitting sheet iron in any length or width as well as for cutting narrow iron bars. Patterned to allow sheets to pass freely and proportioned to obtain great strength and durability. Blades are made of high grade materials ground to true cutting edge.



Each

No. 0296—Lever Shears; length of cutting blade, 8 inches; length gauge rod, 22 inches; capacity, 10 gauge iron or lighter; will cut iron bars ⅜ inch square and ¼x½ inch; shipping weight each, 130 lbs..... $70 00

SQUARING SHEARS.

Designed for cornice work, but are equally valuable in other lines where foot power shears of great capacity are required.

Fitted with arched automatic hold down attachment which makes visible a line drawn on metal for cutting accurately. Also have weight balanced foot treadle insuring ease to operator.

Capacity, 18 gauge iron or lighter.

Each

***No. 190—Squaring Shears;** length cutting blade, 73 ins.; length of front arm, 22 inches; length of rear gauge arm, 25 inches; length of rear gauge, 70 inches; narrowest strip that can be cut, ¾ inches; width of bed plate, 18 inches; shipping weight complete, 2,100 lbs.....$365.00

***No. 191—Squaring Shears;** length cutting blade, 97 inches; length of front arm, 22 inches; length of rear gauge arm, 25 inches; length of rear gauge, 94 inches; narrowest strip that can be cut, ¾ inches; width of bed plate, 18 inches; shipping weight complete, 2,900 lbs..... 485.00

P. S. & W. ACME.

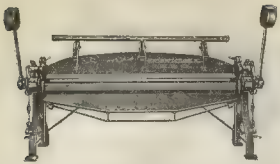
Designed for cutting metal also for special work such as cutting leather, cloth, paper, rubber, etc. Furnished with wood top shelf and complete gauge equipment. Iron cutting capacity, 18 gauge and lighter.

Each

No. 179—Squaring Shear; length, cutting blade, 31 ins.; width, bed plate, 13 ins.; approximate shipping weight 425 lbs.....$95.00

*F. O. B. Southington, Conn.

CORNICE BRAKES.



Hares patent cornice brakes are recognized by large sheet metal workers and railroad companies as being of superior quality.

They will form long sections easily and quickly and are well adapted for forming gutters, cornice work, valleys, etc.

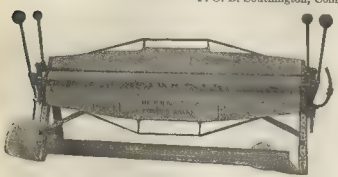
The bending leaf is properly balanced by weights and is provided with a forcing bar for bending heavy iron

Capacity, 18 gauge iron or lighter.

Each

*No. 683—**Cornice Brake;** length, 52 inches; clamping jaws open, 1 inch; shipping weight crated, 1070 lbs. . . $220.00

F. O. B. Southington, Conn.



F. O. B Buffalo, N. Y

STANDARD DOUBLE TRUSS.

This machine will bend or form sheet metal to almost any angle or curve or any combination of angles or curves, at any distance from the edge, either lengthways or crossways. Will bend No. 22 sheet metal and lighter the full length of machine.

Each brake is supplied with six half-round formers ⅞ to 2½ inches in diameter, with the necessary friction clamps to hold same in place, for forming circular bends.

* Nos.	3	4	5
Length of bending edge, feet	3 1/12	4 1/12	5 1/12
Weight on skids, pounds	250	300	525
Each	$58.00	68.00	85.00

* Nos.	6	8	10
Length of bending edge, feet	6 1/12	8 1/12	10 1/12
Weight on skids, pounds	680	875	1300
Each	$105.00	125.00	175.00

EXTRA STRONG DOUBLE TRUSS.

F. O. B. Buffalo, N. Y.

Same machine as Standard, but much stronger and will bend No. 16 sheet metal and lighter full length of machine.

Nos.	14	15	16	18
Length of bending edge, ft.	4 1/12	5 1/12	6 1/12	8 1/12
Weight on skids, lbs.	475	620	760	1035
Each	$80 00	95.00	115.00	145.00

*F. O. B. Factory

COMBINATION BRAKE AND FOLDER.

The construction of this machine is of all iron with steel bending blades and allows for easy and accurate formation of wide angles and narrow locks within the rated capacity without danger of springing.

Adjustments are provided for in the eccentric constructions allowing for a maximum pressure to bear on the work while in the process of forming, preventing the work slipping from a true line

Capacity, 16 gauge iron and lighter.

	Inches.
Will form open or closed locks in width	⅛ to 1¾
Will form open or closed locks in width	½ to 1¾ on 16 gauge iron
Will form open or closed locks in width	1/16 to ⅝ on 18 gauge iron
Will form open or closed locks in width	¼ on 20 gauge iron
Will form open or closed locks in width	1/16 on 22 gauge iron
Will form open or closed locks in width	⅛ on 24 gauge iron

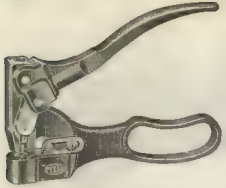
Each

*No. 93—**Combination Brake and Folder;** length, 42 inches; clamping jaws open, 1¾ inches; shipping weight crated, 950 lbs. $250.00

F. O. B Southington, Conn.

Note—Furnished with seven Formers for making circular and semi-circular bends in cornice work, etc.; viz, 3, 2½, 2, 1¾, 1½, 1¼ and 1 inch. When machine is used for 16 gauge iron two men are required to operate the machine with greater ease.

HAND PUNCHES.



Furnished with 3 sets of dies and punches, viz. ⅛, 3/16 and ¼ inch. Toggle movement works easily and rapidly. Can be carried in pocket or kit. A useful tool for outside work.

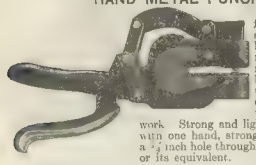
Black japanned finished.

Capacity No. 20 gauge iron and lighter.

Each

No. 790—Hand Punches; depth of throat, 1 inch; height, 4 inches; length, 7½ inches; weight each, 2½ lbs. $3 55
One pair in a box.

HAND METAL PUNCH



The most powerful punch of its size made. Used by steel and sheet metal workers in machine shops, blacksmith shops, tin shops and for out-door construction and for repair work. Strong and light, easily operated with one hand, strong enough to punch a ⅛ inch hole through No. 20 gauge iron, or its equivalent.

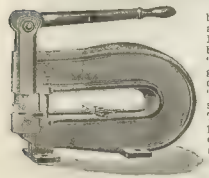
Each

No. H3—Ha Metal Punch; complete with 1 punch and die, 3/16 inch; will punch center of 3½ inches' length extreme points, 9½ inches; weight each 4½ lbs $3 75

Each

***Extra Punches**—Sizes, ⅛ and ¼ inch; punch and die $0.60
Other sizes made to order. 75
*F. O. B. factory, Rockford, Ill.

SAMSON PUNCH.

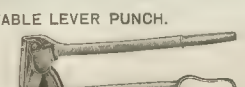


Improved Samson Punch, bolt fastened, with adjustable gauge. Will punch No. 9 iron with "stay bolts" and No. 12 without "stay bolts." Depth of gap, 15 inches; will center on 30-inch sheets without "stay bolts" and on 7-inch sheets with "stay bolts." Three sets of dies and punches accompanying each machine, viz.: ⅛, 3/16 and ¼ inch.

Each

No. 675—Improved Samson Punch; weight each, 140 lbs. $42.00

PORTABLE LEVER PUNCH.



Has a very powerful toggle movement and works easily and rapidly. The gauges, both back and side, are easily adjusted. One die and three punches accompany each machine. Can be used on No. 20 gauge material. Each

No. 780—Portable Punch; complete with one die and three punches as follows: ⅛, 3/16 and ¼ inch; wgt each, 8½ lbs. $10.00

SHEAR AND PUNCH.
COMBINATION.

Suitable for both cutting and punching metal. Will cut ⅛ in. iron and 3/16 and ¼ in. narrow bars. Will punch the centre of a circle 5½ inches.

Each

No. 679—Shear and Punch; 5½ inch shear; 5½ inch throat; 5½ inch cut, complete with 5 punches as follows: ⅛, 5/32, ⅙, 3/16 and ¼ inch; weight each, 120 lbs. $42 00

METAL PUNCH.
MARVEL.

A powerful well made tool. Punches sheet metal bars, augers, circles, etc. Will punch a ⅜ inch hole. Can be clamped to bench vise. Made entirely of steel, black finish.

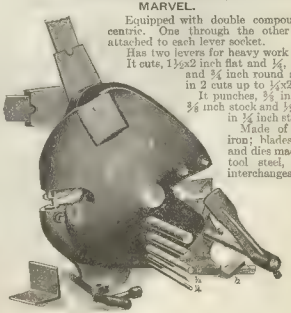
Net at list F. O. B. Chicago.
Enter on Separate Sheet.

Each

No. 20M—Capacity, ¼ inch hole in ¼ inch stock; depth of throat, 2 inches; length over all, 38 inches; shipping weight, 16 lbs; complete with one punch and die $7.00

When not otherwise specified, ¼ inch punch and die is sent with each No. 20M Punch.

COMBINED SHEAR PUNCH AND ROD CUTTERS.
MARVEL.



Equipped with double compound or eccentric. One through the other and one attached to each lever socket.

Has two levers for heavy work or light. It cuts, 1½x2 inch flat and ¼, 5/16, ⅜ and 3/4 inch round angle iron in 2 cuts up to ¼x2x2 inches.

It punches, 3/4 inch hole in 5/8 inch stock and ½ inch hole in ¼ inch stock.

Made of malleable iron; blades, punches and dies mad of best tool steel, all parts interchangeable.

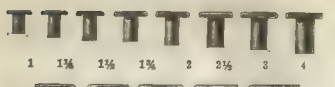
Each.

No. 100M—Throat, 2⅝ in.; shear blades, 3¾ in.; equipped with 2 steel levers, 3 punches, 3 dies and gauge for flat and round shearing; complete with heavy iron legs; shipping weight, 210 lbs. $54.00

*F. O. B. Southington, Conn.

TINNERS' RIVETS.

IN PACKAGES.



BLACK IRON.

Size	8	10	12 oz.	1	1¼	1½	1¾	2
Length, inches	⅛	⅛	⅛	⅛	⅛	⅛	⅛	¼
Wire gauge	14	13	12½	12	11	10½	10	9½
Per thousand	$0.22	.24	.26	.29	.32	.37	.41	.44

Size	2½	3	3½	4	5	6	8	10	12 lbs.
Length, inches	¼	¼	¼	¼	¼	⅜	⅜	7/16	7/16
Wire gauge	9	8½	8½	8	7	6	4	3½	3
Per Thousand	$0.56	.62	.72	.79	1.00	1.12	1.50	1.77	2.06

METALLIC TINNED IRON.

Size	8	10	12 oz.	1	1¼	1½	1¾	2	2½	3
Length, inches	⅛	⅛	⅛	⅛	⅛	⅛	⅛	⅛	⅛	⅛
Wire gauge	14	13	12½	12	11	10½	10	9½	9	8½
Per thousand	$0.31	.35	.39	.47	.54	.66	.72	.79	1.00	1.15

Size	3½	4	5	6	7	8	10	12	14 lbs.
Length, inches	⅛	⅛	⅛	⅛	⅛	⅛	7/16	7/16	½
Wire gauge	8½	8	7	6	5	4	3½	3	3
Per thousand	$1.34	1.49	1.88	2.17	2.54	2.90	3.52	4.16	4.85

One thousand in a package.

TINNERS' BURRS.

METALLIC TINNED IRON.

Nos.	8	9
Per pound	$0.44	.55

No. 8.

No. 9.

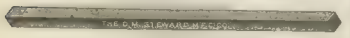
BLACK IRON.

Size, inches	3/16	¼
Per pound	$0.42	.36

One pound in a package.

METAL WORKERS CRAYONS.

For prices of crayons, see Cutlery Section.



Per Gross

No. 710—Square Soapstone, 5x¼x¼ inches, 1 gross in a box $3.00

Per Gross

No. 700—Flat Soapstone, 5x½x¼ inch, paper covered, one gross in a box $5.00

Pyrotalcal—White, 5x½ inch, flat, made of special variety talc; will work on wet or dry, rough or smooth surface, and withstand any degree of heat, not paper covered, not sharpened, one gross in a box 2.40

WIRE GAUGE.

ENGLISH STANDARD.

Each

No. 1—Large, cast steel, Nos. 0 to 36 ..... $3.00

No. 2—Small, cast steel, Nos. 6 to 36 ..... 2.00

CIRCUMFERENCE RULES.

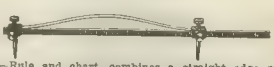
One side circumference rule, opposite side table of measurements, as follows: Liquid, ¼ pint to 5 gallons; dry—flaring ¼ bushel to 2 bushel; cans—pitch top, 1 gallon to 10 gallons; cans—flat top, 1 gallon to 200 gallons; dry—straight, 1 quart to 3 bushels.

Each.

No. 95—Steel, polished, 36 inches long, 1¼ inch wide $4.50

No. 95N—Same as No. 95, but nickel plated 5.00

One in box; weight, 9 pounds.



Each.

Magic—Rule and chart, combines a straight edge and circumference rule and trammel points, nickel plated marked bar 4 feet long, ⅞ inch square $7.50

One in a hinged wooden case; weight, 6½ pounds.

QUICK CLEANER BRUSHES.

PILLEY.

A stiff wire brush for cleaning files, flanges, castings, brasses, etc. Valuable to tinners for cleaning any surface before soldering or for removing rust. Has flat steel wires, cast japanned handle.

Per Dozen

No. P1—Quick Cleaning Brushes; length overall, 6 inches; length of bristles, 1¼ inches; weight per doz. 3¼ lbs. $2.88

One dozen in a wood box.

CIRCULAR SNIPS.
P. S. & W.

Forged from high grade materials, adapted for sheet iron and sheet metal, polished head, japanned handles.

Nos.	7C	8C	9C	10C
Length, ins.	14¼	13½	12	11
Cut, inches	4	3½	3	2⅔
Weight each, pounds	2½	1⅞	1½	1¼
Each	$3.90	3.35	3.05	2.80

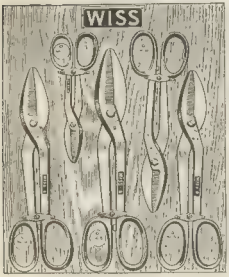
WISS.

Made of tough forged steel; blades faced with best crucible bar steel; edges will stand cutting of heaviest material and will not give at points. Handles are made to fit the hand. Cutting blade polished; handles gun metal finish.

Nos.	8WC	9WC	10WC
Length, inches	13	12	11
Length of cut, inches	3½	3	2¾
Weight each, lbs.	2	1¾	1½
Each	$2.92	2.68	2.45

One in a box.

SNIP BOARD.
WISS.



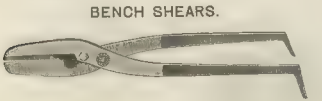
Assortment consists of one each of the following snips. Nos 9, 10, 11 and 12 regular pattern, and No. 100 combination pattern, mounted on an attractive mission finished easel counter display board, with copper name plate "Wiss" at top.

Per Assortment

No. 1—Wiss Snip Assortment; size of board, 14 x16 in.; weight per assortment, 10 lbs. $8.21

One in a bundle, wrapped.

BENCH SHEARS.



Nos.	0B	1B	2B	4B	5B
Cut, inches	10½	9	8⅝	8	7
Length, inches	42½	38½	36	31½	27
Weight each, lbs.	30	25	20	13	8½
Each	$17.25	12.05	10.90	8.95	8.50

One in a package.

DOUBLE CUTTING SHEARS.
BERRIDGE.

WITHOUT CRIMPER ATTACHMENT.

Each.

No. 1DC — Length, 8 inches; intended for cutting tin and other light metals; japanned handles; weight, 12 oz. $2.50

WITH CRIMPER ATTACHMENT.

Each.

No. 2DC — Improved; length, 13½ inches; improved cutting pipe snip with crimper, a superior tool for cutting and crimping pipe and all cylindrical shapes; japanned handles; weight, 2¼ lbs. .....

CUTTING NIPPERS.
NETTLETON'S.

Reversible Jaws.

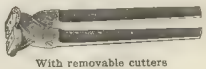
Each jaw has two fine cutting edges. These are held in place by two screws and are consequently easily reversible, adjustable and interchangeable.

Nos.	8N	10N	12N
Cut, inches	1⅝	1½	1⅜
Length, inches	8	10	12
Weight per doz., lbs.	12¾	23	27
Each	$1.75	2.15	2.25

EXTRA CUTTERS.

Extra Cutters, per pair	$0.60	.80	.90

TODD'S.



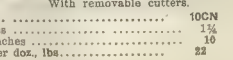
With removable cutters

Nos.	1T	2T	3T
Cut, inches	1¾	1⅝	1½
Length, inches	12	11	10
Weight per doz., lbs.	27	21	18
Each	$2.25	2.00	1.75

EXTRA CUTTERS.

Extra Cutters. Per pair.	$0.65	.60	.60

CAREWS.



With removable cutters.

Nos.	10CN	12CN
Cut, inches	1¼	1⅜
Length, inches	10	12
Weight per doz., lbs.	22	30
Each	$2.85	3.30

EXTRA CUTTERS.

Extra Cutters. Per pair	$0.80	.85

TINNERS' TOOLS.

STAKES.

BEAKHORN.
Cast Iron with Steel Face.

Nos.	901	902	904
Wgt., lbs...	45	40	30
Each...	$25 30	23.70	21.05

BLOWHORN
Cast Iron with Steel Face.

Each

No. 925—Large end 9 inches, small end 18 inches; weight, 19 lbs.....$12.10

DOUBLE SEAMING.
Cast Iron with Steel Face.

Each

No. 921—Large end 17 inches; small end 12 inches; weight, 34 lbs.. $21.05

No. 922—Large end 11 inches; small end 11 inches; weight, 29 lbs . 20 00

ROUND HEAD.
Cast Iron with Polished Face.

Each

No. 965—Round head; length, 16 inches; wgt., 11 lbs..... $3 15

COMMON CREASING.
Cast Iron with Steel Face.

Each

No. 923 Length, 14¼ inches; weight, 12½ lbs..... $13.10

CANDLE MOULD.
Cast Iron with Steel Face.

Each

No. 956—Round end, 18 inches; horn, 8½ ins., wgt., 6½ lbs..... $7.40

HATCHET.
Cast Iron with Steel Face.

Each

No. 942—Blade, 14½ inches; weight, 12 lbs..... $8 45

No. 943—Blade, 13 inches; weight, 9 lbs..... 7.90

No. 944—Blade, 11 inches; weight, 6 lbs..... 7.40

SQUARE HEAD.
Cast Iron with Steel Face.

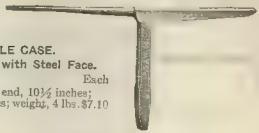
Each

No. 936—Square head, face 2¼x4½ inches; weight 1 lbs..... $6.85

CREASING, WITH HORN.
Cast Iron with Steel Face.

Each

No. 927 Round end, 12 inches; flat end, 6¾ inches; wgt., 12½ lbs $13.70



NEEDLE CASE.
Cast Iron with Steel Face.

Each

No. 957—Round end, 10½ inches; flat end, 8 inches; weight, 4 lbs.$7.10

CONDUCTOR.
Cast Iron with Polished Face.

Each

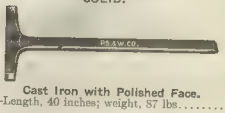
No. 971—Conductor stake, turned; large end, 15 inches; small end, 11½ inches; wgt., 35 lbs.. $8 15

DOUBLE SEAMING.
Cast Iron with Polished Face.

Each

No. 949—Double seaming; with four heads; weight, 85 lbs..$17.40

MANDRELS.
SOLID.



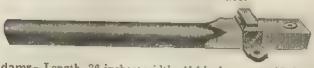
Cast Iron with Polished Face.

Each

No. 960½—Length, 40 inches; weight, 37 lbs.....$11 05

No. 961—Length, 34 inches; weight, 44 lbs..... 10.00

STOVE PIPE.
Cast Iron with Steel Face.



Each

Adams—Length, 36 inches; width, 4½ inches; wgt., 38 lbs.$10.00

HOLLOW.
Cast Iron with Steel Face.

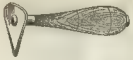
Each

No. 910—Hollow Mandrel; length, 40 inches; weight, 45 lbs... $10.55

Per Set

Extra Nuts and Bolts $0.60

PLUMBERS' SCRAPERS.



A practical scraper for general use, blade is steel, polished finish; handle is natural finish varnished.

Each

No. 11—Plumbers Scrapers; length, 5 inches; weight per dozen, 2 lbs. $0.16

TINNERS' SCRAPERS.

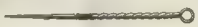
Tinner's roofing or plumber's scraper, forged from highest grade steel and is well tempered.

Each

No. 996—Dimensions, 1⅛x⅝x10 inches; weight per dozen, 4 lbs. $0 25

Six in a carton.

AWLS.



Per Dozen

No. 01—Solid steel; wgt. per dozen, 1 lb. $1.80

One dozen in a box.

RIVET SETS AND HEADERS.

High grade steel, oil tempered, gun metal finish, polished end.

Nos.	0	1	2	3	4	5	6
For iron rivets	10-12	7-8	6	4-5	2½-3	1¾-2	1½
For copper rivets	5	6	7	8	9	10-11	12
Each	$0.55	.46	.46	.38	.38	.29	.29

HAND GROOVERS.

Extra quality steel, drop forged; oil tempered; polished face; natural finished body.

Nos.	00	0	1	2	3	4	5	6
Face, inches	14/16	14/16	14/16	14,16	13/16	13/16	12/16	12/16
Groove, inches	7/16	3/8	5/16	11/32	9/32	7/32	5/32	1/8
Each	$0.86	.86	.78	.78	.74	.74	.74	.74

HOLLOW PUNCHES.

Sizes 1½ inch and smaller are forged steel, large sizes have wrought shank; black finish, polished head.

Per Inch and

Hollow Punches 3/16, ½, 5/8, ¾, ⅞, 1, 1¼, 1½ 1¾, 1⅞ 2 inch $1.12

CENTER PUNCHES.

Octagon shape, solid forged steel, oil tempered, polished head and taper.

Per Dozen

No. 40C—Center Punches; ⅜ inch; length, 4½ inches; weight per dozen, 1¾ lbs. $1.00

SOLID PUNCHES.

Nos.	1	2	3	4	5	6	7	8
Length, ins.	4¾	4¾	4¼	4½	4½	4¼	4½	4½
Diam. face, ins.	.280	.250	.225	.213	.188	.168	.145	.128
Per Dozen	$1.40	1.40	1.23	1.23	1.23	1.23	1.23	1.23

IN SETS. Per Set

Solid Punch Set—Containing one punch each; 0, 4, 8, Prick one wire chisel, ¾ inch; one lantern chisel, ½x5½ inch. . $0.83

PRICK PUNCHES.

Per Dozen.

No. 60—Cast steel; length, 5 inches; weight per dozen, 1¾ pounds. $1.23

WIRE CHISELS.

Special forged steel, gun metal finish.

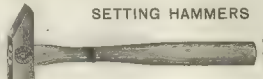
Inches	¼	½	¾	1
Weight per doz. lbs.	1	1½	2	2¼
Per Dozen	$1.56	1.92	2.40	3.24

LANTERN CHISELS.

Per Dozen

Lantern Chisels—Cast steel, ½x5½ inches; weight per doz., 2 lbs. $2.10

SETTING HAMMERS

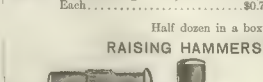


High grade forged steel, tempered and hardened, full polished head. Hickory handle.

Nos.	1	2	3	4	5
Size of Face, Inches	1½	1	⅞	¾	⅝
Wgt. inc. handle, lbs.	1½	1¼	1⅛	⅝	½
Each	$0.78	.70	.64	.60	.57

Half dozen in a box.

RIVETING HAMMERS.



High grade forged steel, tempered and hardened, full polished head. Hickory handle

Nos.	1	2	3
Size of Face, Inches	1½	1	⅞
Wgt. including handle, lbs.	1½	1½	1⅛
Each	$0.78	.71	.63

Half dozen in a box.

RAISING HAMMERS.

Forged from crucible steel, full tempered, black finish, hickory handle

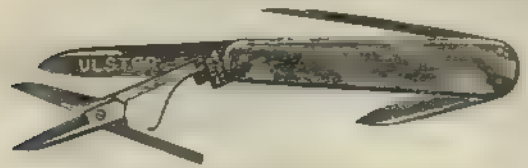
Nos.	1	2	3
Weight including handle, lbs.	5	3¾	2¼
Each	$4.70	2.95	2.35

For Tinners' Mallets see page 84.

POCKET KNIVES

ULSTER KNIFE COMPANY

Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use.



Scissor Knife

Full polished, German silver lining, full milled.

Per Dozen

No. U4402—4 blades, **Pearl** handle, 2⅞ in.....$66 00
No. U4426—4 blades, **Genuine Stag** handle, 2⅞ in..... 46 00

Full polished, German silver lining, shield and tips full milled.

Per Dozen

No. U4401—4 blades, **Pearl** handle, 3⅛ in.....$46 00
No. U4425—4 blades, **Genuine Stag** handle, 3⅛ in..... 36 00

Full polished, German silver lining and shield full milled.

Per Dozen

No. U4432—4 blades, **Pearl** handle, 3 in.....$39 50
No. U3350—3 blades, **Pearl** handle, 1 large spear point, 1 pen, 1 file, 3 in..... 38 00

Full polished, German silver lining, full milled.

Per Dozen

No. U4433—4 blades, **Pearl** handle, 3⅛ in.....$38 00

Full polished, German silver lining, full milled.

Per Dozen

No. U4413—4 blades, **Pearl** handle, 3⅛ in.....$39 50
No. U4423—4 blades, **Genuine Stag** handle 3¼ in..... 26 00

Full polished, German silver lining, full milled.

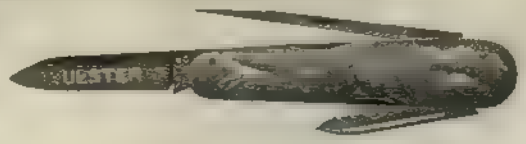
Per Dozen

No. U4414—4 blades, **Pearl** handle, 3 in.....$37 50
No. U4424—4 blades, **Genuine Stag** handle, 3 in..... 26 00

Full polished, German silver lining, full milled.

Per Dozen

No. U3410—3 blades, **Pearl** handle, 3 in.....$37 50



Full polished, milled lining

Per Dozen

No. U3391—3 blades, **Pearl** handle, brass lined, 2⅞ in.....$30 00
No. U3392—3 blades, **Pearl** handle, brass lined, German silver tips and shield 2½ in..... 30 00

Full polished, German silver tips and shield.

Per Dozen

No. U3393—3 blades, **Pearl** handle, brass lined, 3⅛ in.....$33 00

Full polished blades, full milled German silver lining and tips.

Per Dozen

No. U2627—2 blades, **Pearl** handle, 3 in.....$29 50
No. U2626—2 blades, **Stag** handle, 3 in..... 16 00

Full polished, full milled German silver lining and tips.

Per Dozen

No. U2625—2 blades, **Pearl** handle, 3 in.....$29 50
No. U2624—2 blades, **Stag** handle, 3 in..... 16 00

Full polished, German silver bolster and shield.

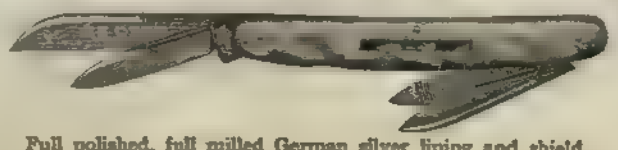
Per Dozen

No. U3365—3 blades, **Pearl** handle, brass lined, 3⅛ in.....$44 00

Full polished, German silver lining, bolsters and shield.

Per Dozen

No. U4421—4 blades, **Pearl** handle, 3⅛ in.....$46 00
No. U4422—4 blades, **Genuine Stag** handle, 3⅛ in..... 36 00



Full polished, full milled German silver lining and shield.

Per Dozen

No. U4415—4 blades, **Pearl** handle, 3⅝ in.....$53 00
No. U4440—4 blades, **Pearl** handle, 3⅛ in..... 37 00

All Half Dozen in a Box

POCKET KNIVES

ULSTER KNIFE COMPANY

Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use.

Full polished, German silver lining, full milled

Per Dozen

No. U4427—4 blades, **Pearl** handle, 3¼ in.....$36.00
No. U4420—4 blades, **Pearl** handle, without milling, 3⅛ in 37.50

Full polished, German silver lining and shield.

Per Dozen

No. U4410—4 blades, **Pearl** handle, 3⅛ in.....$32.00

Full polished, German silver lining.

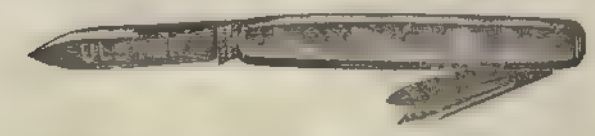
Per Dozen

No. U4438—4 blades, **Pearl** handle, 3⅛ in.....$29.50

Full polished, German silver lining and shield.

Per Dozen.

No. U4436—4 blades, **Pearl** handle, 3 in..... $27.50



Full polished, full milled, German silver lining and tips.

Per Dozen.

No. U3348—3 blades, **Pearl** handle, 3¼ in..... $36.00

Full polished, milled, German silver lining, tips and shield.

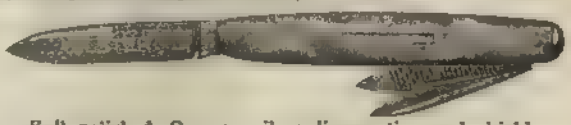
Per Dozen

No. U3367—3 blades, **Pearl** handle, 3¼ in. $36.00
No. U4430—4 blades, **Pearl** handle, 1 large spear point, 2 pens, 1 file, 3¼ in..... 38.00

Per Dozen

Full polished, full milled, German silver lining, tips and shield.

No. U4439—4 blades, **Pearl** handle, 3¼ in.....$35.00



Full polished, German silver lining, tips and shield.

Per Dozen.

No. U3346—3 blades, **Pearl** handle, 3¼ in.....$30.00
No. U3347—3 blades, **Stag** handle, 3¼ in..... 16.50
No. U4408—4 blades, **Pearl** handle, 1 large spear point, 2 pens, 1 file, 3¼ in..... 33.00
No. U2346—2 blades, **Pearl** handle, 1 large spear point, 1 file, 3¼ in..... 23.00

Full polished, German silver lining, tips and shield.

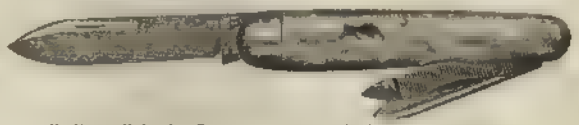
Per Dozen.

No. U3318—3 blades, **Pearl** handle, 3 in.....$27.50
No. U3319—3 blades, **Stag** handle, 3 in..... 16.50

Full polished, German silver lining, tips and shield.

Per Dozen

No. U3313—3 blades, **Pearl** handle, 3⅜ in.....$36.00



Full polished, German silver bolster and shield.

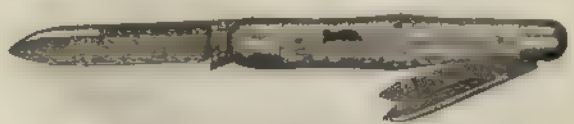
Per Dozen

No. U3351—3 blades, **Pearl** handle, brass lined, 3⅜ in.....$37.50

Full polished, German silver lining, tips and shield.

Per Dozen

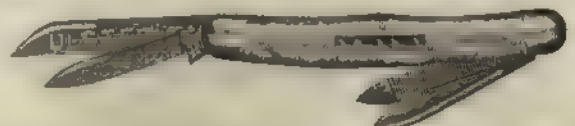
No. U3353—3 blades, **Pearl** handle, 3 in.....$29.00



Full polished, German silver bolsters and shield

Per Dozen

No. U3349—3 blades, **Pearl** handle, brass lined, 3¼ in.....$26.00



Full polished, full milled, German silver bolsters and shield.

Per Dozen

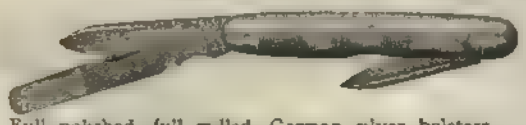
No. U4442—4 blades, **Pearl** handle, brass lined, 3¼ in.....$33.00
No. U4441—4 blades, **Genuine Stag** handle, brass lined, 3¼ in.. 26.00

All Half Dozen in a Box

POCKET KNIVES

ULSTER KNIFE COMPANY

Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use



Full polished, full milled, German silver bolsters.

Per Dozen

No. U3396—3 blades, **Pearl** handle, brass lined, 3 in.....$29.50

Full polished blades, German silver bolsters.

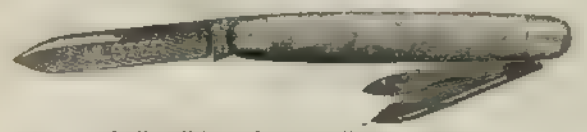
Per Dozen

No. U3363—3 blades, **Pearl** handle, brass lined, 3 in.....$29.50
No. U3969—3 blades, **Genuine Stag** handle, brass lined, 3 in.... 24.00

Full polished blades, German silver bolsters.

Per Dozen

No. U4405—4 blades, **Pearl** handle, brass lined, 3 in.....$26.00
No. U4406—4 blades, **Stag** handle, brass lined, 3 in..... 16.25
No. U3334—3 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 1 file, 3 in..... 25.00



Full polished, German silver bolsters.

Per Dozen

No. U3374—3 blades, **Pearl** handle, brass lined, 3¼ in.....$26.00
No. U3385—3 blades, **Pearl** handle, brass lined, 1 large spear point, 2 pens, 3⅛ in..... 26.00
No. U2614—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 3⅛ in..... 19.50

Half polished, German silver bolsters and shield.

Per Dozen

No. U3318—3 blades, **Pearl** handle, brass lined, 3½ in.....$28.50
No. U3317—3 blades, **Stag** handle, brass lined, 3½ in..... 16.00
No. U2242—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 3½ in..... 21.00

Full polished, brass lined, German silver bolsters and shield.

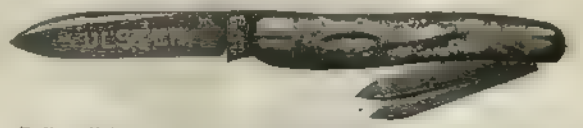
Per Dozen

No. U3353—3 blades, **Pearl** handle, 3¼ in.....$33.00

Full polished, German silver bolsters and shield.

Per Dozen

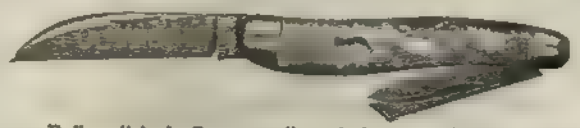
No. U4400—4 blades, **Pearl** handle, brass lined, 3¼ in.....$28.00



Full polished blades, German silver bolsters and shield.

Per Dozen

No. U3329—3 blades, **Pearl** handle, brass lined, 3¼ in.....$30.00



Full polished, German silver bolsters and shield.

Per Dozen

No. U3322—3 blades, **Pearl** handle, brass lined, 3¼ in.....$27.00

Full polished, German silver bolsters and shield.

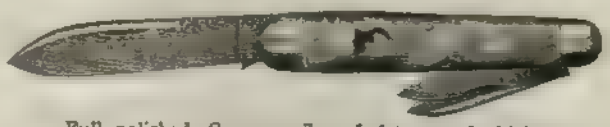
Per Dozen

No. U3397—3 blades, **Pearl** handle, brass lined, 3⅝ in.....$27.00
No. U3412—3 blades, **Stag** handle, brass lined, 3⅝ in..... 17.00

Full polished, German silver bolsters and shield.

Per Dozen

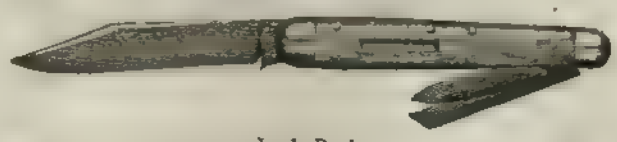
No. U3400—2 blades, **Pearl** handle, brass lined, 3⅛ in.....$27.00
No. U3399—2 blades, **Stag** handle, brass lined, 3⅛ in..... 17.00



Full polished, German silver bolsters and shield.

Per Dozen

No. U3337—3 blades, **Pearl** handle, brass lined, 3¾ in.....$35.00
No. U3338—3 blades, **Stag** handle, brass lined, half polished, 3¾ in..... 17.00
No. U3336—3 blades, **Ebony** handle, brass lined, half polished, 3¾ in..... 17.00
No. U3371—3 blades, **Ebony** handle, brass lined, half polished, 1 large clip point, 1 sheep foot, 1 pen, 3¾ in..... 17.00
No. U3377—3 blades, **Genuine Stag** handle, brass lined, half polished, 1 large spear point, 1 pen, 1 file, 3⅝ in..... 22.00



Lock Back

Full polished, full milled, German silver bolsters and shield.

Per Dozen

No. U3302—3 blades, **Pearl** handle, brass lined, 3¾ in.....$42.00

Full polished, full milled, German silver lining, bolsters and shield.

Per Dozen

No. U3332—2 blades, **Pearl** handle, 4 in.....$42.00

All Half Dozen in a Box

POCKET KNIVES

ULSTER KNIFE COMPANY

Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use

Full polished, German silver lined.

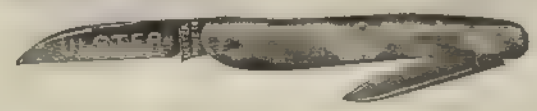
Per Dozen

No. U2270—2 blades, **Pearl** handle 2⅜ in. $19.50

Full polished, German silver lined.

Per Dozen

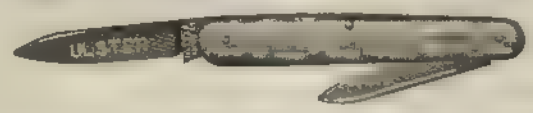
No. U2273—2 blades, **Pearl** handle, 2½ in. $19.50



Full polished blades.

Per Dozen

No. U2271—2 blades, **Pearl** handle, brass lined, 2⅜ in. $20.50
No. U2272—2 blades, **Pearl** handle, brass lined, 1 large wharncliffe blade, 1 file, 2⅜ in. 21.00



Full polished blades.

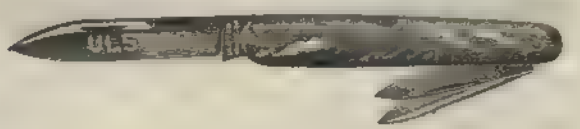
Per Dozen

No. U2286—2 blades, **Pearl** handle, brass lined, 3 in. $17.50
No. U3323—3 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 1 file, 3 in. 23.00

Full polished blades.

Per Dozen

No. U2263—2 blades, **Pearl** handle, brass lined, 3¼ in. $19.50



Half polished blades

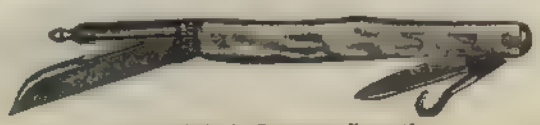
Per Dozen

No. U3326—3 blades, **Pearl** handle, brass lined, 3¼ in. $29.00
No. U2269—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 3¼ in. 20.00

Full polished, German silver lining, tips and shield.

Per Dozen

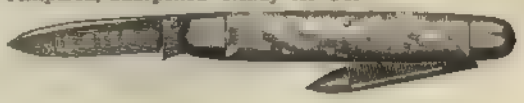
No. U3309—3 blades, **Pearl** handle, 2⅞ in. $22.00



Full polished, German silver tips

Per Dozen

No. U4431—4 blades, **Pearl** handle, brass lined, 2⅝ in. $26.00



Half polished, German silver bolsters.

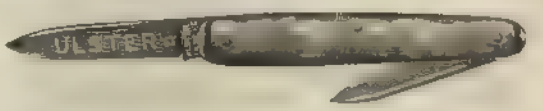
Per Dozen

No. U2237—2 blades, **Pearl** handle, brass lined, 2⅝ in. $13.00
No. U2250—2 blades, **Pearl** handle, brass lined, full polished, 1 large spear point, 1 pen, 2⅞ in. 15.00

Full polished, German silver bolsters.

Per Dozen

No. U2256—2 blades, **Pearl** handle, brass lined, 3 in. $16.00



Full polished, German silver tips and shield.

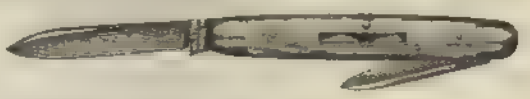
Per Dozen

No. U2266—2 blades, **Pearl** handle, brass lined, 2⅜ in. $14.50
No. U2267—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 file, 2⅜ in. 15.00
No. U2268—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 2⅜ in. 16.00
No. U2269—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 file, 2⅜ in. 16.50
No. U3328—3 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 1 file, 2⅜ in. 22.00

Full polished, German silver bolsters.

Per Dozen

No. U2318—2 blades, **Pearl** handle, brass lined, 2⅜ in. $15.00



Full polished, German silver bolsters and shield

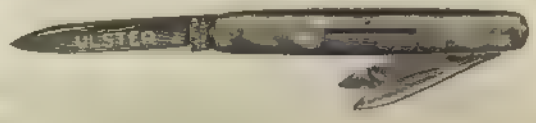
Per Dozen

No. U2357—2 blades, **Pearl** handle, brass lined, 2⅜ in. $15.00
No. U2358—2 blades, **Pearl** handle, brass lined, 1 large spear point, 1 file, 2⅜ in. 15.50
No. U3359—3 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 1 file, 2⅜ in. 21.00

Full polished, German silver bolsters

Per Dozen

No. U2232—2 blades, **Pearl** handle, brass lined, 3 in. $15.00
No. U3310—3 blades, **Pearl** handle, brass lined, 1 large spear point, 1 pen, 1 file, 3 in. 21.00
No. U3311—3 blades, **Stag** handle, brass lined, 3 in. 13.00
No. U4403—4 blades, **Pearl** handle, brass lined, 1 large spear point, 2 pens, 1 file, 3 in. 22.00



Full polished, German silver lining, tips and shield.

Per Dozen

No. U3355—3 blades, **Pearl** handle, 2⅞ in. $24.00
No. U4416—4 blades, **Pearl** handle, 1 large spear point, 2 pens, 1 file 25.00

All Half Dozen in a Box

POCKET KNIVES

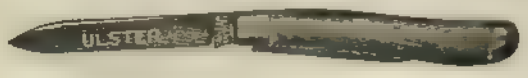
ULSTER KNIFE COMPANY

Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use.

Full polished, German silver bolster

Per Dozen

No. U2229—2 blades, **Pearl** handle, brass lined, 2¾ in.....$14 00



Full polished, German silver bolster and cap.

Per Dozen

No. U2628—2 blades, **Pearl** handle, brass lined, 2⅞ in.....$17 00

Full polished, aluminum cap, steel bolster.

Per Dozen

No. U2619—2 blades, **Pearl** handle, brass lined, 3 in.....$16 00

Full polished, German silver bolster, cap and shield.

Per Dozen

No. U2345—2 blades, **Pearl** handle, brass lined, 2¾ in.....$18 00

Full polished, German silver bolster, cap and shield.

Per Dozen

No. U2372—2 blades, **Pearl** handle, brass lined, 3 in.....$21 00

Full polished, German silver bolster, cap and shield

Per Dozen

No. U2295—2 blades, **Pearl** handle brass lined, 3 in.....$22 00

Full polished, German silver bolster and cap.

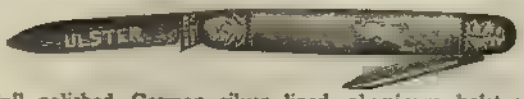
Per Dozen

No. U2360—2 blades, **Pearl** handle, brass lined, 3⅝ in.....$28 00

Full polished, German silver cap, steel bolster.

Per Dozen

No. U2395—2 blades, **Pearl** handle, brass lined, 3⅞ in.....$36 00



Full polished, German silver lined, aluminum bolsters.

Per Dozen

No. U2363—2 blades, **Pearl** handle, 3 in.....$17.50

Full polished, German silver lined, aluminum bolsters.

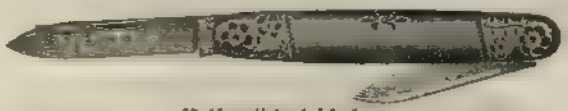
Per Dozen

No. U2362—2 blades, **Pearl** handle, 3½ in.....$22 00

Full polished blades.

Per Dozen

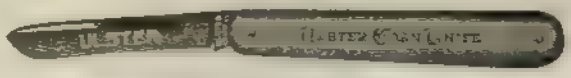
No. U2621—2 blades, **Aluminum** handle, 2¾ in.....$9 00



Half polished blades.

Per Dozen

No. U2623—2 blades, **Aluminum** handle, 3½ in.....$13 00



Corn knife, glazed blade

Per Dozen

No. U1130—1 blade, **White Celluloid** handle, German silver lined, 3¼ in.....$12 00

Office knife, half polished, brass lined.

Per Dozen

No. U2365—2 blades, **White Celluloid** handle 3⅝ in.....$13 50

Glazed blade, budding knife

Per Dozen

No. U1119—1 blade, **White Bone** handle, 4 in.....$12 00

No. U1100—1 blade, **Stag** handle, 4 in..... 9.50

Glazed blade, budding knife, German silver bolster, ivory tip, 1¾ in. long, for grafting.

Per Dozen

No. U1120—1 blade **Black Horn** handle, brass lined, 5 in.....$13.50

All Half Dozen in a Box

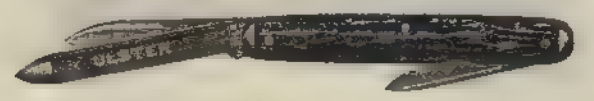
POCKET KNIVES

ULSTER KNIFE COMPANY

Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use.

Full polished, full milled, German silver lining and shield

	Per Dozen
No. U3370—3 blades, **Genuine Stag** handle, 3⅛ in.	$29.00
No. U3402—3 blades, **Silver Celluloid** handle, 3⅛ in.	23.00
No. U3401—3 blades, **Shell Celluloid** handle, 3⅛ in.	23.00



Full polished, German silver lining, tips and shield

	Per Dozen
No. U3368—3 blades, **Genuine Stag** handle, 3¼ in.	$27.00

Full polished, German silver lining, tips and shield

	Per Dozen
No. U3356—3 blades, **Stag** handle, 2¾ in.	$16.00
No. U4417—4 blades, **Stag** handle, 1 large spear point, 2 pens, 1 file, 2¾ in.	17.00

Half polished, German silver bolsters and shield

	Per Dozen
No. U3376—3 blades, **Genuine Stag** handle, brass lined, 3⅝ in.	$19.00
No. U3405—3 blades, **Ebony** handle, brass lined, 3⅝ in.	17.00
No. U3406—3 blades, **Ebony** handle, brass lined, 3¼ in.	15.50

Half polished, German silver bolsters and shield

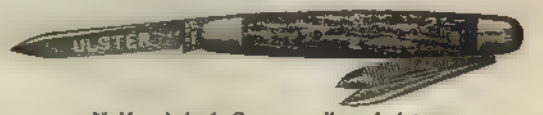
	Per Dozen
No. U3388—3 blades, **Stag** handle, brass lined, 3⅝ in.	$17.50

Half polished, German silver bolsters and shield

	Per Dozen
No. U3342—3 blades, **Stag** handle, brass lined, 3⅛ in.	$16.00

Half polished, German silver bolsters and shield

	Per Dozen
No. U3321—3 blades, **Stag** handle, brass lined, 3⅛ in.	$17.00



Half polished, German silver bolsters

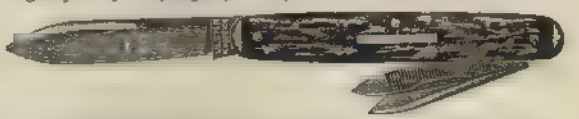
	Per Dozen
No. U3415—3 blades, **Stag** handle, brass lined, 3 in.	$13.00

Half polished, German silver bolsters and shield

	Per Dozen
No. U3414—3 blades, **Stag** handle, brass lined, 3⅛ in.	$15.00
No. U3419—3 blades, **Stag** handle, brass lined, 1 large spear point, 2 pens, 3¼ in.	15.00

Half polished, German silver tips

	Per Dozen
No. U3413—3 blades, **Stag** handle, brass lined, 3¼ in.	$16.00
No. U3416—3 blades, **Stag** handle, brass lined, with shield, 1 large spear point, 1 pen, 1 file, 3 in.	15.00



Half polished, German silver tips and shield

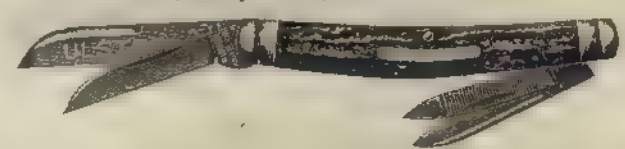
	Per Dozen
No. U3418—3 blades, **Stag** handle, brass lined, 3¼ in.	$16.00
No. U2666—2 blades, **Stag** handle, brass lined, 1 large spear point, 1 pen, 3¼ in.	11.00

Half polished, German silver bolsters and shield

	Per Dozen
No. U3417—3 blades, **Ebony** handle, brass lined, 3¼ in.	$16.00
No. U3398—3 blades, **Stag** handle, brass lined, 1 large spear point, 2 pens, 3¼ in.	15.00

Half polished, German silver bolsters and shield

	Per Dozen
No. U3375—3 blades, **Stag** handle, brass lined, 3¼ in.	$15.00
No. U3372—3 blades, **Ebony** handle, brass lined, 3¼ in.	15.00



Glazed blades, steel bolsters

	Per Dozen
No. U4404—4 blades, **Stag** handle, brass lined, 3⅛ in.	$15.00

Half polished, German silver bolsters and shield

	Per Dozen
No. U4409—4 blades, **Stag** handle, brass lined, 4 in.	$19.00

All Half Dozen in a Box

POCKET KNIVES

ULSTER KNIFE COMPANY

Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use.

Half polished, steel bolsters

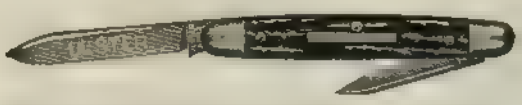
Per Dozen

No. U2665—2 blades, **Stag** handle, brass lined, 3⅛ in.... $11.00
No. U2253—2 blades, **Stag** handle, brass lined, 3 in..... 10.00
No. U2239—2 blades, **Stag** handle, brass lined, without shield, 3¼ in. 10.50

Half polished, German silver bolsters

Per Dozen

No. U2668—2 blades, **Stag** handle, brass lined, 2⅞ in.....$10.00



Half polished, German silver bolsters and shield

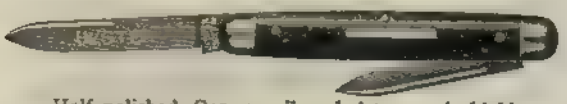
Per Dozen

No. U2359—2 blades, **Stag** handle, brass lined, 2⅞ in..... ..$10.00

Half polished, German silver bolsters

Per Dozen

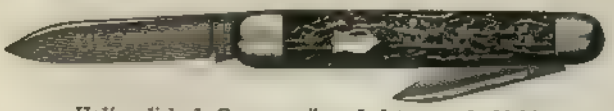
No. U2431—2 blades, **Shell Celluloid** handle, brass lined, 3⅛ in..$10.00
No. U2613—2 blades, **Ebony** handle, brass lined, with shield, 3⅜ in. 10.00
No. U2615—2 blades, **Stag** handle, brass lined, with shield, 3⅜ in. 10.00



Half polished, German silver bolsters and shield

Per Dozen

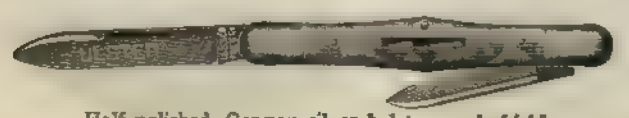
No. U2664—2 blades, **Ebony** handle, brass lined, 3⅜ in.... ... $10.00
No. U2663—2 blades **Stag** handle, brass lined, 3⅜ in..... 10.00



Half polished, German silver bolsters and shield

Per Dozen

No. U2661—2 blades, **Stag** handle, brass lined, 3⅜ in.... .. ...$11.00
No. U2662—2 blades, **Cocoa** handle brass lined 3¾ in..... .. 10.50



Half polished, German silver bolsters and shield

Per Dozen

No. U2432—2 blades, **Silver Celluloid** handle, brass lined, 3⅜ in.$10.00
No. U2433—2 blades, **Shell Celluloid** handle, brass lined, 3⅜ in.. 10.00
No. U2227—2 blades, **Black Horn** handle, brass lined, 3⅜ in.... 10.00

Half polished, German silver bolsters and shield

Per Dozen

No. U2667—2 blades, **Stag** handle, brass lined, 3⅜ in $10.50
No. U2670—2 blades, **Stag** handle, brass lined, 3 in. 10.00

Half polished blades

Per Dozen

No. U2440—2 blades, **Silver Celluloid** handle, brass lined 2⅞ in..$9.50

Half polished, German silver tips and shield

Per Dozen

No. U2418—2 blades, **Shell Celluloid** handle, brass lined, 2⅞ in...$9.00

Half polished, German silver bolsters

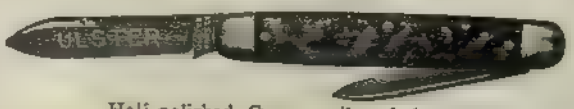
Per Dozen

No. U2415—2 blades, **Silver Celluloid** handle, brass lined, 2⅞ in..$9.00
No. U2420—2 blades, **Shell Celluloid** handle, brass lined, 3 in..... 9.00

Half polished, German silver bolsters and shield

Per Dozen

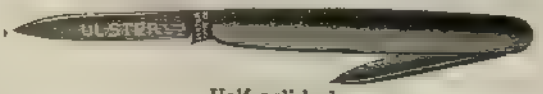
No. U2437—2 blades, **Silver Celluloid** handle, brass lined, 3 in....$9.00



Half polished, German silver bolsters

Per Dozen

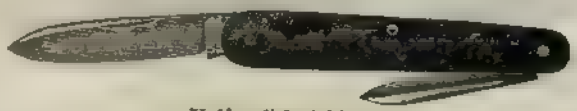
No. U2427—2 blades, **Silver Celluloid** handle, brass lined, 3 in.. $9.50
No. U2424—2 blades, **White Celluloid** handle, brass lined, 3 in... 9.50
No. U2669—2 blades, **Stag** handle, brass lined, 3 in..... 9.00



Half polished

Per Dozen

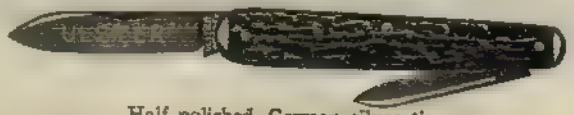
No. U2660—2 blades, **German Silver** handle, 3 in..... .....$10.00



Half polished blades

Per Dozen

No. U2425—2 blades, **Shell Celluloid** handle, brass lined, 3¼ in..[illegible]
No. U2426—2 blades, **Silver Celluloid** handle, brass lined, 3¼ in.. 9.00
No. U2257—2 blades, **Black Horn** handle, brass lined, 3¼ in..... 9.00
No. U2260—2 blades, **Stag** handle, brass lined, 3¼ in.. .... 9.00



Half polished, German silver tips

Per Dozen

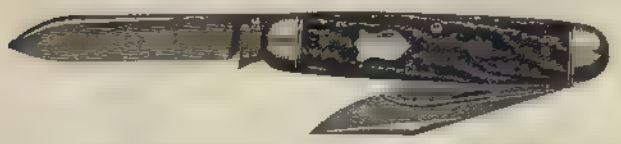
No. U2264—2 blades, **Stag** handle, brass lined, 3¼ in.....$11.00

All Half Dozen in a Box

POCKET KNIVES

ULSTER KNIFE COMPANY

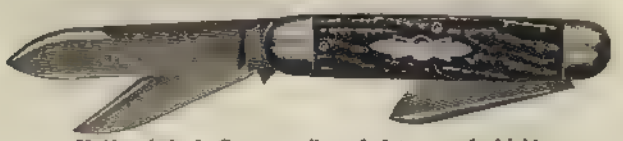
Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use



Half polished, German silver bolsters and shield

Per Dozen

No. U3382—3 blades, **Stag** handle, brass lined, 3⅝ in.....$18 00



Half polished, German silver bolsters and shield

Per Dozen

No. U3306—3 blades, **Stag** handle, brass lined, 3⅝ in.....$17 50

Half polished, German silver bolsters and shield

Per Dozen

No. U3407—3 blades, **Ebony** handle, brass lined, 3⅝ in.....$17.00

No. U3408—3 blades, **Stag** handle, brass lined, 3⅝ in..... 18.00

Half polished, German silver bolsters and shield

Per Dozen

No. U3331—3 blades, **Stag** handle, brass lined, 3⅝ in.....$16.50

No. U3304—3 blades, **Ebony** handle, brass lined, 3⅝ in..... 17.00

Half polished, German silver bolsters and shield

Per Dozen

No. U3409—3 blades, **Stag** handle, brass lined, 3⅝ in.. .. . . .$18.50

No. U3330—3 blades, **Cocoa** handle, brass lined, 1 large spear point, 1 large spey, 1 pen, 3⅝ in..... 18 00

Half polished, German silver bolsters and shield

Per Dozen

No. U3411—3 blades, **Stag** handle, brass lined, 4 in..... .....$19 00

Half polished, German silver bolsters and shield

Per Dozen

No. U3380—3 blades **Stag** handle, brass lined, 4 in.... . .....$19.00

Half polished, German silver bolsters and shield

Per Dozen

No. U3343—3 blades, **Cocoa** handle, brass lined, 3⅛ in.....$15.00

Half polished, German silver bolsters and shield

Per Dozen

No. U3394—3 blades, **Ebony** handle, brass lined, 3⅝ in.....$15 00

Half polished, German silver bolsters and shield

Per Dozen

No. U3307—3 blades, **Black Horn** handle, brass lined, 3¾ in...$16.50

Half polished, German silver bolsters and shield

Per Dozen

No. U3300—3 blades **Ebony** handle, brass lined, 3⅝ in.....$17 00

Half polished, German silver bolsters and shield

Per Dozen

No. U3301—3 blades **Ebony** handle, brass lined, 3½ in.. . . ....$18 00

Half polished, German silver bolsters and shield

Per Dozen

No. U3366—3 blades, **Genuine Stag** handle, brass lined, 4 in....$24.00

Full polished, German silver bolsters and shield

Per Dozen

No. U4435—4 blades, **Stag** handle, brass lined, 3⅞ in.....$23.00

All Half Dozen in a Box

POCKET KNIVES

ULSTER KNIFE COMPANY

Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use

Full polished, German silver bolster and cap

Per Dozen

No. U2337 2 blades **Black Horn** handle, brass lined, 3⅝ in.. .$14 50

Full polished, German silver bolster and cap

Per Dozen

No. U2361—2 blades, **Stag** handle, brass lined, 3⅝ in..... .....$14.00
No. U2336—2 blades, **Black Horn** handle, brass lined, 3⅝ in.. . 14 00

Full polished, German silver bolster, cap and shield

Per Dozen

No. U2320—2 blades, **Genuine Stag** handle, brass lined, 3⅝ in..$15.00

Half polished, German silver bolster, cap and shield

Per Dozen

No. U2646—2 blades, **Ebony** handle brass lined, 3¾ in.... ... $13 50

Half polished, German silver bolster and shield

Per Dozen

No. U2213—2 blades, **Cocobolo** handle, brass lined, 3¾ in.....$12.00

Half polished, German silver bolster and shield

Per Dozen

No. U2338—2 blades, **Stag** handle, brass lined, 3⅝ in.....$14 00

Half polished, German silver bolster, cap and shield

Per Dozen

No. U2654—2 blades, **Stag** handle brass lined 3⅞ in $15 50
No. U2663—2 blades, **Stag** handle, brass lined, 1 large clip point, 1 pen, 3⅞ in... .... 15 00

Half polished, German silver bolsters and shield

Per Dozen

No. U2230—2 blades, **Stag** handle, brass lined, 3⅛ in..... ..$15 00

Half polished, German silver bolsters and shield

Per Dozen

No. U2296—2 blades, **Ebony** handle brass lined, 3¼ in.....$12 00
No. U2297—2 blades, **Stag** handle, brass lined, 3¼ in..... 12.00

Half polished, German silver bolster, cap and shield

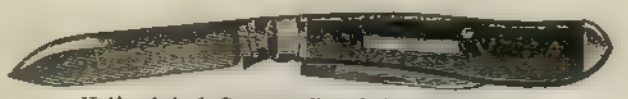
Per Dozen

No. U2341 -2 blades, **Ebony** handle, brass lined, 3⅛ in.....$13.50
No. U2342—2 blades, **Stag** handle, brass lined, 3⅛ in..... . .. 14 00

Half polished, German silver bolster, cap and shield

Per Dozen

No. U2648—2 blades, **Stag** handle, brass lined 3⅞ in.. ..... .$14 00
No. U2647 -2 blades **Ebony** handle, brass lined, 3⅞ in.... .... 13.50



Half polished, German silver bolsters and shield

Per Dozen

No. U2332—2 blades, **Ebony** handle, brass lined, 3½ in.....$13 00

Half polished, German silver bolster, cap and shield

Per Dozen

No. U2333—2 blades, **Ebony** handle, brass lined 3½ in.....$12 00

Half polished, German silver bolsters and shield

Per Dozen

No. U2286—2 blades, **Stag** handle, brass lined, 3½ in.....$13 00
No. U2285—2 blades, **Ebony** handle, brass lined, 3½ in 12.50

Half polished, German silver bolsters and shield

Per Dozen

No. U2353—2 blades, **Ebony** handle, brass lined, 3½ in.....$13.00

Half polished, German silver bolster, cap and shield

Per Dozen

No. U2310—2 blades, **Ebony** handle, brass lined, 3½ in.....$11.50
No. U2651—2 blades, **Ebony** handle, brass lined, 1 large spear joint, 1 pen, 3½ in 11.50
No. U2312—2 blades, **Ebony** handle brass lined 3¾ in..... 13.00
No. U2652—2 blades, **Stag** handle, brass lined, 3¾ in..... 13.50

All Half Dozen in a Box

POCKET KNIVES

ULSTER KNIFE COMPANY

Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use.

Half polished, German silver bolsters and shield.

Per Dozen

No. U3390—3 blades, **Stag** handle, brass lined, 3⅝ in.....$17 00

Half polished, German silver bolsters and shield.

Per Dozen

No. U3387—3 blades, **Stag** handle, brass lined, 3⅝ in.....$18 50

Glazed blades, steel bolster.

Per Dozen

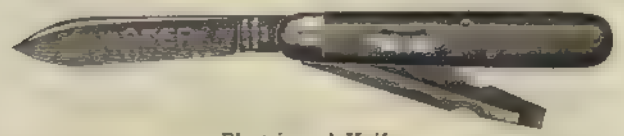
No. U2524—2 blades, **Cocoa** handle, brass lined, 3½ in.. .. .. .$10 50

Electricians' Knife.

Lock back screwdriver blade, with 1¼ in. sharp cutting edge, glazed, German silver bolster and shield

Per Dozen

No. U18660—1 blade, **Cocobolo** handle, brass lined, 3⅝ in. $9 50

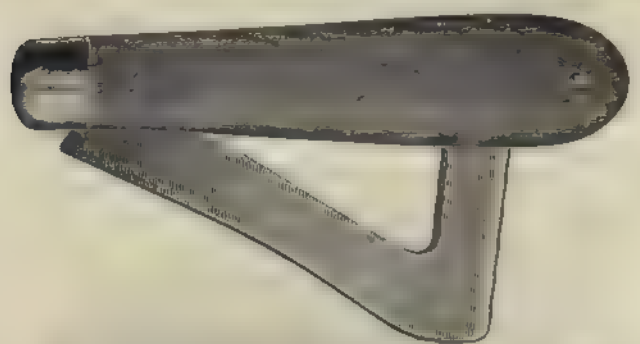


Electricians' Knife

Lock back screwdriver blade, with 1¼ in. sharp cutting edge, glazed, German silver bolster and shield

Per Dozen

No. U28660—2 blades, **Cocobolo** handle, brass lined, 3⅝ in.....$13 50



Timber Scribe or Race Knife.

Per Dozen

No. U1125—1 blade, **Cocobolo** handle, steel lined, 3⅝ in.....$12 50

Camping Companion.

Polished steel bolster. Steel lined, half polished. Fine quality English steel blade, one two-tine steel fork, polished, one solid nickel silver spoon. Comes apart in two separate parts, Knife separately, and fork and spoon in one part.

Per Dozen

No. U3383—3 blades, **Cocobolo** handle, 4½ in $19.50

Quarter Dozen in a Box

Half polished, German silver bolster and cap.

Per Dozen

No. U2289—2 blades **Ebony** handle, brass lined, 4 in.....$15 00

No. U2609—2 blades, **Stag** handle, brass lined, 4 in..... 15 00

Half polished, German silver bolster and cap.

Per Dozen

No. U2388—2 blades, **Stag** handle, brass lined, 4½ in.....$15 00

No. U2387—2 blades, **Stag** handle, brass lined, 1 large spear point, 1 pen, 4½ in.. .. .. 15 00

Lock back.

Half polished, steel bolster.

Per Dozen

No. U1117—1 blade, **Stag** handle, steel lined, 4⅝ in.. . .. ... $18 00

Lock back.

Half polished, German silver bolster and shield.

Per Dozen

No. U1122—1 blade, **Stag** handle, brass lined, 4½ in..... ....$18 00

Pruning Knife

Glazed blade, steel bolster.

Per Dozen

No. U1112—1 blade, **Ebony** handle, brass lined, 3⅝ in.....$9.00

Pruning Knife.

Glazed blade, steel bolster.

Per Dozen

No. U1136—1 blade, **Cocobolo** handle, steel lined, 4 in.....$9 00

Pruning Knife.

Glazed blade, steel bolster and copper cap.

Per Dozen

No. U1104—1 blade, **Stag** handle, brass lined, 4⅝ in.....$16 00

POCKET KNIVES

ULSTER KNIFE COMPANY

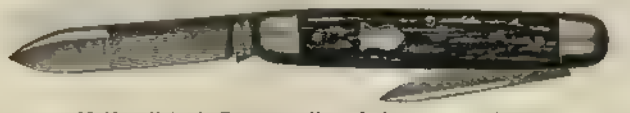
Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use

Half polished, German silver bolster, cap and shield

Per Dozen
No. U2340—2 blades, **Ebony** handle, brass lined, 3 in . . . $ 9 50
No. U2373—2 blades, **Stag** handle, brass lined, 3 in 10 00

Half polished, German silver bolsters and shield.

Per Dozen
No. U2251—2 blades, **Cocoa** handle, brass lined, 3½ in. $10 50



Half polished, German silver bolsters and shield

Per Dozen
No. U2254—2 blades, **Stag** handle, brass lined, 3⅝ in. $11 00

Half polished, German silver bolster, cap and shield

Per Dozen
No. U2321 -2 blades, **Stag** handle, brass lined, 3¼ in. $11 00
No. U2319 -2 blades, **Ebony** handle, brass lined, 3¼ in. 10 50
No. U2510—2 blades, **White Celluloid** handle, brass lined, 3¼ in. 11 00

Half polished, German silver cap and bolster

Per Dozen
No. U2600—2 blades, **Ebony** handle, brass lined, 3½ in. . . . $10 50
No. U2601 2 blades, **Stag** handle, brass lined, 3½ in. 11 00

Half polished, German silver bolster and cap.

Per Dozen
No. U2649—2 blades, **Stag** handle, brass lined, 3½ in. $11 00
No. U2605—2 blades, **Ebony** handle, brass lined, 3½ in. 10.50
No. U2604—2 blades, **Cocoa** handle, brass lined, 3½ in. 10.50
No. U2316—2 blades, **White Bone** handle, brass lined, 3½ in. . . . 11 00

Half polished, German silver bolster, cap and shield.

Per Dozen
No. U2655—2 blades, **Cocoa** handle, brass lined, 3⅝ in. $10 50
No. U2656—2 blades, **Stag** handle, brass lined, 3⅝ in. 10 50
No. U2531—2 blades, **White Celluloid** handle, brass lined, 3⅝ in. 10.50

Half polished German silver bolster

Per Dozen
No. U2400—2 blades, **Silver Celluloid** handle, brass lined, 2¾ in. . $9 00

Half polished, German silver bolster, cap and shield

Per Dozen
No. U2535—2 blades, **Gray Horn Celluloid** handle, 2¾ in. $9 50

Half polished, German silver bolster and shield.

Per Dozen
No. U2403—2 blades, **Shell Celluloid** handle, 3 in. . . . . [illegible]
No. U2428—2 blades, **Silver Celluloid** handle, 3 in. 9 00

Half polished, German silver bolster, cap and shield.

Per Dozen
No. U2642—2 blades, **Gray Horn Celluloid** handle, 3 in. $10 00
No. U2650—2 blades, **Stag** handle, 3 in. 10.00
No. U2284—2 blades, **Ebony** handle, 3 in. 10 00

Half polished, German silver bolster, cap and shield

Per Dozen
No. U2536—2 blades, **Gray Horn Celluloid** handle, brass lined, 2¾ in. $11 00
No. U2344—2 blades, **Stag** handle, brass lined, 3¼ in. 10.00
No. U2343—2 blades, **Ebony** handle, brass lined, 3¼ in. . . . . [illegible]

Half polished, German silver bolster and shield

Per Dozen
No. U2429—2 blades, **Silver Celluloid** handle, brass lined, 3 in. . . . $8 00
No. U2532—2 blades, **Gray Horn Celluloid** handle, brass lined, 3 in. 9 00

Half polished, German silver bolster and shield.

Per Dozen
No. U2446—2 blades, **Shell Celluloid** handle, 3 in. $9 00
No. U2534—2 blades, **Gray Horn Celluloid** handle, 3 in. 9 00

Half polished, German silver bolster

Per Dozen
No. U2444—2 blades, **Silver Celluloid** handle, brass lined, 3¼ in. . $9 00

All Half Dozen in a Box

POCKET KNIVES

ULSTER KNIFE COMPANY

Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use

Half polished, steel cap and bolster.

Per Dozen

No. U2502—2 blades, **Ebony** handle, brass lined, 3½ in.....$10 00

Half polished, steel cap and bolster

Per Dozen

No. U2500—2 blades, **Ebony** handle, brass lined, 3½ in.....$10.00
No. U2501—2 blades, **Cocoa** handle, brass lined, 3½ in..... 10.00

Half polished, steel cap and bolster

Per Dozen

No. U2525—2 blades, **Cocoa** handle, brass lined, 3⅛ in $11 00
No. U2628—2 blades, **Stag** handle, brass lined, 3½ in. 11.00

Half polished, steel cap and bolster.

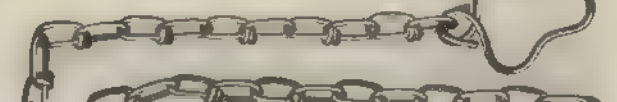
Per Dozen

No. U2530—2 blades, **Ebony** handle, brass lined, 1 large clip point, 1 pen, 3½ in.....$10.50
No. U2529—2 blades, **Cocobolo** handle, brass lined, 1 large spear point, 1 pen, 3½ in..... 10.50

Half polished, steel cap and bolster.

Per Dozen

No. U2522—2 blades, **Stag** handle, brass lined, 3¾ in. . . $11 50
No. U2521—2 blades, **Cocobolo** handle, brass lined, 1 large spear point, 1 pen, 3¾ in... . . . . 10 50



Half polished, steel bolster.

Per Dozen

No. U2351 2 blades, **White Bone** handle, brass lined, 3½ in....$9.50

Glazed blades, steel bolster and cap.

Per Dozen

No. U2301—2 blades, **Cocobolo** handle, steel lined, 3½ in., 16 in steel nickel plated chain.. . . . .$10 00

Half polished, German silver bolster, cap and shield.

Per Dozen

No. U2514—2 blades, **Stag** handle, brass lined, 3½ in.....$10.50
No. U2512—2 blades, **Cocobolo** handle, brass lined, 3½ in..... 10 00
No. U2511—2 blades, **Ebony** handle, brass lined, 3½ in..... 10.00
No. U2335—2 blades, **White Bone** handle, brass lined, steel bolster and cap, 3⅝ in..... 10.50

Half polished, German silver bolster, cap and shield.

Per Dozen

No. U2513—2 blades, **Ebony** handle, brass lined, 3½ in.....$10.00
No. U2515—2 blades, **Stag** handle, brass lined, 3½ in..... 10.50

Glazed blades, steel bolster and cap.

Per Dozen

No. U2605—2 blades, **Stag** handle, brass lined, 3½ in... . . .$11.50
No. U2523—2 blades, **Cocobolo** handle, brass lined, 3½ in 11 00

Easy Opener.

Half polished, steel cap and bolster.

Per Dozen

No. U2658—2 blades, **Ebony** handle, brass lined, 3⅝ in.....$10 50
No. U2518—2 blades, **Cocoa** handle, brass lined, 3⅝ in..... 10 50

Half polished, German silver cap and bolster

Per Dozen

No. U2659—2 blades, **Stag** handle, brass lined, 3⅝ in.....$12.00
No. U2361—2 blades, **Cocobolo** handle, brass lined, 3⅝ in..... 11 50

Half polished, steel bolster and cap.

Per Dozen

No. U2657—2 blades, **Stag** handle, brass lined, 3⅝ in.....$11.00
No. U2520—2 blades, **Ebony** handle brass lined, 3⅝ in..... 10 50
No. U2519—2 blades, **Cocoa** handle, brass lined, 3⅝ in. 10 50

Half polished, steel cap and bolster.

Per Dozen

No. U2643—2 blades, **Stag** handle, brass lined, 3⅝ in.....$11.00
No. U2507—2 blades, **Ebony** handle, brass lined, 3⅝ in..... ... 10.50
No. U2508—2 blades, **Cocobolo** handle, brass lined, 3⅝ in.... . 10 50

All Half Dozen in a Box

POCKET KNIVES

ULSTER KNIFE COMPANY

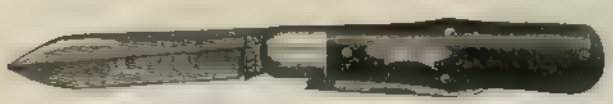
Highest Grade Wardlow English Steel Blades, Uniformly Tempered, Sharpened Ready for Use

Half polished, steel bolster.

Per Dozen
No. U2328—2 blades, **Cocoa** handle, brass lined, 3½ in $11 00

Glazed blades, steel bolster.

Per Dozen
No. U2382—2 blades, **Cocobolo** handle, brass lined, 3⅛ in.....$9 50



Half polished, German silver bolster and shield

Per Dozen
No. U2292—2 blades, **Ebony** handle, brass lined, 3⅝ in $10 00
No. U2287—2 blades, **Cocoa** handle, brass lined, 3⅝ in.. .. .. 10 00

Half polished, German silver bolster and shield

Per Dozen
No. U2217—2 blades, **Ebony** handle, brass lined, 3⅝ in . . .$10 00
No. U2218—2 blades, **Cocoa** handle, brass lined, 1 large spear point, 1 pen, 3⅝ in..... 10 00

Half polished, German silver bolster and shield

Per Dozen
No. U2280—2 blades, **Cocoa** handle, brass lined, 3⅝ in.. .....$11 00
No. U2277—2 blades, **Cocobolo** handle, steel lined, 3⅝ in.. ... 9 50

Half polished, German silver bolster and shield.

Per Dozen
No. U2644—2 blades, **Cocobolo** handle, brass lined 3¾ in . . $10 50
No. U2645—2 blades, **Ebony** handle, brass lined, 3¾ in.... . ... 10 50
No. U2210—2 blades, **Ebony** handle, brass lined, steel bolster, 4 in. 11 50
No. U2331—2 blades, **Ebony** handle, brass lined, 3¾ in 9 00

Half polished, German silver bolster and shield.

Per Dozen
No. U2212—2 blades, **Ebony** handle, brass lined, 4⅛ in.....$12 00

Glazed blades, steel bolster

Per Dozen
No. U1138—1 blade, **Cocobolo** handle, steel lined, 3⅛ in. $5 70
No. U1113—1 blade, **Cocobolo** handle, steel lined, large clip point, 3½ in..... 5 70

Glazed blades, steel bolster.

Per Dozen
No. U2329—2 blades, **Cocobolo** handle, steel lined, 3⅝ in... .. ..$7 00
No. U2641—2 blades, **Cocobolo** handle, steel lined, 1 large clip point, 1 pen, 3⅝ in..... 7.00

Glazed blades, steel bolster.

Per Dozen
No. U2330—2 blades, **Cocobolo** handle, steel lined, 3⅝ in., 15 in polished steel chain and clasp..... ... . .. $7.00

Glazed blades, steel bolster

Per Dozen
No. U2325—2 blades, **Stag** handle, steel lined, 3¼ in..... . $7 00
No. U2326—2 blades, **Ebony** handle, steel lined, 3¼ in.. ..... 7 00
No. U2327—2 blades, **Cocoa** handle, steel lined, 3¼ in, 1 large clip point, 1 pen. 7 00
No. U2602—2 blades, **Stag** handle, steel lined, 3¼ in 7 00

Bingham-Barlow
Glazed blades, steel bolster

Per Dozen
No. U2383—2 blades, **Ebony** handle, steel lined, 3¼ in $7 00
No. U2384—2 blades, **Ebony** handle, steel lined, 1 large clip point, 1 pen, 3⅜ in.. ... . 7 00

Bingham-Barlow
Glazed blades, steel bolster.

Per Dozen
No. U2618—2 blades, **Brown Bone** handle, steel lined, 3⅜ in.....$7 00
No. U2612—2 blades, **Brown Bone** handle, steel lined, 1 large spear point, 1 pen, 3⅜ in..... 7 00

All Half Dozen in a Box

TRUSS.

Per Dozen

No. 1—Truss Spring; nickel plated and polished; weight per dozen, 6 lbs. **$2.40**

In bulk.

COIL.

Per Dozen

No. 3—Coil Spring; nickel plated and polished; weight per dozen, 7 lbs **$3.20**

In bulk.

TROXEL.

UNIVERSAL.

Has same nose coil as Perfection Spring No. 480 and can be used on any wood base saddle with the regular bolts.

Per Dozen

No. 6—Troxel Universal Saddle Spring; black enameled finish; weight per dozen, 9 lbs. **$7.20**

One set in a box.

PERFECTION.

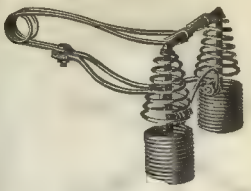
Per Dozen

No. 480—Troxel Perfection Saddle Spring; has the new nose coil which strengthens the saddle tree, and eyes flattened so that it is adjustable to any wood base saddle without using longer bolts; black enamel finish; weight per dozen, 27 lbs..... ..... **$12.00**

One set in a box.

TROXEL.

CUSHION COMFORT.



Per Dozen

No. CCS—Cushion Comfort Spring; will fit any saddle with wood base; will positively not hit bottom; takes up all the jar both ways; weight per dozen, 30 lbs. . . . **$14.00**

REAR.

Per Dozen

No. 500—Rear Saddle Spring; made of the very best spring wire obtainable; used on the highest priced saddles on the market and also on the Wald carriers and seats; black enamel finish; weight per dozen, 6½ lbs. **$2.50**

SADDLE CLAMPS.

STANDARD.

Per Dozen

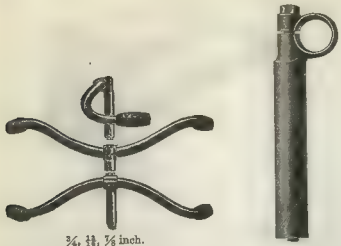
No. 30—Standard Clamp; weight per dozen, 3 lbs.. ... **$3.00**

SEAT POSTS.

Each

No. 94 –Forward L; nickel plated; with expansion stem: sizes, 13/16, 27/32, 7/8, 15/16, 1 and 1-1/16 inch; weight each, ¾ lb **$1.00**

PERFECTION.



¾, ⅞, ⅞ inch.

Each.

No. 45—Seamless steel tubing, expansive stem, drop forged, 20 inches wide, 3 inch drop at lowest point, 2 inch forward bend, nickeled on copper. Will fit machines either with or without handle bar clamp. No grips $2.00

Weight each, 1¼ lbs.

EXPANSION STEMS.

Each.

No. 40—Extra Expansion Stems; drop forged top stem, complete with expander bolt and plug, takes bar with 1 inch ferrule, sizes ¾, ⅞, ⅞ inch.....$0.66

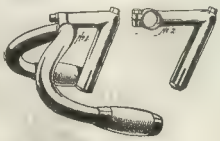
Weight each, ¾ lb.

ADJUSTABLE FORWARD EXTENSION.

Each.

No. 25—Seamless steel tubing, expansive stem, drop forged, 20 inches wide, nickeled on copper, 3 inch drop, 2 inch forward bend. Will fit machines with or without handle bar clamp. No grips $2.20

Weight each, 1¼ lbs.



¾, ⅞, ⅞ inch.

EXTENSION EXPANSION STEMS.

Each.

No. 2—Extra Extension Expansion Stems; 2½ inch forward takes bar with 1 inch ferrule, diameter of stem ¾, ⅞, ⅞ inch.....$0.84

Weight each, 1 lb.

FAT MANS.

Each.

No. 10F—Fat Man's Bar, used exclusively as an up-turn bar. Rise 5½ inches; no forward bend; width, 22 inches; complete with No. 40 or No. 2 stem as ordered $2.40

Weight each, 1¼ lbs.

ADJUSTABLE FORWARD EXTENSION.

Bar.

Stem.

Each.

No. 10H—Handle Bar; complete with stem, as illustrated, less grips; width, 22 inches; sizes, ⅞ inch only.....$2.50

Weight each, 1¾ lbs.

STEMS.

No. 8B—Extra Stems; sizes, ⅞ inch only..... .90

Weight each, 1 lb.

ENGLISH BOX.

Each

No. 12—Handle Bar; 22 inches wide; 6-inch raise; no forward curve; complete with No. 2 stem; no grips.....$2.50

Weight each, 1¾ lb.

MOTORBIKE TYPE.

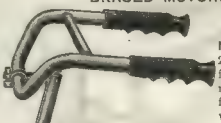
Patterned after the usual motorcycle handle bar.

Each

No. M216—Handle Bar; seamless steel tubing; expansion stem, drop forged, 22 inches wide; 6-inch raise; no forward curve; complete with No. 2 stem; less grips.....$2.50

Weight each, 2 lbs.

BRACED MOTORBIKE.



Each

No. 11N—Handle Bar; 20 inches wide; 10 inches front to back; 4¼-inch raise; fitted with 2¾-inch forward extension stem without grips $3.60

EXPANDER BOLTS AND PLUGS.

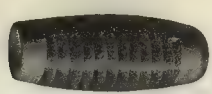
Per Dozen.

No. 41—Made of forged steel, head plated, cones are made from machinery steel, length under head 5⅛ and 6 inches, sizes ¾, ⅞, 1, 1⅛ and ⅞ inch.....$2.40

Weight per dozen, 3 lbs.

BICYCLE.

LEATHER WOUND.



Per Dozen Pairs

No. 8—Bicycle Grips; wood core; center covered by spirally wound leather; ⅞ inch; weight per dozen pairs, 3 lbs....$2.50

Per Dozen Pairs

No. 9—Bicycle Grips; closed end; leather wound grip; narrow nickel ferrule; ⅛ inch; weight per dozen pairs, 3 lbs.$3.80

SEWED LEATHER.

Per Dozen Pairs

No. 10—Bicycle Grips; wood core; sewed sole leather cover, ox blood and brown; ⅞ inch; weight per dozen pairs, 3 lbs... . . . . $4.80

BULL DOG MOTOR TYPE.

Is made of a core of light, strong wood, covered with best cow hide leather, stitched and cemented on, accurately molded to form, and the seam sunk into a groove in core, leaving a smooth surface Heavy nickeled brass ferrules securely and neatly spun on.

Per Dozen Pairs

No. BD—Bicycle Grip; best sewn cow hide leather, ⅞ inch $7.20

Weight per dozen pairs 4 pounds.

RUBBER.

Per Dozen Pairs

No. 20—Bicycle Grips; made all of rubber and extend out beyond the handle bar enough to give a cushion effect to the hands and wrists; put up six pair in a box, with nickel ferrules; weight per dozen pairs, 6 lbs.....$4.00

RUBBER.

BICYCLE.

Per Dozen Pairs

No. 98—Boy Scout Junior Bicycle Grip; made of high grade black rubber with woven steel reinforcement which gives freedom from vibration; reinforced ⅞ inch hole...$7.60

Weight per dozen pairs 6 lbs.

One pair in a box.

MOTORCYCLE.

Per Dozen Pairs

No. 30—Motorcycle Grip; made of high grade rubber; made long, and extend beyond end of bar, giving freedom from vibration; woven steel, reinforced 1 inch hole....$12.00

Weight per dozen pairs 12 lbs.

One pair in a box.

TOOL BAGS.

No. 0608.

No. 0620.

Each

No. 0608—Men's best quality brown leather, metal clasps..$0.76

No. 0620—Women's best quality brown solid leather, metal clasps..... .76

Weight each ⅝ lb.

Each

No. 0610—Solid leather, sewed ends; straps, buckles and metal clasps; 7½x2⅝x1¾ inches; weight each, ⅝ lb...$0.76

PEDALS.

BICYCLE.

MEN'S.

PIRATE.

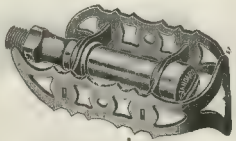
Per Pair

No. 30—Pirate; competition men's rat trap; ½ inch by 20 thread; similar to Bridgeport; weight per pair, 1 lb.....**$1.40**

One pair in a box.

STANDARD.

These pedals are thoroughly well made with high grade bearings throughout. They are subject to a most rigid inspection and will be found satisfactory in every particular.



NO. 1 STANDARD MEN'S RAT PEDAL.

Per Pair

No. 1S—Standard; Rat Trap pedals; threaded, ½x20, right and left; weight per pair, 1¾ lbs.....**$1.70**

One pair in a box.

ROADSTER.

Per Pair

No. 5 — Pirate. Men's non-slipping corrugated rubbers, made large enough to fit any foot...**$1.90**

Wgt. per pair 2 lbs.

One pair in a box.

MOTORCYCLE.

Has the broad tread and non-slipping corrugated rubbers so much desired. In every detail it is of the highest quality.

Per Pair

No. 3M—Threaded ½x20 right and left will fit any motorcycle; wgt. per pair, 2½ lbs.....**$3.00**

One pair in a box.

WOMEN'S.

TORRINGTON.

A narrow tread pedal, designed for ladies and juvenile wheels.

Per Pair

No. 2T—Torrington; women's non-slipping corrugated rubber; weight per pair, about 1 lb.....**$2.30**

One pair in a box.

STANDARD.

Rat trap pattern, with rubber plates.

Per Pair

No. 2S—Standard; women's pedal; threaded, ½x20, right and left; weight per pair, about 1 lb.....**$2.00**

One pair in a box.

PEDAL RUBBERS

MOTORCYCLE.

Broad tread and non-slipping corrugations. Highest quality rubber.

Per Dozen

No. MR—Standard width.....**$1.20**

Weight per dozen, 3 lbs.

One-third dozen in a box.

PEDAL AXLES.

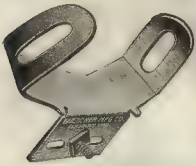
MOTORCYCLE.

Per Dozen.

No. 200—Standard size, hardened steel, nickeled and polished, standard threads, ½x20 R. and L.; weight per dozen, 3½ lbs.....$2.80

TOE CLIPS.

BUESCHER.



This toe clip holds the foot firmly, and it is exceedingly easy to get the foot in and out of. The rearwardly projecting horns which rest on the top of the pedal prevents the clip from turning.

Per Dozen Pairs.

No. 3—Buescher Toe Clips, 3¼ in. wide..**$2.80**
Wgt. per doz. pairs, 3 lbs.

One dozen pairs in a box.

TROUSER GUARDS.

Per Dozen Pairs

No. 14—Perfection; Enameled, flat spring steel; weight per doz., 1 lb.....**$0.80**

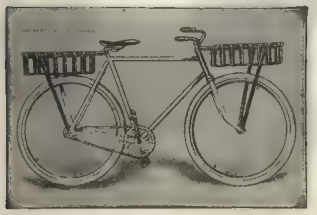
Per Dozen Pairs

No. 11—Ostergren; enameled; wgt per doz., 1 lb... **$0.90**

Three dozen in a box.

LUGGAGE CARRIERS.

WEEBERS'.



A strong practical basket or carrier. Especially designed for delivering. Made of heavy band iron and will support heavy loads, can be used on either the front or rear of a bicycle. Finished in fine black enamel.

Each

No. WC—Weebers' carrier, size 16½x10¼ in. Wgt. each, 5 lbs **.$3.20**

LUGGAGE CARRIERS. 5421

SIMPLEX

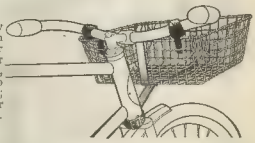
An exceptionally strong and efficient carrier. The frame is made of ½ x No. 12 steel; the legs of ⅝ x No. 13 steel; the ribs of No. 9 round wire. All parts are electro welded making the top practically one piece of metal.

Each

No. 242—Luggage Carrier; size of top, 8½x15½ inches; weight, each, 1 lb.....**$0.70**

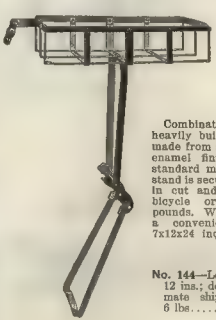
ANDROCK.

Fastens securely to the wheel with strong leather straps; cannot jar loose from the wheel, and is adjustable to any length head; just the thing for delivering packages.



Each

No. 40—Made of No. 15 wire, 1 inch mesh; size, 10x15x4¾ inches. Weight each, 1¼ lbs.....**$1.30**



Combination carrier and stand; heavily built and easily attached; made from strong strap steel, black enamel finished. The basket is standard market basket size. The stand is securely attached as shown in cut and will easily support a bicycle or man weighing 175 pounds. When not in use folds into a convenient shipping package 7x12x24 inches.

Each

No. 144—Length, 18 ins.; width, 12 ins.; depth, 4 ins.; approximate shipping weight each, 6 lbs.....**$3.20**

BICYCLE STANDS.

QUICK FOLDING.

Constructed of channel steel of great stiffness. Automatically supports itself without mud guard clip. Cannot rattle or fall when bicycle is in motion.

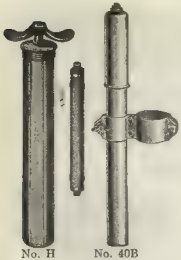
A kick raises or lowers it.

Each

No. 61—Bicycle Stand; black enamel finish.....**$0.70**

PUMPS.

BICYCLE.



No. H No. 40B

Per Dozen

No. H—Hand Pump; brass, nickel plated; removable connection; will fit any tire; dimensions, 1¼x5½ inches; weight per doz., 2¼ lbs. **$3.60**

In bulk.

No. 40B—Telescope Frame Pump; telescope handle; adjustable to frame; dimensions, ⅝x10 inches; weight per dozen, 6 lbs **9.60**

One in a carton.

No. 40C — Connections for No. 40B pump . . . **1.60**

No. 1. No. 2BB.

Per Dozen

No. 1—1¼x12 inches; seamless steel cylinder; screw cap; cast base (which screws off); full nickeled; weight each, 1¾ lbs. **$8.70**

No. 2BB—1¼x12 inches; genuine Bridgeport cast base; brass cylinder, polished and nickel plated; weight each, 1¾ lbs. **10.00**

In bulk.

No. M36

MOTORCYCLE.

Each

No. M36—Motorcycle Telescoping Pump; made of seamless brass tubing, nickel plated; length, 18½ inches; diameter, 1 inch; weight each, 1½ lbs. **$1.60**

In bulk.

PUMP HOSE.

Per Dozen.

No. 12—Pump Hose. Complete with swivel, length 12 inches **$1.92**

PUMP CONNECTIONS.

SWIVEL K

Per Dozen

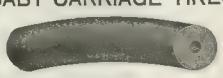
No. 11—Swivel in one piece, fits all tires, positively air tight; weight per dozen, ¼ lb... ... . **$0.96**

HAND PUMP.

Per Dozen

No. 1—Standard Hand Pump Connections, with nickel plated ends..... ... . **$0.80**

BABY CARRIAGE TIRES.



This satisfies a demand for a round tire that will fit a wheel with a concave rim, such as are required by baby carriages, go-carts, velocipedes, tricycles, invalid chairs, etc.

Inches	⅝	⅞	½	⅝
Weight, per 100 feet, lbs.	7	10	13	20
Per foot	$0.06	.09	.11	.14

In bulk.

CYCLOMETERS.

BICYCLE.

Veeder

No. 3. Spoke Clips. No. 1.

Per Dozen

No. 1—**Veeder;** regular; capacity, 10,000 miles; weight, 1 oz.; for 26, 28 and 30-inch wheels..... ..... **$24.00**

No. 3—**Veeder;** Trip; capacity, 10,000 miles; weight, 2 oz.; for 28-inch wheel only..... ..... **48.00**

No. 10—Veeder Spoke Clips; used on Veeder and other cyclometers..... . . . . **3.00**

BICYCLE LOCKS.

SPROCKET.

Per Dozen

No. 4066—2 inch steel case; ivory black finish..... **$2.80**

Weight per dozen 1¾ lbs.

One dozen in a box.

Per Dozen

No. K6N—1¾ inch steel case, brass spring shackle, 2 levers..... **$5.00**

Weight per dozen 1¾ lbs.

Half dozen in a box.

Per Dozen

No. KS4J—Yale sprocket, spring shackle, 2 keys..... **$6.00**

Weight per dozen 1¾ lbs.

Half dozen in a box.

Per Dozen

No. 790—Bronze metal, spring opening, self locking..... **$11.50**

Weight per dozen 6 lbs.

One dozen in a box.

CHAIN.

Per Dozen

No. KS7J—1¾ inch wrought metal, 2 levers, 12 inch nickel plated chain **$10.00**

Weight per dozen 2½ lbs.

Half dozen in a box.

Per Dozen

No. 1903BC—1¼ inch copper, blacked; steel shackle, brass case, self-locking, 10 inch chain, steel keys..... **$8.80**

Weight per dozen 1 lb.

One dozen in a box.

Per Dozen

No. 7080—1 inch bronze metal case, polished, 10 inch brass chain..... **$7.00**

SHACKLE.

Per Dozen

No. 534BS—For locking spokes to fork; 2 inch pressed steel case; 4½ ins. from inside of case to inside of shackle; lever and tumbler construction; two steel plated keys..... **$9.60**

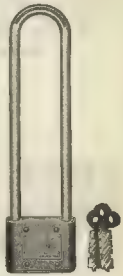
Weight per doz 5½ lbs.

One doz in a box.

MOTORCYCLE.

FIT ALL MAKES OF MACHINES.

Tiger, No. 76M.



Yale, No. 2565.

Will absolutely lock a motorcycle, shackle encircles both tubes and front fork thus preventing wheel from turning, may be carried in tool bag or pocket.

Per Dozen

No. 76M—Tiger; four lever, length over all, 8¼ inches; complete with two keys; weight per dozen 6 lbs... **$11.50**

No. 2565—Yale; 2 inch, steel case, specially treated to prevent rusting; interior parts of brass; shackle of hard steel; nickel plated; length over all, 8¼ inches; complete with 2 steel nickel plated keys; weight per dozen 12 lbs..... **33.00**

One in a box.

BICYCLE RIMS.

Experience with the demands of the trade has decided us to carry a complete assortment of stained and enameled rims
We guarantee the rims to be only of the highest grade, made of carefully selected and well seasoned maple, bent and shaped by the most improved machinery, making them absolutely true to size. Less labor for the wheel builder, hence a very great saving.
The rim makers have so designed their rims that they readily conform to the 1¼ and 1⅜ inch tires, thus doing away with the necessity of the dealers carrying two sizes of each style in stock.

WOOD FOR CEMENTED TIRES.

REGULAR, NATURAL FINISH.

	Per Pair
20 inch—Undrilled only	**$2.40**
24 inch—Undrilled, 24 or 28 holes	**2.40**
26 inch—Undrilled, 28 or 32 holes	**2.40**
28 inch x 1½-5/6—Undrilled, 28, 32 and 36 holes	**2.40**

Approximate weight per pair, 2½ lbs.

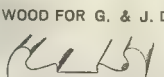
ENAMELED FINISH.

28x1¼-5/6, 32 and 36 holes only.

	Per Pair
No. M304—Black with red sides	**$2.70**
No. M303—Black with red center	**2.70**
No. M307—Black with gold stripes	**2.70**
No. M302—Black with blue center	**2.70**
No. M310—Aluminum	**2.70**

Approximate weight per pair, 2½ lbs.

WOOD FOR G. & J. DOUBLE CLINCH TIRES.



	Per Pair
28 inch x 1¼-5/6—32 or 36 holes	**$2.70**

G. & J. ENAMELED FINISH. DOUBLE CLINCH.

	Per Pair.
No. DC303—Black with red center 28 inch x 1¼-5/6; 32 and 36 holes only	**$3.00**

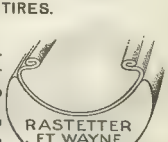
Approximate weight per pair 2½ lbs.

STEEL LINED FOR G. & J. SINGLE CLINCH TIRES.

28x1¼-1⅝, 32 and 36 holes only.

	Per Pair
No. SC303—Black with red center	**$3.30**
No. SC307—Black with gold stripes	**3.30**
No. SC310—Aluminum	**3.30**

Approx. weight per pair 2½ lbs.



WHEELS, BUILT UP AND TRUED.

WITHOUT TIRES.

Best quality spokes and nipples. Any size rear sprocket; any finish. Rims in any size, 24, 26, 28.

FRONT.

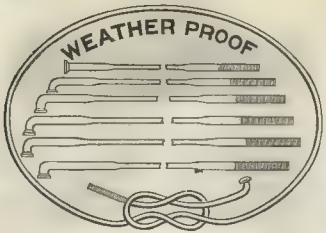
	Each
No. 1—Front wheel with New Departure hub and natural finished rim for cemented on tires	**$3.60**
No. 2—Front wheel with New Departure hub and enamel cement rim or G. & J. natural finished rim	**3.80**
No. 3—Front wheel with New Departure hub and steel lined enameled rim for single clinch tires	**4.10**

REAR.

	Each
No. 4—Rear wheel with New Departure plain hub and natural finished cement rim	**$5.00**
No. 5—Rear wheel with New Departure plain hub and enameled rim for cement rim or G. & J. natural finished rim	**5.20**
No. 6—Rear wheel with New Departure plain hub and steel lined enameled rim for single clinch tires	**5.50**
No. 7—Rear wheel with any make of coaster brake and natural finished cement rim	**9.80**
No. 8—Rear wheel as above except with enameled rim for cement tires or natural finished G. & J. rim	**10.10**
No. 9—Rear wheel as above except with steel lined enameled rim for single clinch G. & J. tires	**10.30**

Approximate weight each, 3 lbs.

WEATHER PROOF BRAND.



Weather Proof spokes bearing this trade mark are made of No. 1 wire, and special care is taken in selection, and in every operation that is put upon them. The nickel plating is of the best. They are packed in separate boxes of 100 spokes and nipples each. Climatic conditions will not in any way affect them. They are fitted with perfect fitting ⅝ in. nipples.

Length 12½ inches. For 28 inch wheel.

No.	Gauge.	Length.	For	All sizes
4	14x16	13¼ in.	30 in wheel	
5	14x16	12¼ in.	28 in. wheel	
6	14x16	12⅛ in.	28 in. wheel	
7	14x16	12 in	28 in. wheel	Per 100....$2.00
8	14x16	11¾ in.	28 in. Crescent wheel	
9	14x16	11 in.	26 in. wheel	Per 1000 ..18.00
10	14x16	10 in.	24 in wheel	
10½	14x16	8½ in.	20 in wheel	
11	13x15	12⅛ in.	28 in. wheel	

Per Box

No. 16—Same as No. 6, put up 1000 in a box. $20.00

Weight per hundred 2 lbs.

DIAMOND E BRAND.

TRADE <E> MARK

Every spoke branded. 100 spokes and nipples in a box.

Per 100

No. 20—14x16 gauge, 12⅛ inches long.....$2.80
No. 21—15x17 gauge, 12⅛ inches long, 080 nipple..... 2.80

MOTORCYCLE, SPECIAL DIAMOND E.

Per 100

No. 135-110—Length 10⅞ inches.....$6.50

Weight per hundred 2½ lbs.

WOOD RIM NIPPLES.

Per 100

Wood Rim Nipples—Nickel plated, 56 thread 14 gauges....$1.00

NIPPLE WASHERS.

Plain.

Saw Tooth.

Per 1000

No. 1—Nipple Washers; saw tooth.. .....$0.90
No. 4—Nipple Washers; plain.... 80

NIPPLE WASHER PRESSES.

Each.

No. NWP—Only practical tool made for this work. Rim bed covered with leather and will not injure rims. A good, substantial tool and weighs 4½ pounds.....$2.70

Wtg. each 3½ lbs.

NIPPLE GRIPS.

VICTOR.

Per Dozen.

No. 5—Nickel plated, fits all sizes of nipples. Is concaved to clear rim $2.00

Weight per dozen, 1 lb.

One dozen on a card.

TAGGART.

Per Dozen.

No. 30—For all sizes of nipples..$2.20

Weight per dozen, 1 lb.

One dozen on a card.

PERFECT.

Made of drop forged steel, case hardened, coil spring between the jaws opens the latter just for the size of nipple, and a turn of the thumb-screw secures a permanent grip on nipple.

Per Dozen

No. 15—Regular size.....$10.00
No. 20—Large, for repair shop use..... 12.00

Weight per doz. 3 lbs.

DIAMOND ROLLER.

Each

No. 61—Diamond, polished **hard rollers,** hard steel bushings (not split), hard rivets, full polished **blue sides,** hammered edges ⅛ or $\frac{7}{64}$ inch, 56 ins. long, 1 inch pitch.....$2.80

Weight, each 1 lb. One in a box.

Each

No. 65—Diamond Roller Chain ⅛ or $\frac{7}{64}$ in. wide, 56 ins. long, ½ in. pitch, otherwise same as No. 71.....$3.00

Weight, each 1 lb. One in a box.

DIAMOND BLOCK.

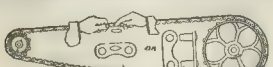
Each

No. 9$\frac{7}{64}$—Pitch, 1 inch; width, $\frac{7}{64}$ inch; rivet, 11/64 inch; polished **straw tempered** B blocks, 060 thick, 56 ins. long.....$2.60

No. 9¼—Same as above, but ¼ inch wide..... 2.90

Weight each 1 lb. **One in a box.**

DIAMOND CONNECTING LINKS.



A simple and effective device, superseding bolt and nut. Removable link is odd (either perforated or plain), all others are riveted.

Retail price, 10 cents per box (2 links). Order by number.

	Per Dozen
No. 0—⅛x1 1/64, for block chains.....	$1.70
No. 1—$\frac{7}{64}$x1 1/64, for block chains.....	1.70
No. 2—⅛x1 1/64, for block chains.....	1.70
No. 5—⅛x1, for No. 71 roller chains.....	2.16
No. 6—$\frac{7}{64}$x1, for No. 71 roller chains.....	2.16
No. 9—$\frac{7}{64}$x½, for No. 75 roller chains.....	2.16

MOTORCYCLE.

DIAMOND.

Accurate—Strong—Durable.

Designed to meet the harder service conditions on the higher powered two-speed motorcycles. Heavier rollers—broader side bars—materials of special analysis—scientific heat treatment, and each chain tested to a fixed high standard for accuracy and strength make the new Diamond an unexcelled chain for every motorcycle service.

Special alloy steel rollers, hard steel bushings (not split), hard rivets; full polished blue sides, with beveled edges. Reamed holes.

Per Foot

No. 149—Width, ⅜ inch; roller, .400 in. diam.; nickel steel rivet, .200 in. diam.; ultimate strength, 3,000 lbs.....$1.24

PARTS FOR NO. 149 CHAIN.

	Each
No. 149C—Connecting links.....	$0.20
No. 149R—Roller link.....	.16
No. 149SE—Single end connecting link, consisting of one each connecting and roller link.....	.36
No. 149DE—Double end connecting link, consisting of one roller link and two connecting links.....	.56
No. 149O—Offset link.....	.36
No. 149CO—Combination Offset link, consisting of one each connecting, offset and roller link.....	.76
	Per Dozen
No. 149S—Springs for connecting links.....	$0.44

DUCKWORTH.

Straw tempered, nickel steel rollers, side links of high grade steel, specially treated.

Per Foot

No. 70—Width, ¼ inch; ⅝ inch pitch; rivet, .200 in. diam.....$1.00

PARTS FOR NO. 70 CHAIN.

	Per Dozen.
No. 70O—Offset links.....	$2.90
No. 70C—Connecting links.....	1.60
No. 70SE—Single repair links.....	2.90
No. 70DE—Double repair links.....	4.30
No. 70S—Connecting spring.....	.32
No. 70A—Assembled block.....	1.20

CHAIN PARTS.

BICYCLE.

For chains with $\frac{11}{64}$ diameter rivets.

	Per 100
Blocks—Fig. B, $\frac{7}{64}$ and ¼.....	$1.25
Chain Sides—Fig. B, blued.....	.55
Chain Rivets—Fig. B, $\frac{7}{64}$ and ¼.....	.30
Chain Bolts—Fig. B, $\frac{7}{64}$ and ¼.....	1.25
Chain Bolt Nuts—Fig. B.....	1.20
Chain Sides—Fig. B, **threaded**.....	.70

CHAIN GRIPS.

DUCKWORTH.

Makes the hard and dirty job of connecting a tight chain very easy, without the necessity of readjusting the wheel.

Each

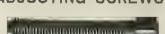
Duckworth Chain Grip—Weight each, 6 oz **$0.44**

CHAIN ADJUSTERS.

Per Dozen Pairs

Chain Adjuster—Made of wrought steel, **nickel plated,** complete.....**$1.60**

ADJUSTING SCREWS.



Square head, nickel plated.

Per Dozen

No. 1—2x¼, 24 thread.....**$1.44**
No. 3—2x7/32, 28 thread..... 1.44
No. 1½—2x¼, 24 thread..... 1.44

CHAIN TOOLS.

THE BEAN.

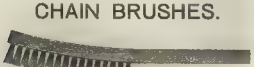
This tool is especially designed to remove rivets from motorcycle chains. It is not necessary to file rivets. The rivet punch with stub steel ends forces rivets through side plate by turning up on handle.

Each.

BCT—Bean Chain Tool. **$1.00**

Weight, each, ½ lb
One in a box.

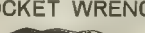
CHAIN BRUSHES.



Per Dozen

No. 4—Double row of bristles; for cleaning tires, chain, rame for rim; weight per dozen 1¼ lbs.....**$3.00**

SPROCKET WRENCHES.



Per Dozen.

No. 15—A sprocket can be tightened or loosened in a second of time, without scratching or otherwise marring the nickel. This wrench will handle 7, 8, 9 and 10 tooth sprockets. Malleable iron, enameled.....**$8.40**

Weight per dozen 4 lbs.

CHAIN LUBRICANTS.

DIXON'S.

Will not lubricate the chain and sprockets, but thoroughly lubricates the pivots or pins holding the links of the chain.

Per Dozen

No. 692—Dixon's Graphitoleo.....**$1.80**

Weight per dozen, 2 lbs.
In collapsible tube, 4x¾ inch.

No oil to smear, no grease to hold dirt.

Per Dozen.

No. 679—Dixon's Graphite.....**$1.80**

Weight per dozen, 2½ lbs.
In wood box.

BICYCLE OILERS.

Per Dozen

No. 3—New Era; nickel plated; weight doz., ½ lb.....**$1.70**

One dozen in a box.

Per Dozen

No. 1—Star; nickel plated, strong spring, protected washer; weight per dozen, ½ lb. **$3.80**

One dozen in a box.

Per Dozen

No. 2—Perfect; nickel plated, with Acme top, positively will not leak; weight per doz., ½ lb **$5.00**

One dozen in a box.

MORROW.

The Morrow was the first successful and satisfactory Coaster Brake for bicycles, and it is today the best known of any coaster brake in the world.

It is made of the finest material throughout, by skilled mechanics who have worked on coaster brakes since the beginning of the business.

The Morrow is absolutely reliable as a brake and as a coaster.

Made for 32 and 36 spokes; 8, 9 or 10 tooth sprockets; for ⅞ or ½ inch chain. Prices do not include spokes or nipples. Size of spokes required, 12½ inch, 14x16.

	Each
Morrow—Without rim, 1½ or 1⅝ inch chain line	**$7.50**

One in a box. Weight each, 3 lbs.

NEW DEPARTURE.

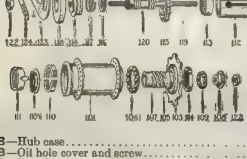
This is the latest model and will be found very much improved. The brake drum is of one solid piece of steel, no parts to be screwed in, solid hubs, both coasting and drawing bearings are adjusted by cone at sprocket side. The brake is composed of three split rings, which are expanded into frictional contact with brake drum.

Furnished with 7, 8, 9, 10x1½, ⅞ and ¼ inch sprockets; 1½, 1⅝ and 1¾ inch chain line.

	Each
New Departure	**$7.50**

One in a box. Weight each, 4 lbs.

PARTS FOR NEW MORROW MODEL 1905.



	Each
No. 101B—Hub case	**$1.25**
No. 102B—Oil hole cover and screw	**.05**
No. 103B—Sprocket	**.35**
No. 104B—Sprocket lock nut	**.10**
No. 105B—Sprocket dust cap	**.10**
No. 106B—Ball retainer, sprocket side	**.15**
No. 107B—Driving screw	**.75**
No. 108B—Axle cone, adjusting	**.25**
No. 109B—Ball retainer, for axle cone	**.10**
No. 110B—Clutch rings, per pair	**.40**
No. 110½B—Clutch retainer ring	**.10**
No. 111B—Nut and sleeve expander	**.50**
No. 112B—Brake sleeve	**.75**
No. 113B—Sleeve expander, with teeth	**.40**
No. 114B—Cone, arm side	**.40**
No. 115B—Ball retainer, arm side	**.20**
No. 116B—Retarder washer	**.10**
No. 117B—Retarder spring	**.12**
No. 118B—Dust cap, arm side	**.10**
No. 119B—Axle	**.20**
No. 120B—Axle bushing	**.18**
No. 121B—Wire stop (underneath axle bushing)	**.06**
No. 122B—Axle nut	**.05**
No. 123B—Arm	**.20**
No. 124B—Arm clip, complete	**.10**
No. 125B—Balls, ¼ inch, each	**.01**
No. 126B—Wrench	**.10**
No. 127B—Washer for lost motion	**.10**

Sprockets are furnished in 7, 8, 9, 10, 11 and 12 tooth, for ½, ⅞ and ¼ inch chains.

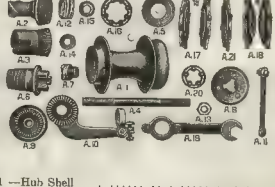
By reversing the sprocket on the New Morrow, chain line can be changed from 1½ to 1⅝ and vice versa.

In ordering parts for the New Morrow, use the numbers given in the price list of parts, taking care to always use the letter "B" in connection with the number.

PARTS FOR NEW DEPARTURE CO.

MODEL A.

New 1915 parts are interchangeable with all models since 1903.



	Each
No. A1—Hub Shell	**$1.75**
No. A2—Driver	**.90**
No. A3—Clutch Sleeve	**.40**
No. A4—Axle	**.25**
No. A5—Sprocket Set Nut	**.30**
No. A6—Brake Clutch	**.60**
No. A7—Axle Adjusting Cone	**.25**
No. A8—Brake complete	**.85**
No. A9—Brake Disc	**.40**
No. A10—Brake Arm	**.50**

	Per Set.
No. A12—Transfer Sleeve	**$0.10**
No. A11—Clip, Nut and Bolt	**.10**
No. A17—Sprocket, ⅞ in. offset	**.30**
No. A21—Straight Sprocket	**.30**
No. A18—Sprocket, ⅞ in. offset	**.30**
No. A19—Wrench	**.25**
No. A16—Large Ball Retainer	**.25**
No. A20—Small Ball Retainer	**.15**

	Per Pair.
No. A14—Axle Washer, plain	**.05**
No. A15—Socket Washer	**.05**
No. A13—Axle Nut	**.05**

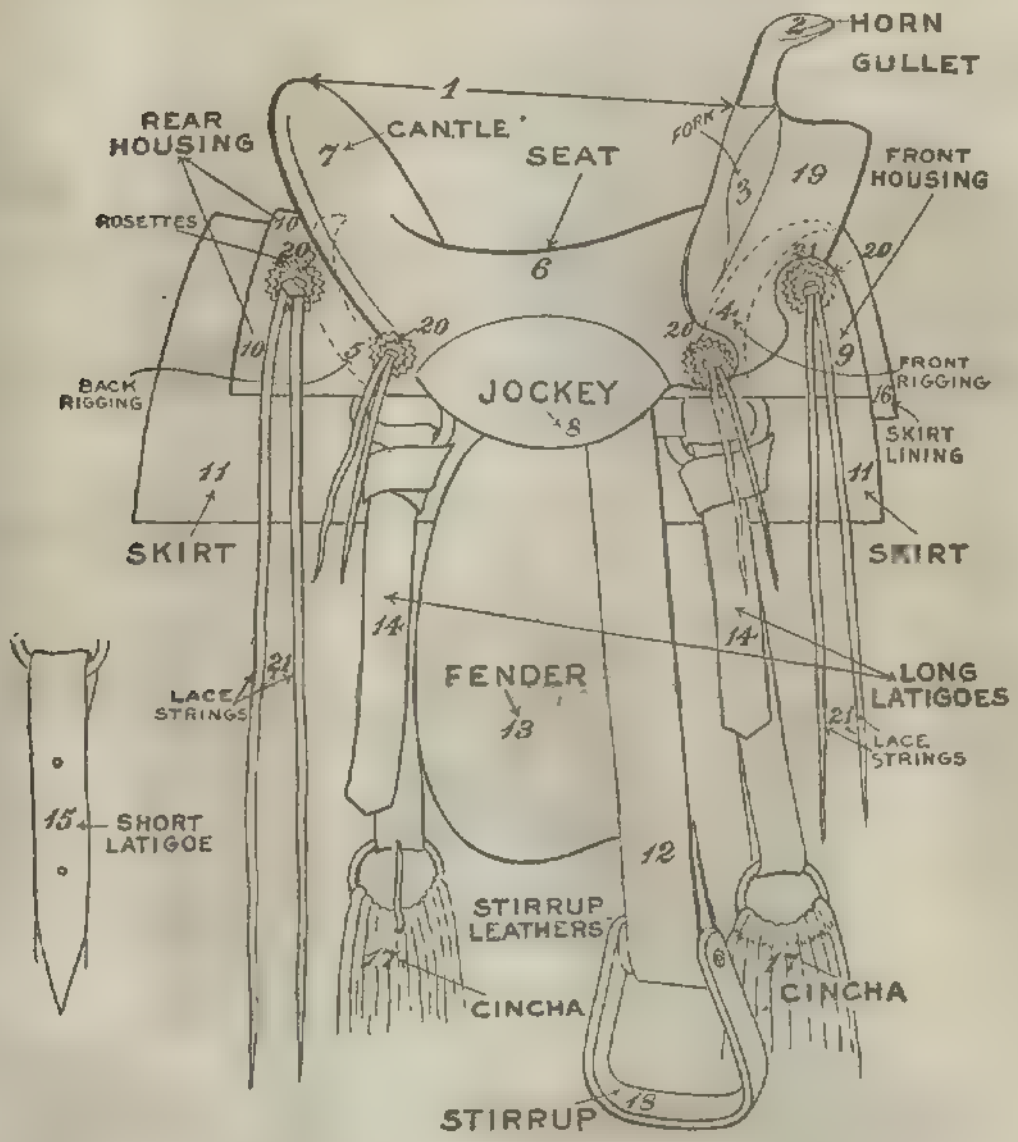
In ordering parts, specify whether they are for "A" Regular or "A" Narrow Brake.

In ordering Hub Shell, always state how many spoke holes are wanted; also precede the number of part with the letter designating the hub for which the part is wanted.

SADDLES

*NORLEIGH DIAMOND

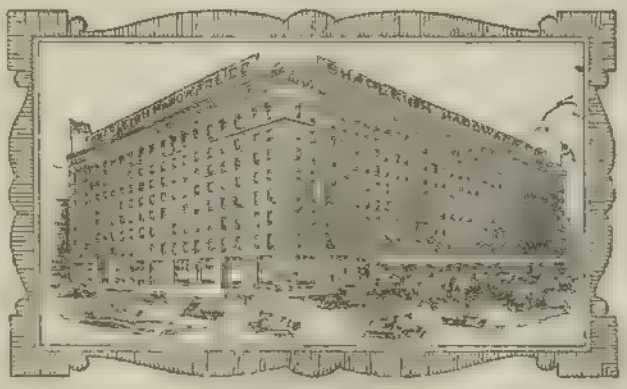
DIAGRAM AND NAMES OF THE DIFFERENT PARTS OF A FULL RIGGED STOCK SADDLE



1—Proper Method of Measuring a Saddle.
2—Horn.
3—Fork.
4—Front Rigging.
5—Back Rigging
6—Seat.
7—Cantle.
8—Jockey.
9—Front Housing.
10—Rear Housing.
11—Skirt.
12—Stirrup Leather
13—Fender.
14—Long Latigoe.
15—Short Latigoe or Off Billet.
16—Skirt Lining.
17 Cinchas or Girths.
18—Stirrups.
19—Gullet.
20—Rosettes or Conchas.
21—Lace Strings.

GOOD SERVICE

"DIAMOND EDGE IS A QUALITY PLEDGE"



SADDLERY

NORLEIGH DIAMOND BRAND

This BRAND is a guide for QUALITY. Select materials of highest grade, expert workmanship, modern construction and styles rank Saddlery among our most important lines.

SADDLES designed for various uses will be found particularly adapted and pleasing.

NORLEIGH DIAMOND HARNESS is made of "Union Tanned" Leather. The name is derived from the tannage which consists of two-thirds hemlock and one-third oak bark. The durable finish of this tannage is finer than straight oak or hemlock tannage. Select hides free from all cuts, scars, marks or brands are taken from native cattle. The cutting and selecting of each piece of Leather is under personal supervision of a specialist in the manufacture of Harness which, together with the equipment of latest and most accurate machinery insures merchandise which will give "GOOD SERVICE".

HORSE COLLARS—"Mike Kinney" Horse Collars have a reputation and are recognized readily where the best is wanted. The other numbers in our line are proportionately good values; our aim being to produce the best quality goods and reduce the cost of same to a minimum. We have our Collars made by one of the best manufacturers whose facilities to meet our views are unexcelled.

In this section will be found Saddlery Accessories, Lap Robes, Dusters, Blankets, Pads, Whips and Saddlery Hardware embracing everything from the exclusive specialties to the most staple items.

MAIL ORDERS GIVEN ESPECIAL ATTENTION.

SHAPLEIGH HARDWARE CO
ST. LOUIS, U.S.A.

STOCK SADDLES

★NORLEIGH DIAMOND

★SECURITY BULGE

"ORIGINATED BY US"

The advantage of the Security Bulge Saddle over all other Saddles, lies in the Shape and Build of the Fork. The Saddle of the Fork extends outward over the Base of it and forms a small, strong Natural Hook for the Right Leg, just where it is best for riding. This gives the Knee a grip which the most violent shaking cannot dislodge. The Fork also sweeps backward, which prevents Rider from striking Horn, and averts any injury from this cause. These Saddles are made by Skilled Workmen of the Best Materials and are guaranteed to be the best in all respects that can be produced for the price.

★NEW TEXAS

Cut shows Rear View of Security Bulge.

★EL PASO

A first class, handsome Saddle with an Indestructible Tree.

Equipped with the Indestructible Hays Endless Steel Wire Cable Rigged Tree, plain Pommel and Plain Round Cantle and Front. All appointments are strictly first class. Best Oregon or Colorado stock. Hand Stitched Stamped Border.

	Each
No. 932—Double Rig; Weight 38 lbs.	**$154.00**

SPECIFICATIONS

Tree—15 inch, Beefhide, Cable Rigged, 15 inch Swell Fork.
Skirts—14 by 29 inches. Woolskin lined.
Fenders—9 by 18 inches.
Stirrup Leathers—3 inches.
Short Latigoes—2 inches.
Long Latigoes—1¾ inches.
Rigging—Hays Endless Steel Wire Cable.
Girths—No. 1 combination Fish Cord and 3 Ply Belting Web, Leathered ends.
Stirrups—Brass Bound Visalia, with Leather Foot Rest.

This is a very handsome Saddle with First Class Appointments. It has 4 Plies of Steel Strengthening Zig-zag over Rear Tapaderos, Fleece Lined Skirts, 3 inch Stirrup Leathers, good Tie Straps and Latigo Boots, Combination Girths, with Leather Foot Rest, all stock of liberal dimensions and well chosen Quality, safe and durable Saddle.

	Each
No. 71—Double Rig; Weight about 31 lbs.	**$120 00**

SPECIFICATIONS

Tree—15 inch, Hide Covered; No. 4 Security Bulge.
Skirts—13½x27 inches; Wool Lined.
Fenders—9½x17½ inches.
Stirrup Leathers—3 inches.
Billets—1¼ inches.
Ties—1¾ inches.
Back Rigging—1¾ inches.
Front Rigging—2½ inches.
Girths—No. 2 Combination.
Stirrups—2 inch Best Ox Bow.
Fork—13½ inch Swell.

One in a Box

STOCK SADDLES
★NORLEIGH DIAMOND

★MISSOURI

An Extra Good and Strong Saddle. All Stock Generous Dimensions and well selected; Neatly Decorated, Wide Heavy Strapping.

Each

No. 68—Double Rig; Weight about 26 lbs **$98.00**

SPECIFICATIONS

Leather—Fine Quality California Steer Hide; Russet Color; Fancy Hand Stamped Decorations.
Tree—Cherokee Special, Extra Wide Steel Bridge, Cinch Seat, Steel Fork; Beef Hide Covered.
Horn—Steel; Covered with Cow Neck Wrapped with Horn String of White Lace Leather.
Skirts—26 inches Long, 13 inches Deep; Heavy Tanned Russet Leather; Heavy Felt Lined; Round Corners.
Cantle—Broad and Straight, Rawhide Bound.
Seat—Made Solid with [illegible] Jockey Seat, One Piece.
Stirrup Leathers—[illegible] inches Wide, Double Plait Pattern.
Fenders—15½ inches Long; 8 inches Wide; Fancy Hand Stamped Decorations
Long Latigoes—[illegible] inches Wide.
Billets—1¾ inches [illegible]
Cinchas—Extra Fine Mexican Hair.
Stirrups—Heavy Oak Bow; Leather Foot Pieces.
Conchas—Brass
Rosettes—Leather

One in a Box

STOCK SADDLES
★NORLEIGH DIAMOND

★BRONCO BILL

This is the latest model of "Broncho Bust[illegible] light weight but strong pattern. The tree is very strong, [illegible] Seat is very high in front with a short, [illegible] which is broad and flat, making with the wide bulge fork an extra [illegible] and very comfortable seat. New design fan shaped, hand [illegible] Rawhide bound and rawhide braided horn. All mate[illegible] saddle are of the best.

For a classy, up-to-date, strong, comfortable saddle this one is the "Best Ever."

Each

No. 943—Double Rig, Weight 32 lbs. **$120 00**

SPECIFICATIONS

Tree—14½ inch, hide covered, Bronco Bill, 15½ in[illegible] Swell Fork.
Skirts—13½ by 27 inches, Round Corner, Woolskin Lined
Stirrup Leathers—3 inches.
Fenders—9½ by 17½ inches.
Short Latigoes—1¾ inches.
Long Latigoes—1¾ inches
Rigging [illegible] Inch Front
Cinchas—18 strand, California Angora Hair.
Stirrups [illegible], best Ox Bow.
Fork [illegible] Swell
Weight—32 lbs.

One in a Box

STOCK SADDLES
*NORLEIGH DIAMOND

*SUNSET BULGE

This is a Handsome Saddle with Wide Swell Fork Tree of the Latest Style and Shape. Well Proportioned and Very Strong

Each

No. 69—Double Rig; Weight about 25 lbs **$80.00**

SPECIFICATIONS

Leather—Best Selected California, Russet Color; Basket Stamp Decoration.

Tree—San Quentin, Extra Wide 12 inch Swell Bulge Bucking Roll, 15 inch Seat; Steel Fork, Beef Hide Covered.

Horn—Steel; Covered with Cape Neck Wrapped with Horn String of Yellow Lace Leather.

Skirts—26 inches Long, 12 inches Deep; Heavy Tanned Russet Leather Felt Lined.

Cantle—Broad and Straight; Plain Leather Bound.

Seat—Made Solid with Cantle and Jockey all in One Piece.

Double Rig—Front Rig 2½ inches Wide; Back Rig 1½ inches, in One Piece around Bar.

Stirrup Leathers—3 inches Wide; Fancy.

Fenders—9 inches Wide, 16 inches Long; Basket Stamp Decorations.

Long Latigoes—1½ inches Wide.

Short Latigoes—1½ inches Wide.

Cinchas—18 Strand Texas, Cotton String with Black Japanned Steel Buckles.

Stirrups—2 inch Heavy Wood Ox Bow; Plain, not Covered.

Tie Strings—Oiled Yellow Lace Leather.

Rings—Steel, Leather Covered.

Rosettes—Leather.

One in a Box

STOCK SADDLES
*NORLEIGH DIAMOND

*ROCKY MOUNTAIN

This is a Good Medium Priced Stock Saddle with Wide, Swell Fork. It has Good Stock, Wide Stirrup Leathers and Cinch Rigging. Hood Front, Steel Fork Tree. Liberal Dimensions. Good Value.

Each

No. 73—Double Rig; Weight about 23 lbs **$70.00**

SPECIFICATIONS

Tree—15-inch Steel Fork with 11½-inch Swell Fork.

Skirts—24 inches by 12 inches, Felt Lined.

Seat—And Jockeys in One Piece, Bound Cantle.

Stirrup Leathers—2½ inches.

Billets—1½ inches.

Ties—1½ inches.

Back Rigging—1½ inches.

Front Rigging—2½ inches.

Girths—18 Strand Cotton Texas String

Stirrups—2-inch Ox Bow.

NOTE—Above Saddle can be furnished with Single Rig at Same Price.

One in a Box

STOCK SADDLES
*NORLEIGH DIAMOND

*EHBO

A Strong and Durable Saddle which will please the Rider who is Looking for a Saddle Made for Hard Service. Russet Stock Saddle Tree.

	Each
No. 907—Double Rig; Weight about 24 lbs..	$60 00

SPECIFICATIONS

Leather—Selected California Russet, Nicely Stamped.
Tree—15 inch Steel Fork.
Skirts—12½ inches by 22 inches, Felt Lined.
Stirrup Leathers—2½ inches.
Billets—1⅝ inches.
Ties—1⅝ inches.
Back Rigging—1½ inches
Front Rigging—2¼ inches.
Girths—18 Strand Cotton Texas String.
Stirrups—2 inch Ox Bow.

One in a Box.

STOCK SADDLES
*NORLEIGH DIAMOND

*WELLINGTON

This is an Up-to-date Swell Fork Saddle. It is well Made, Deep Seat, High Cantle, Heavy Strapping.

	Each
No. 104—Double Rig; Weight about 20 lbs	$57 00

SPECIFICATIONS

Leather—Fine California Russet Stock.
Tree—15 inch Kansas Iron Fork.
Skirts—11½ inches by 22 inches, Felt Lined.
Stirrup Leathers—2½ inch Double Ends.
Billets—1½ inches.
Ties—1⅜ inches.
Back Rigging—1¾ inches.
Front Rigging—2 inches.
Girths—18 Strand Cotton Texas String.
Stirrups—2 inch Ox Bow.
Fork—11 inch Swell.

One in a Box.

STOCK SADDLES

*NORLEIGH DIAMOND

*OAKLAND

Each

No. 906—Double Rig; Weight about 23 lbs.....$48 00

SPECIFICATIONS

Leather—Selected California Stock, Nicely Stamped; Russet Color.

Tree—1 inch Seat; Iron Neck.

Horn—Steel, Leather Covered.

Skirts—24 inches Long, 13 inches Deep, Felt Lined.

Fenders—7 inches Wide, 15 inches Long.

Stirrup Leathers—2 inches.

Billets—1½ inches.

Ties—1¾ inches.

Back Rigging—1½ inches.

Front Rigging—2¼ inches.

Girths—16 Strand Texas Cotton String

Stirrups—2 inch Ox Bow.

Bulge—11½ inches.

One in a Box

STOCK SADDLES

*NORLEIGH DIAMOND

*RED HAWK

Each

No. 108—Double Rig; Weight about 16 lbs.....$45 00

SPECIFICATIONS

Leather—Heavy Saddle Stock, Russet Color.

Tree—14½ inch Steel Fork, 10 inch Swell.

Horn—Steel Leather Covered.

Skirts—11 by 20½ inches, Felt Lined.

Fenders—7½ inches wide; 14 inches long.

Stirrup Leathers—1¾ inches.

Latigoes—1 inch.

Ties—1 inch.

Cinchas—16 strand Texas Cotton String.

Back Rigging—1½ inch.

Front Rigging—1¼ inches.

Girths—16 Strands Texas Cotton String.

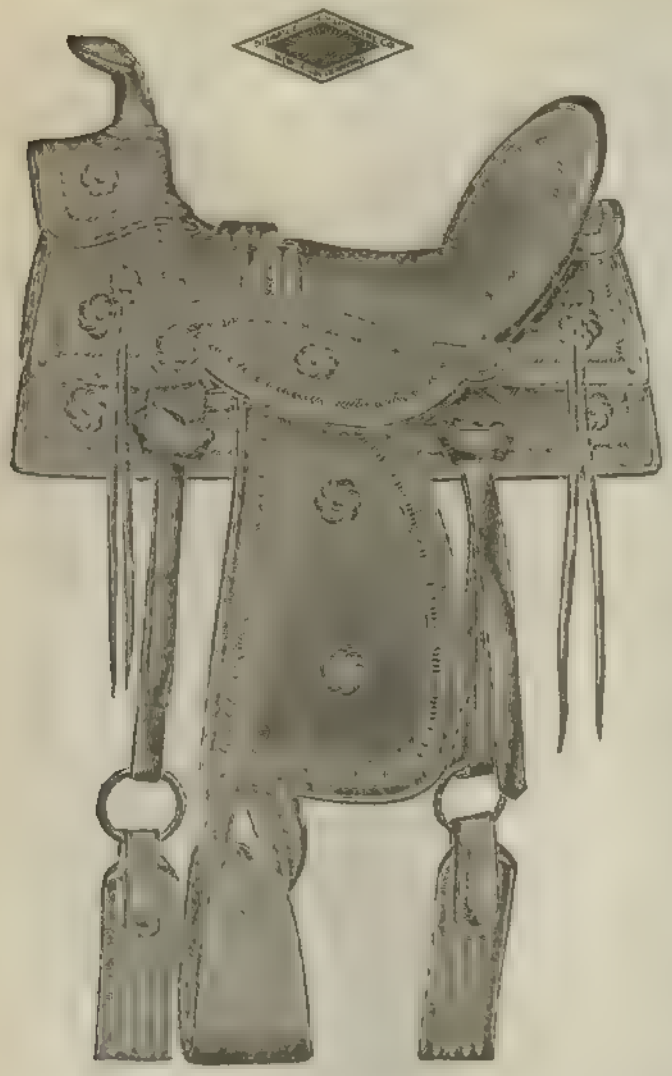
Stirrups—4 inch Solid Bent.

Bulge—1½ inches.

One in a Box

STOCK SADDLES

*NORLEIGH DIAMOND



*MUSTANG

	Each
No. 19—Double Rig; Weight about 14 lbs.	$30 00

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Hand Stamped Decorations and Border.
Tree—Bevel; 14 inch Seat; Steel Fork.
Horn—Steel; Covered, with Leather Cap.
Skirts—20 inches Long, 11 inches Deep; Russet Tanned Leather; Felt Lined; Hand Stamped Decorations and Border.
Cantle—Straight and Full; Leather Bound.
Seat—Texas Half Style; Broad and Well Shaped; Independent Jockeys, Tacked to Tree.
Double Rig—Solid Strap Front 1½ inches Wide; Back 1½ inches Wide; Back Rigging Running Over Saddle Back of Cantle in One Piece.
Stirrup Leathers—1¾ inches Wide; Hand Stamped Border.
Fenders—7 inches Wide; 13 inches Long, Hand Stamped Decorations and Border.
Long Latigoes—1 inch Wide.
Short Latigoes—1 inch Wide.
Girth—Corded Web with Leather Loops and 2½ inch Japanned Steel Rings.
Stirrups—4 inch Solid Bent Wood; Plain, not Covered.
Tie Strings—Oiled Lace Leather.
Rings—Steel, Russet Enameled.
Rosettes—Leather.

STOCK SADDLES

*NORLEIGH DIAMOND

*LAS VEGAS

	Each
No. 17—Double Rig; Weight about 15 lbs.	$42 00

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Plain Creased Borders.
Tree—Vegas; 14½ inch Seat; Steel Fork.
Horn—Steel; Leather Covered.
Skirts—20½ inches Long, 10½ inches Deep; Russet Tanned Leather; Felt Lined; Plain Hand Creased Border.
Cantle—Straight and Full; Leather Bound.
Seat—Solid; Broad and Well Shaped; Jockey, Cantle and Seat in One Piece.
Double Rig—Front 1 inch Wide; Doubled; Back 1½ inches Wide, Running over Saddle Back of Cantle.
Stirrup Leathers—1¾ inches Wide; Plain Hand Creased Border.
Fenders—7½ inches Wide; 13½ inches Long; Star Center Piece and Plain Creased Hand Creased Border.
Long Latigoes—1⅛ inches Wide.
Short Latigoes—1½ inches Wide.
Cinchas—16 Strand White Cotton Texas String; Japanned Steel Buckles.
Stirrups—4 inch Solid Bent Wood; Plain, not Covered.
Tie Strings—Lace Leather.
Rings—Steel Russet Enameled.
Rosettes—Leather.

One in a Box

ARMY AND STOCK SADDLES

*NORLEIGH DIAMOND

*TRIUMPH

Each

No. 131—Double Rig; Weight about 13 lbs.... $29.00

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock, Russet Color; Hand Stamped Decorations and Border.

Tree—Jefferson; 13½ inch Seat; Steel Fork; Felt Covered.

Horn—Steel; Covered with Leather Cap

Skirts—19 inches Long, 11 inches Deep; Russet Tanned Leather; Unlined, Hand Stamped Decorations and Border.

Cantle—Straight and Full; Leather Bound.

Seat—Solid; Broad, Well Shaped and Comfortable; No Jockeys.

Double Rig—Front Rig attached to Forepiece; Back 1¼ inches Wide; Back Rigging Running over Saddle Back of Cantle in One Piece.

Stirrup Leathers—1½ inch Wide; Plain Strap Looped to Rigging

Fenders—7 inches Wide; 13 inches Long; Hand Stamped Decorations and Border.

Long Latigoes—1 inch Wide.

Short Latigoes—1 inch Wide.

Girth—Cotton Web No. 4, with Leather Loops and Japanned Steel Rings.

Stirrups—4 inch Solid Bent Wood; Plain, not Covered.

Tie Strings—Oiled Lace Leather.

Rings—Steel, Russet Enameled.

Studs—XC Plated Tin.

ARMY AND STOCK SADDLES

*NORLEIGH DIAMOND

GENUINE McCLELLAN

Each

No. 436—Single Rig; Weight about 15 lbs..... $50.00

SPECIFICATIONS

Leather—Best Selected California; Russet Color.

Tree—No. 1 McClellan; 15 inch Seat.

Skirts—18½ inches Deep from Center of Seat; 13 inches Long; Russet Tanned Leather; Stamped Border.

Cantle—Broad and Sloping, with three Coat straps and one Coat Strap on Horn.

Seat—Open Center; Sewed all Around.

Single Rig—1¼ Inches Front and Back; Solid Straps Running over Front and Back of Saddle.

Stirrup Leathers—1¼ inches Wide.

Girth—Corded Web; Combination Buckle and Tie.

Long Latigoes—1¼ inches Wide.

Billets—1¼ inches Wide.

Stirrups—3 inch Covered Wood.

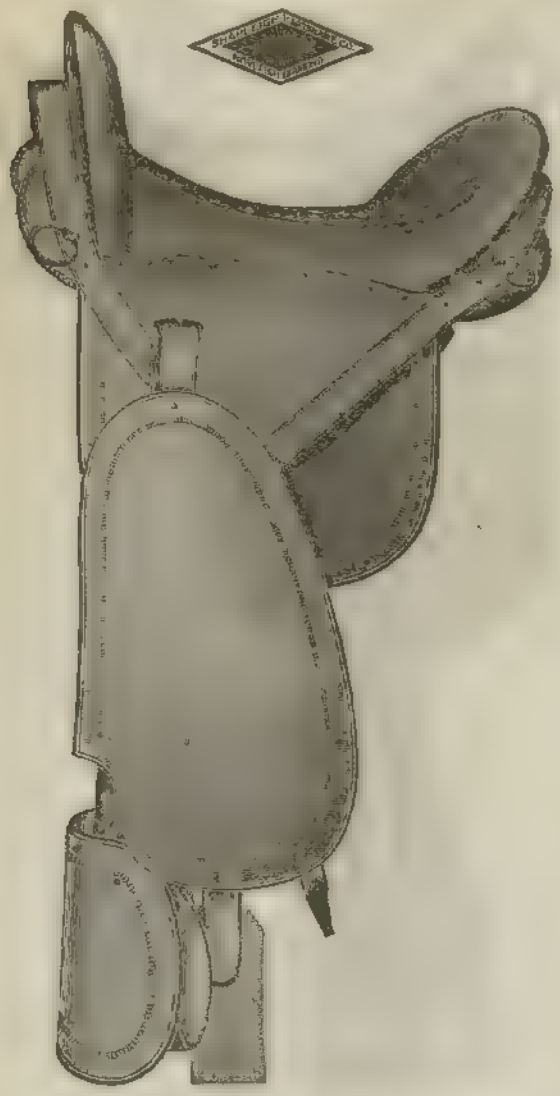
Bars—Leather Covered.

Rings—Steel, XC Plate Tinned.

One in a Box

SADDLES

*NORLEIGH DIAMOND



McCLELLAN

Each

No. 33—Single Rig; Weight about 10 lbs..... **$28.00**

SPECIFICATIONS

Leather—Heavy Selected Harness Stock; Black Color.
Tree—McClellan; 14 inch Seat; Hide Covered; Front and Back Arches.
Skirts—14 inches Deep from Center of Seat; 11½ inches Long; Black Tanned Leather; Stamped Border; Fastened with Screws.
Cantle—Broad and Sloping.
Seat—Open Center; Sewed all Around.
Single Rig—1⅛ inches Front and Back; Front and Back Rigging Straps go Around Tree in One Piece Each.
Stirrup Leathers—1¼ inches Wide.
Girth—Corded Web; with Leather Loops and Japanned Steel Rings.
Long Latigoes—1⅛ inches Wide.
Short Latigoes—1⅛ inches Wide.
Fenders—8½ inches Wide, 15½ inches Long; Hand Stamped Border.
Stirrups—2½ inch Covered Wood.
Bars—Rawhide Covered.
Rings—Steel, Black Japanned.

SADDLES

*NORLEIGH DIAMOND

FERGUSON LEADER

Each

No. 29—Single Rig; Weight about 13 lbs..... **$33.00**

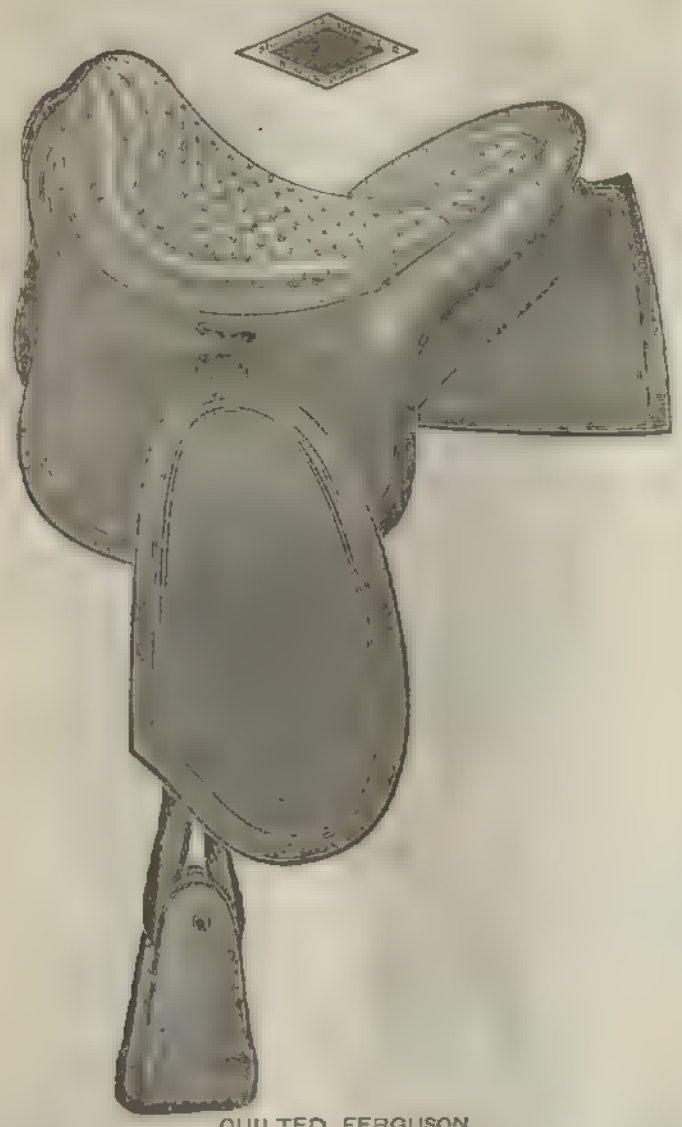
SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color.
Tree—Ferguson; 13½ inch Seat; Leather Covered.
Skirts—11½ inches Deep from Center of Seat; 20 inches Long; Russet Tanned Leather; Stamped Border.
Cantle—Roll; Broad, Full and Sloping.
Seat—Solid; Broad, Smooth and Comfortable.
Single Rig—Front Rigging with Mounting Handle made Solid and Studded to Tree; Back Rigging Running over Saddle Back of Cantle in Two Pieces.
Stirrup Leathers—1⅛ inches Wide.
Girth—Corded Web; with Leather Loops and Japanned Steel Rings.
Fenders—8 inches Wide; 15¾ inches Long; Hand Stamped Border and Decoration.
Long Latigoes—1 inch Wide.
Short Latigoes—1 inch Wide.
Stirrups—4 inch Solid Bent Wood.
Bars—Full Leather Lined.
Housing—Creased Edge; Nickel Plated Studs and ¾ inch Japanned Steel Ring.
Rings—Steel, Black Japanned.

One in a Box

RIDING SADDLES

*NORLEIGH DIAMOND



QUILTED FERGUSON

Each

No. 0214—Single Rig; Weight about 14 lbs $40.00

SPECIFICATIONS

Leather—Heavy Selected Russet Skirts and Fenders; Light Tan Color Calf Skin Seat.

Tree—Ferguson; 14 inch Seat.

Skirts—11 inches Deep from Center of Seat; 20 inches Long; Russet Tanned Leather; Hand Stamped Border; Full Leather Underskirt Pad.

Cantle—Roll; Broad and Full; Padded and Quilted.

Seat—Solid; Soft Light Tan Calf Skin; Hand Quilted and Stuffed.

Single Rig—To Tie; 1⅛ inch Solid Leather Straps, Back Rig in Two Pieces Running over Saddle Back of Cantle; Fork Ring in One Piece Running over Fork

Stirrup Leathers—1½ inches Wide.

Girth—Corded Web; with Leather Loops and Japanned Steel Rings.

Fenders—9¼ inches Wide; 16 inches Long; Creased Border.

Long Latigoes—1 inch Wide.

Short Latigoes—1 inch Wide.

Stirrups—4 inch Solid Bent Wood.

Bars—Full Leather Lined.

Housing—Creased Edge; Stamped Border; Nickel Plated Studs; ⅝ inch Nickel Plated Coat Strap Rings; Housing and Underskirt in One Piece

Rings—Steel, Black Japanned.

RIDING SADDLES

*NORLEIGH DIAMOND

ENGLISH SOMERSET

Each

50—Single Rig; Weight about 8 lbs $23 00

SPECIFICATIONS

Leather—Fine Grade Heavy Oak Tanned Russet Color Skirts and Jockeys, Hogskin Impression; Light Tan Color Calfskin Seat.

Tree—Somerset; 15 inch Seat.

Skirts—18½ inches Deep from Center of Seat; 9 inches Wide; Oak Tanned Leather; Hogskin Impression.

Cantle—Broad and Full; Well Padded and Bound.

Seat—Solid; Well Padded and Quilted; Light Tan Color Calfskin

Pad—Heavy Duck Top, Cloth Bottom, Leather Facing.

Billets—1 inch Wide.

Stirrup Leathers—1 inch Wide.

Girth—2½ inch Corded Web with Leather Loop; 1 inch Buckle.

Stirrups—Malleable Iron; XC Plate (Tinned).

One in a Box

ENGLISH RIDING SADDLES

*NORLEIGH DIAMOND

*KHEDIVE

Each

No. 51—Single Rig; Skirts Stamped Throughout; 15½ inches Deep; 9 inches Wide; 1 inch Stirrup Leathers; Solid Skirting Leather Seat; Weight about 6 lbs..... **$14.50**

SPECIFICATIONS

Leather—Good Grade Solid Oak Tanned Skirting Leather; Russet Color

Tree—Somerset; 15 inch Seat.

Skirts—15½ inches Deep from Center of Seat; 9 inches Wide; Oak Tanned Leather.

Cantle—Broad and Full; Well Padded and Bound.

Seat—Solid; Broad and Smooth.

Pad—Plain Cloth; Well Stuffed.

Billets—1 inch Wide.

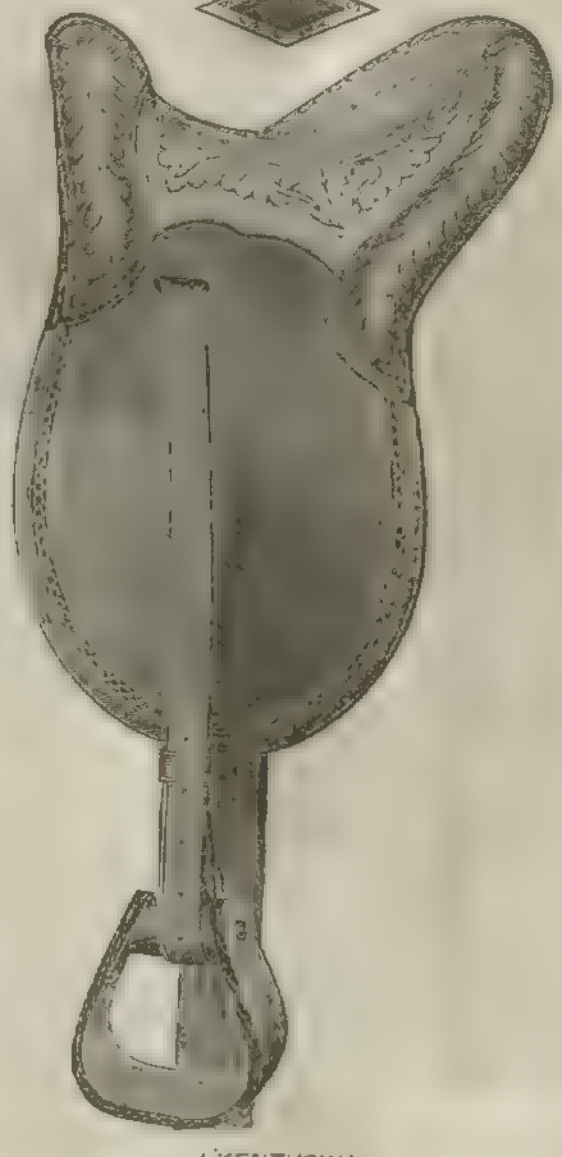
Girth—2⅛ inch Cotton Web with Leather Loop; 1 inch Buckle.

Stirrups—3½ inch Solid Bent Wood.

One in a Box

SPRING SEAT SADDLES

*NORLEIGH DIAMOND



*KENTUCKY

Each

No. 217—Single Rig; Weight about 14 lbs.. ..... **$12.00**

SPECIFICATIONS

Leather—Fine Quality Oak Tanned Russet Color Skirts; Light Tan Color Calfskin Seat.

Tree—Somerset; 15 inch Seat; Double Gullet Iron.

Skirts—22 inches Deep from Center of Seat; 12½ inches Wide. Russet Tanned Leather; Hand Stamped Border.

Cantle—Broad Roll; Padded and Quilted.

Seat—Solid; Soft Light Tan Calfskin; Extra Full Padded and Quilted.

Pad—Solid Leather; Well Stuffed

Billets—1¼ inches Wide.

Stirrup Leathers—1¼ inches Wide.

Girth—2½ inch Corded Web with Leather Loop; 1¼ inch Buckle.

Stirrups—4 inch Solid Bent Wood.

Rings—Two ⅞ inch Black Japanned Coat Strap Rings

One in a Box

SPRING SEAT SADDLES

*NORLEIGH DIAMOND

*COMMON SENSE

	Each
No. 30—Single Rig; Weight about 45 lbs.	$42.00

SPECIFICATIONS

Leather—Well Selected Heavy Skirting Leather Throughout; Russet Color.

Tree—Somerset; 17 inch Seat; Double Gullet Iron.

Skirts—22½ inches Deep from Center of Seat; 12¾ inches Wide; Russet Tanned Leather; Hand Stamped Border.

Cantle—Broad Roll; Smooth, Padded.

Seat—Plain, Solid; No Seam in Center; Deep and Smooth; Very Comfortable.

Pad—Full Leather Top and Bottom.

Billets—1¼ inches Wide.

Stirrup Leathers—1¼ inches Wide.

Girth—2½ inch Corded Web; 1¼ inch Buckle.

Stirrups—4 inch Solid Bent Wood.

Bars—Leather Lined

Rings—Two ⅞ inch, Black Japanned Coat Strap Rings.

LADIES ASTRIDE SADDLES

*NORLEIGH DIAMOND

*CANTER

	Each
No. 256—Single Rig; Weight about 44 lbs.	$42.00

SPECIFICATIONS

Leather—Fine Quality Oak Tanned Russet Color Skirts; Light Tan Color Calfskin Seat.

Tree—15 inch; Covered Horn; Canby.

Skirts—12 by 21 inches.

Bars—Felt Lined.

Seat—Calfskin Quilted.

Stirrup Leathers—1⅛ inches.

Billets—1¼ inches.

Girth—No. 4, Corded Web to Buckle.

Stirrups—2½ inch, Covered Wood.

One in a Box

BOYS AND GIRLS SADDLES

★NORLEIGH DIAMOND

Each

No. 25—Double Rig; Weight about 7 lbs..... **$20 00**

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Hand Stamped Border Decorations.

Tree—Western Style; 11 inch Seat; Wood Fork; Felt Covered.

Horn—Leather Covered with Cap.

Seat—Broad and Sloping; No Jockeys.

Skirts—9 inches Deep from Center of Seat; 12 inches Wide; with Hand Stamped Border and Creased Edges.

Fenders—5¾ inches Wide; 11 inches Long; with Hand Stamped Border and Creased Edges.

Tie Straps—⅞ inch Wide; Creased Edges.

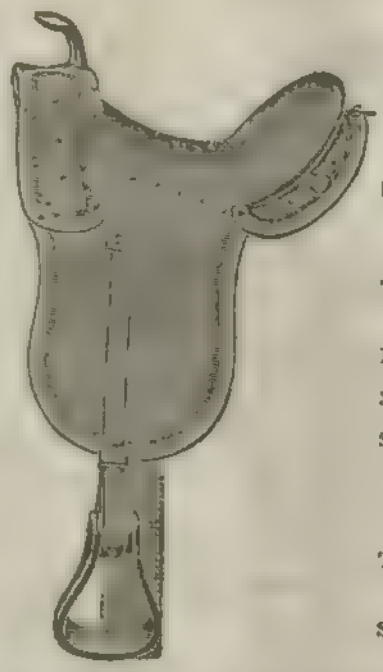
Stirrup Leathers—1 inch Wide; Creased Edges.

Girth—2⅛ inch Corded Web with Leather Loops and Japanned Steel Rings.

Stirrups—2½ inch Boys; Plain Bent Wood.

Rings—¾ inch X; Plated (Tinned) Coat Strap Rings and Japanned Steel Rigging Rings.

Studs—XC Plated (Tinned).



Each

No. 140—Single Rig; Weight about 7 lbs.... **$19 00**

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Hand Stamped Border Decorations.

Tree—Western Style; 11 inch Seat; Wood Fork; Felt Covered.

Horn—Steel, Nickel Plated.

Seat—Plain and Broad, Full Cantle.

Skirts—16 inches Deep from Center of Seat; 8½ inches Wide; with Hand Stamped Border and Creased Edges.

Tie Straps—1 inch Wide; Creased Edges.

Stirrup Leathers—⅞ inch Wide; Creased Edges.

Girth—2¼ inch Corded Web with Leather Loops and 1 inch Japanned Roller Buckle.

Stirrups—2½ inch Boys; Plain Bent Wood.

Rings—¾ inch Japanned Coat Strap Rings.

Studs—XC Plated (Tinned).

One in a Box

Each

No. 37—Single Rig; Weight about 5 lbs..... **$16.50**

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Hand Stamped Border Decorations.

Tree—Western Style; 11 inch Seat; Wood Fork; Rawhide Covered.

Horn—Rawhide Covered and Stitched.

Seat—Open Front; Leather Pieced in Rear.

Skirts—8 inches Deep from Center of Seat; 14 inches Wide; with Hand Stamped Border and Creased Edges.

Fenders—5¾ inches Wide; 11 inches Long, with Hand Stamped Border and Creased Edges.

Tie Straps—1 inch Wide; Creased Edges.

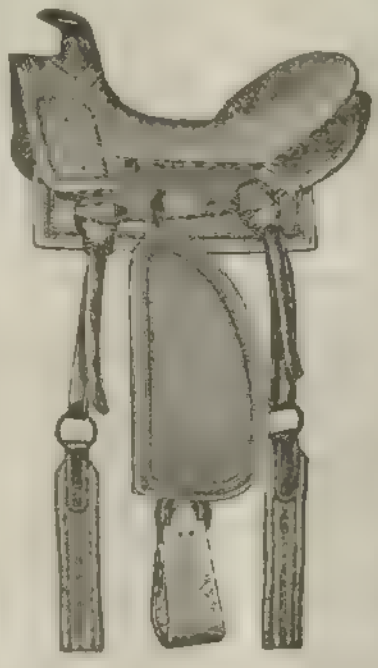
Stirrup Leathers—⅞ inch Wide Creased Edges.

Girth—2⅜ inch Corded Web, with Leather Loops and Japanned Roller Buckle.

Stirrups—2½ inch Boys; Plain Bent Wood.

Rings—Japanned Steel Rigging Rings; ¾ inch Japanned Coat Strap Rings.

Studs—XC Plated (Tinned).



NEW MORGAN

Each

No. 22—Double Rig; Weight about 11 lbs **$34 50**

SPECIFICATIONS

Leather—Heavy Selected Saddle Stock; Russet Color; Hand Stamped Border Decorations.

Tree—New Style Morgan; 13½ inch Seat; Wood Fork; Yellow Felt Covered; Yellow Felt Lined Bars.

Horn—Wood; Covered, with Cap.

Skirts—14½ inches Long, 12 inches Deep; Russet Tanned Leather; Unlined; Hand Stamped Border Decorations.

Cantle—Broad and Sloping; Stitched.

Seat—Solid; Good Size and Well Shaped; No Jockeys.

Double Rig—1¼ in. Wide Front and Back; Front Rigging Attached to Front Housing. Back Rigging Attached to Rear Housing.

Stirrup Leathers—1 inch Wide, Plain Strap.

Fenders—6½ inches Wide; 13 inches Long; Hand Stamped Border Decorations.

Long Latigoes—1 inch Wide.

Short Latigoes—1 inch Wide.

Girth—Cotton Web with Leather Loops and Japanned Steel Rings.

Stirrups—2½ inch Solid Bent Wood; Plain, not Covered.

Rings—Steel Russet Enameled.

Studs—XC Plated Tin.

One in a Box

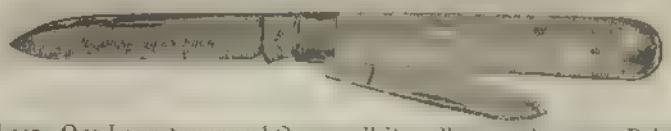
POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free From Flaws and Imperfections.

FULLY GUARANTEED.

EMPIRE

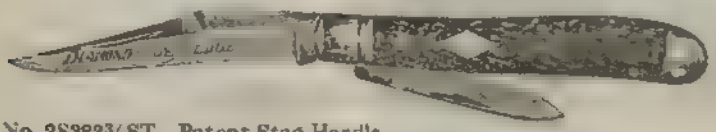
TWO BLADE JACKS



Length 2⅝ inches, German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; No Shield, Weight per Dozen 14 ozs.

*DIAMOND EDGE	Per Dozen
No. 2S164E —Ebony Handle	$13.00
No. 2S164ST—Patent Stag Handle	13.00
No. 2S164G —German Silver Handle	11.70

*EMPIRE	Per Dozen
No. 2E164E —Ebony Handle	$8 50
No. 2E164T —Tortoise Shell Handle	13.50
No. 2E164ST—Patent Stag Handle	13.00
No. 2E164P —Pearl Handle	15 60
No. 2E164G —German Silver Handle	11 70



*DIAMOND EDGE

Length 2¾ inches; German Silver Cap and Bolsters; Brass Lining, Diamond Shield, One Large Clip Saber or Beveled Blade; One Small Pen Blade; Half Polished and Etched; Weight per Dozen 16 ozs.

	Per Dozen
No. 2S3823/4ST—Patent Stag Handle	$14 00
No. 2S3823/4J —Golden Pearl Pyralin Handle	14 50
No. 2S3823/4T —Tortoise Pyralin Handle	14 50
No. 2S3823/4K —Amber Pyralin Handle	14.50

*DIAMOND EDGE

Length 3 inches; German Silver Marked, Biased Cap and Bolster; Brass Lining; Diamond Shield: One Large Spear and One Small Pen Blade; Half Polished and Etched; Weight per Dozen 17 ozs.

	Per Dozen
No. 2S386H —Cornelian Pyralin Handle	$14 00
No. 2S386E —Genuine Ebony Handle	12 00
No. 2S386ST—Patent Stag Handle	12 [illegible]

Length 3 inches; German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Wt. per Doz. 22 ozs.

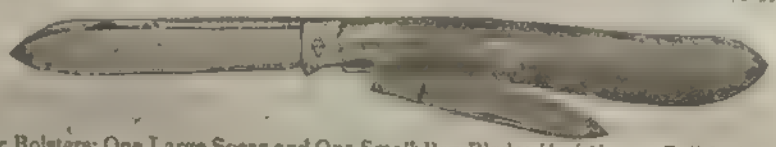
*DIAMOND EDGE	Per Dozen
No. 2S72P—Pearl Handle	$34 00

*EMPIRE	Per Dozen
No. 2E72P —Pearl Handle	$34.00

Length 3 inches; German Silver Bolsters, One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Wt. per Doz. 18 ozs.

*DIAMOND EDGE	Per Dozen
No. 2S153ST—Patent Stag Handle	$14.00
No. 2S153T —Tortoise Shell Handle	15.00
No. 2S153P —Pearl Handle	26.00
No. 2S153G —German Silver Handle	13.00

*EMPIRE	Per Dozen
No. 2E153E —Ebony Handle	$13 00
No. 2E153ST —Patent Stag Handle	14 00
No. 2E153T —Tortoise Shell Handle	12.00
No. 2E153P —Pearl Handle	26.00
No. 2E153G —German Silver Handle	13.00



Length 3 inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Wt. per Doz. 18 ozs.

*DIAMOND EDGE	Per Dozen
No. 2S240 —Cocobolo Handle	$13.50
No. 2S240E —Ebony Handle	13.50
No. 2S240ST—Patent Stag Handle	13.50
No. 2S240T —Tortoise Shell Handle	14 40
No. 2S240P —Pearl Handle	27.00

*EMPIRE	Per Dozen
No. 2E240 —Cocobolo Handle	$8.50
No. 2E240E —Ebony Handle	8.60
No. 2E240ST—Patent Stag Handle	13.50
No. 2E240T —Tortoise Shell Handle	14 40
No. 2E240P —Pearl Handle	27.00

All Above, Half Dozen in a Box

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POCKET KNIVES

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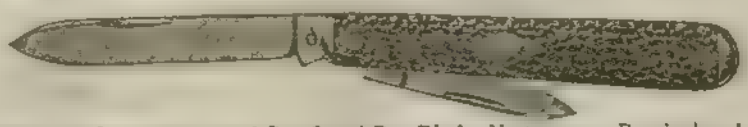
EMPIRE

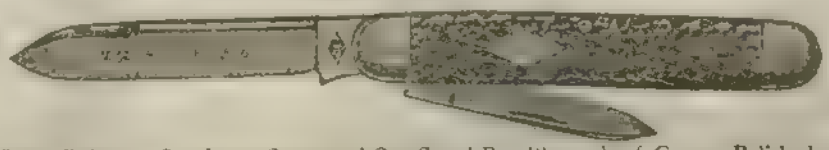
TWO BLADE JACKS



Length 3 inches; German Silver Bolsters, One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 14 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S40E —Ebony Handle	$12 00	No. 2E40E Ebony Handle	$13 00
No. 2S40ST—Patent Stag Handle	13.00	No. 2E40ST—Patent Stag Handle	13.00

Half Dozen in a Box



Length 3¼ inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 1¼ lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S152E —Ebony Handle	$13.50	No. 2E152E Ebony Handle	$13.50
No. 2S152ST—Patent Stag Handle	13 50	No. 2E152ST Patent Stag Handle	13.50
No. 2S152P —Pearl Handle	29.00	No. 2E152P —Pearl Handle	29.00

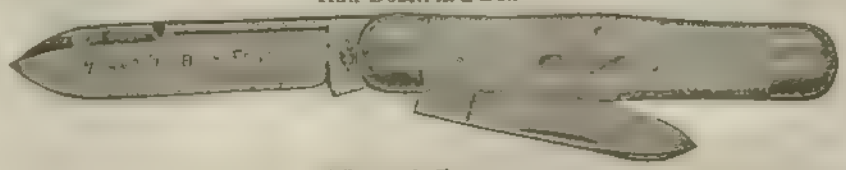
Half Dozen in a Box

★DIAMOND EDGE

Length 3¼ inches; German Silver Biased Bolsters; Brass Lined; Milled Back; Diamond Shield; One Large Clip and One Small Pen Blade; Half Polished and Etched; Weight per Dozen 24 ozs.

	Per Dozen
No. 2S3833/4ST—Patent Stag Handle	$17 00
No. 2S3833/4J —Golden Pearl Pyralin Handle	19 00
No. 2S3833/4RJ—Wine Color and White Mottled Pyralin Handle	19 00

Half Dozen in a Box

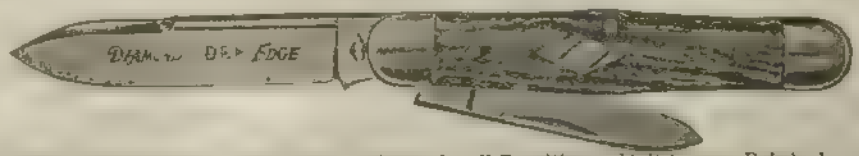


★DIAMOND EDGE

Length 3¼ inches, German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 1⅝ lbs.

	Per Dozen		Per Dozen
No. 2S294—Cocobolo Handle	$9.30	No. 2S294E—Ebony Handle	$9.30
No. 2S294ST Patent Stag Handle	$10.00	No. 2S294W White Bone Handle	$11 00
		No. 2S294P—Pearl Handle	$27.00

Half Dozen in a Box



Length 3¼ inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S130GST—Genuine Stag Handle	$14 00	No. 2E130GST—Genuine Stag Handle	$18.00

Half Dozen in a Box

Length 3¼ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S172ST—Patent Stag Handle	$17 00	No. 2E172ST—Patent Stag Handle	$17.00
No. 2S172P —Pearl Handle	30 00	No. 2E172T Tortoise Shell Handle	18.00

Half Dozen in a Box

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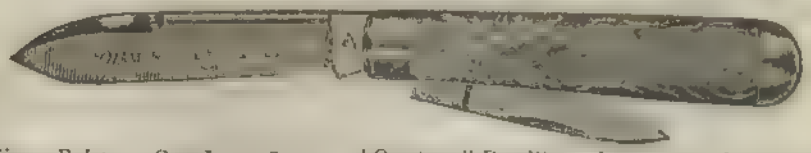
EMPIRE

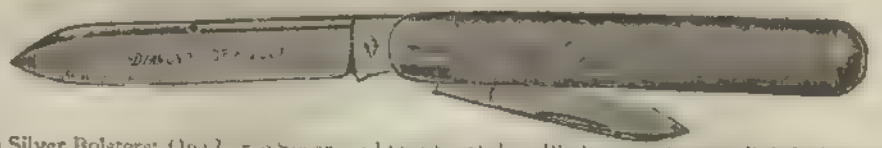
TWO BLADE JACKS



Length 3⅛ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1⅝ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S8 —Cocobolo Handle	$12.00	No. 2E8E Ebony Handle	$12.00
No. 2S8E Ebony Handle	12.00	No. 2E8ST Patent Stag Handle	12.00
No. 2S8ST Patent Stag Handle	12.00	No. 2E8D Smoked Pearl Celluloid Handle	13.70
No. 2S8D Smoked Pearl Celluloid Handle	13.70	No. 2E8W White Celluloid Handle	10.00

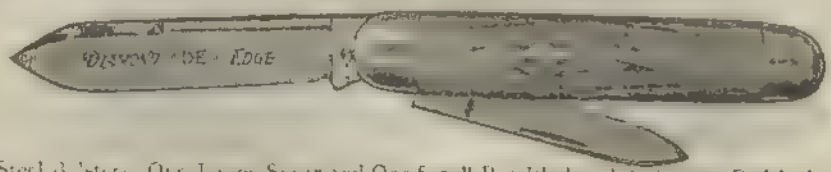
Half Dozen in a Box



Length 3⅝ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1⅝ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S170ST—Patent Stag Handle	13.70	No. 2E170E —Ebony Handle	$13.70
No. 2S170D —Silver Pyralin Handle	15.50	No. 2E170ST —Patent Stag Handle	13.70
		No. 2E170D —Silver Pyralin Handle	15.50

Half Dozen in a Box



Length 3¼ inches; Polished Steel Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1⅝ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S90 —Cocobolo Handle	$13.00	No. 2E90 —Cocobolo Handle	$13.00
No. 2S90ST—Patent Stag Handle	13.00	No. 2E90ST—Patent Stag Handle	13.00

Half Dozen in a Box

Length 3⅛ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1⅝ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S188ST Patent Stag Handle	$17.00	No. 2E188ST—Patent Stag Handle	$17.00
No. 2S188W —White Bone Handle	12.00	No. 2E188W White Bone Handle	18.00
No. 2S188P —Mother of Pearl Handle	35.00	No. 2E188P —Mother of Pearl Handle	35.00

Half Dozen in a Box

*DIAMOND EDGE

Barrel Jack Pattern; Length 3⅜ inches; German Silver Ribbed Bolsters; One Large Coping and One Small Coping Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 21 ozs.

	Per Dozen
No. 2S351½P Pearl Handle	$32.00

Half Dozen in a Box

Length 3½ inches; German Silver Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 23 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S350½ST—Patent Stag Handle	$18.00	No. 2E350½ST Patent Stag Handle	$18.00
No. 2S350½D —Silver Pyralin Handle	19.00	No. 2E350½D Silver Pyralin Handle	19.00

Half Dozen in a Box

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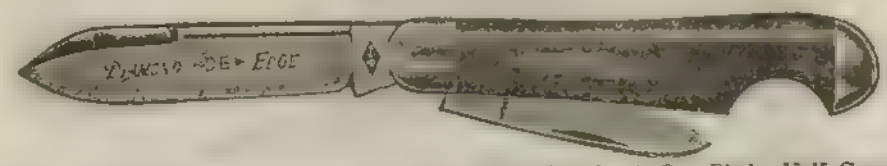
EMPIRE

TWO BLADE JACKS

Length 3⅝ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 1⅝ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S84—Cocobolo Handle	$13.00	No. 2E84—Cocobolo Handle	$13.00

Half Dozen in a Box



Easy Opener; Length 3⅜ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1⅓ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S116E —Ebony Handle	$13 50	No. 2E116E —Ebony Handle	$13.50
No. 2S116T —Tortoise Shell Handle	15 00	No. 2E116T —Tortoise Shell Handle	15.00
No. 2S116ST—Patent Stag Handle	13.50	No. 2E116ST —Patent Stag Handle	13.70

Half Dozen in a Box

Length 3⅜ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1⅔ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S55 —Cocobolo Handle	$13 00	No. 2E55 —Cocobolo Handle	$13 00
No. 2S55E Ebony Handle	13 00	No. 2E55E Ebony Handle	13 00
No. 2S55ST Patent Stag Handle	13.00	No. 2E55ST – Patent Stag Handle	13 00
No. 2S55GST—Genuine Stag Handle	15.60	No. 2E55GST—Genuine Stag Handle	15 60

Half Dozen in a Box

Length 3¼ inches; German Silver Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2 lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S55½ —Cocobolo Handle	$13 00	No. 2E55½ —Cocobolo Handle	$8.00
No. 2S55½ST—Patent Stag Handle	13 00	No. 2E55½ST—Patent Stag Handle	13.00

Half Dozen in a Box

*DIAMOND EDGE

Length 3½ inches; German Silver Bolsters; One Large Sheep Foot and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining German Silver Shield; Weight per Dozen 2⅛ lbs.

	Per Dozen
No. 2S67½ST—Patent Stag Handle	$13.00

Half Dozen in a Box

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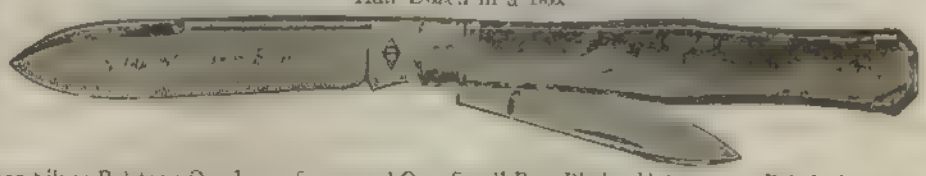
EMPIRE

TWO BLADE JACKS

Length 3½ inches, German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S51B —Buffalo Horn Handle	$13.00		
No. 2S51ST—Patent Stag Handle	13.30	No. 2E51ST Patent Stag Handle	$17.00

Half Dozen in a Box



Length 3½ inches, German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S125E -Ebony Handle	$17.00	No. 2E125E -Ebony Handle	$17.00
No. 2S125ST -Patent Stag Handle	17.00	No. 2E125ST Patent Stag Handle	17.00
No. 2S125GST -Genuine Stag Handle	19.20	No. 2E125GST -Genuine Stag Handle	19.20
No. 2S125T —Tortoise Shell Handle	19.20	No. 2E125T Tortoise Shell Handle	18.00
No. 2S125P —Mother of Pearl Handle	42.00	No. 2E125P Mother of Pearl Handle	42.00

Half Dozen in a Box

*DIAMOND EDGE	Per Dozen
No 2S412J Same as above, except with Brazed Caps and Bolsters; Golden Pearl Pyralin Handle	$18.00

Half Dozen in a Box

*DIAMOND EDGE

Length 3½ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅛ lbs.

	Per Dozen		Per Dozen
No. 2S134E -Ebony Handle	$14.00	No. 2S134ST Patent Stag Handle	$14.50

Half Dozen in a Box

*DIAMOND EDGE

Length 3½ inches; German Silver Bolsters, One Large Clip and One Small Pen Blade, Half Crocus Polished and Etched Brass Lining; German Silver Shield; Weight per Dozen 2¼ lbs.

	Per Dozen
No. 2S134¾ST—Patent Stag Handle	$14.50

Half Dozen in a Box

Length 3½ inches, German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining German Silver Shield; Weight per Dozen 2¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S134GST—Genuine Stag Handle	$17.00	No. 2E134GST—Genuine Stag Handle	$18.00

Half Dozen in a Box

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POCKET KNIVES

EMPIRE

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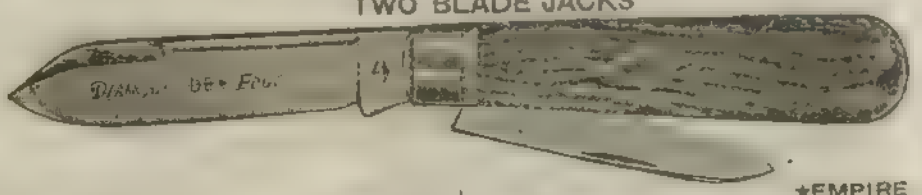
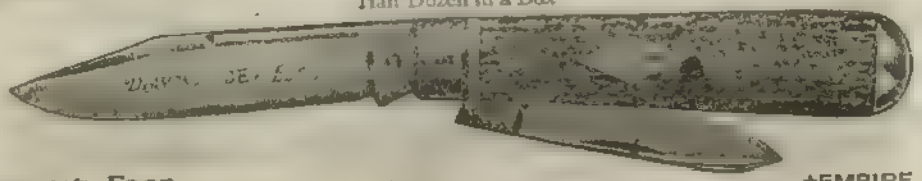
TWO BLADE JACKS



Length 3½ inches; Polished Steel Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield. Weight per Dozen 2⅛ lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S26 —Cocobolo Handle	$13.00	No. 2E26 Cocobolo Handle	$13.00
No. 2S26ST —Patent Stag Handle	13.00	No. 2E26ST Patent Stag Handle	13.00

Half Dozen in a Box



Length 3½ inches, Polished Steel Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅛ lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S26¾ —Cocobolo Handle	$13.00	No. 2E26¾ Cocobolo Handle	$13.00
No. 2S26¾ST—Patent Stag Handle	9.70	No. 2E26¾ST—Patent Stag Handle	13.00

Half Dozen in a Box

Length 3½ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield Weight per Dozen 2 lbs.

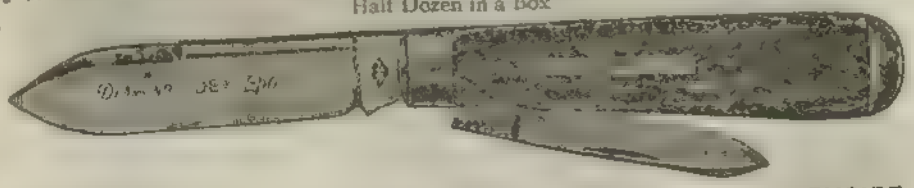
★DIAMOND EDGE

	Per Dozen		Per Dozen
No. 2S57 —Cocobolo Handle	$13.00	No. 2S57ST—Patent Stag Handle	$13.00
No. 2S57E —Ebony Handle	13.00	No. 2S57T —Tortoise Shell Pyralin Handle	12.00

Same as above, except with Steel Bolsters and Caps; Glazed and Etched Blades.

	Per Dozen		Per Dozen
No. 2S427E—Genuine Ebony Handle	$18.00	No. 2S427ST—Patent Stag Handle	$12.00

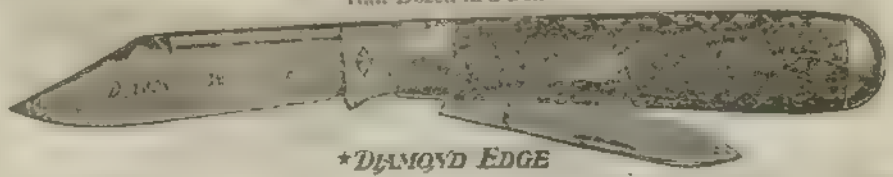
Half Dozen in a Box



Length 3½ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining. German Silver Shield. Weight per Dozen 2⅛ lbs.

DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S57GST—Genuine Stag Handle	$18.00	No. 2E57GST—Genuine Stag Handle	$18.00

Half Dozen in a Box



Length 3½ inches; German Silver Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅛ lbs.

★DIAMOND EDGE

	Per Dozen		Per Dozen
No. 2S57¾E —Genuine Ebony Handle	$13.00	No. 2S427¾ST—Patent Stag Handle Otherwise Same as above, except with Steel Bolsters and Caps; Glazed and Etched Blades	$12.00
No. 2S57¾ST —Patent Stag Handle	12.00		

Half Dozen in a Box

★DIAMOND EDGE

Length 3¼ inches, Oval Pattern, Mariscal German Silver Bolsters; Brass Lining; Diamond Shield; one large Clip and one large Spey Blade; Half Polished and Etched; Weight per Dozen 3 lbs.

	Per Dozen		Per Dozen
No. 2S425¾CC-Brown and White Mottled Pyralin Handle	$22.00	No. 2S425¾ST Patent Stag Handle	$21.60

Half Dozen in a Box

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POCKET KNIVES

EMPIRE

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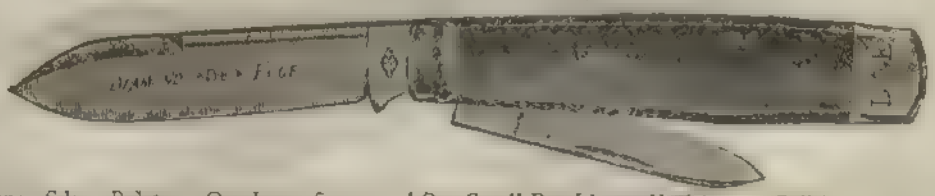
TWO BLADE JACKS



Length 3½ inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅝ lbs.

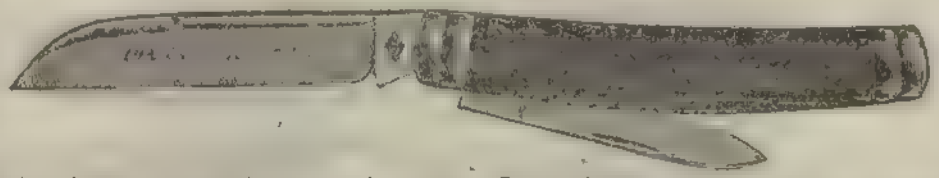
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S63E Ebony Handle	$17.00		
No. 2S63B Buffalo Horn Handle	13.50		
No. 2S63ST—Patent Stag Handle	17.00	No. 2E63ST Patent Stag Handle	$17.00

Half Dozen in a Box

Length 3½ inches, German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 2⅝ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S113GST—Genuine Stag Handle	$21.00	No. 2E113GST Genuine Stag Handle	$21.00

Half Dozen in a Box



Length 3⅝ inches, German Silver Bolsters, One Large Sheep Foot and One Small Pen Blade, Half Crocus Polished and Etched, Iron Lining; Weight per Dozen 1⅞ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S70½GST Genuine Stag Handle	$19.20	No. 2E70½GST—Genuine Stag Handle	$19.20

Half Dozen in a Box

Length 3⅝ inches; German Silver Bolsters and Seal Caps, One Large Sheep Foot and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield, Weight per Dozen 2⅛ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S124½GST Genuine Stag Handle	$18.00	No. 2E124½GST Genuine Stag Handle	$22.00

Half Dozen in a Box

Length 3⅛ inches, German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield Weight per Dozen 1⅝ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S318ST Patent Stag Handle	$16.00	No. 2E318ST —Patent Stag Handle	$16.00
No. 2S318GST—Genuine Stag Handle	19.20	No. 2E318GST —Genuine Stag Handle	19.20
No. 2S318G —German Silver Handle	14.00	No. 2E318T —Tortoise Shell Handle	17.00
		No. 2E318G —German Silver Handle	14.00

Half Dozen in a Box

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EMPIRE

TWO BLADE JACKS

*DIAMOND EDGE

Length 3⅛ inches; German Silver Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2½ lbs.

	Per Dozen
No. 2S268¾ST—Patent Stag Handle	**$14.50**

Half Dozen in a Box

*DIAMOND EDGE

Length 3⅛ inches, German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 2¾ lbs.

	Per Dozen		Per Dozen
No. 2S268E—Ebony Handle	**$9.50**	**No. 2S268ST—Patent Stag Handle**	**$15.00**

Same as above, except with Steel Caps and Bolsters; Glazed and Etched Blades

	Per Dozen
No. 2S428E—Genuine Ebony Handle	**$13.00**
No. 2S428ST—Patent Stag Handle	**13.00**

Same as above, except with Large Spear Blade instead of Small Pen Blade

No. 2S428¼E—Genuine Ebony Handle	**14.50**
No. 2S428¼ST—Patent Stag Handle	**14.50**

Half Dozen in a Box

*DIAMOND EDGE

Length 3⅛ inches; German Silver Bolsters, One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2¼ lbs.

	Per Dozen		Per Dozen
No. 2S269—Cocobolo Handle	**$14.50**	**No. 2S269ST—Patent Stag Handle**	**$14.50**
No. 2S269E—Ebony Handle	**14.50**	**No. 2S269W—White Bone Handle**	**16.00**

Half Dozen in a Box

*DIAMOND EDGE

Length 3⅛ inches, German Silver Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2¼ lbs.

	Per Dozen
No. 2S289½ST—Patent Stag Handle	**$14.50**

Same as above, except with Steel Bolsters, Glazed and Etched Blades

	Per Dozen
No. 2S429¾ST—Patent Stag Handle	**$8.50**

Half Dozen in a Box

Length 3⅛ inches, German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 2¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S92CST—Genuine Stag Handle	**$18.00**	**No. 2E92CST—Genuine Stag Handle**	**$18.00**

Half Dozen in a Box

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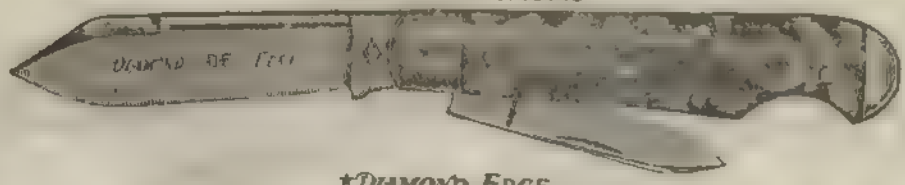
EMPIRE

TWO BLADE JACKS



*DIAMOND EDGE

Easy Opener. Length 3⅜ inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 2¾ lbs.

	Per Dozen		Per Dozen		Per Dozen
No. 2S268EO Cocobolo Handle	$15.00	No. 2S268SPO Patent Stag Handle	$15.00	No. 2S268TEO -Tortoise Shell Pyralin Handle	$17.00

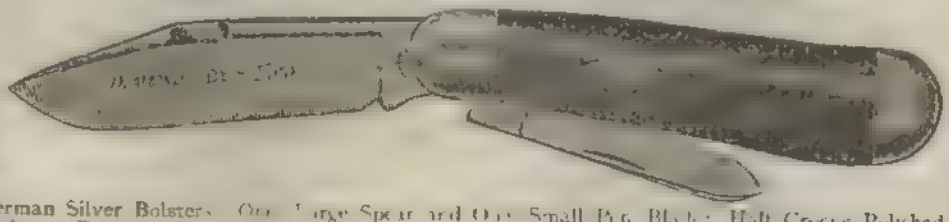
No. 2S428SEO—Same as Above, Except With Stag Covered Bolsters, Glazed and Lined Brass Patent Stag Handle 13 50

Half Dozen in a Box

Length 3¼ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2½ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S86GST—Genuine Stag Handle	$19.20	No. 2E85GST—Genuine Stag Handle	$19.20

Half Dozen in a Box



Length 3⅜ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 3 lbs.

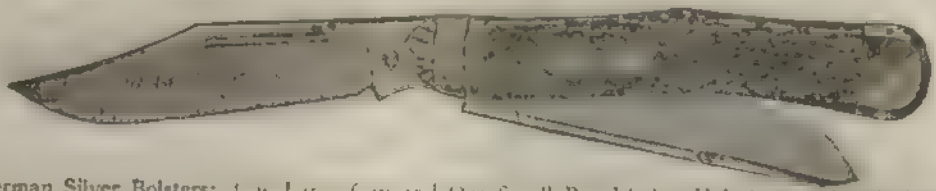
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S9E Ebony Handle	$18.00	No. 2E9E —Ebony Handle	$18.00
No. 2S9ST Patent Stag Handle	18.00	No. 2E9ST —Patent Stag Handle	18.00
No. 2S9GST Genuine Stag Handle	21.00	No. 2E9GST—Genuine Stag Handle	21.00

Half Dozen in a Box

Length 3¼ inches; German Silver Rat Tail Bolsters; One Large Clip and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅔ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S319¼GST Genuine Stag Handle	$21.00	No. 2E319¾ GST -Genuine Stag Handle	$21.00

Half Dozen in a Box



Length 3¾ inches; German Silver Bolsters; One Large Clip and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield; Weight per Dozen 2¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S264¼ST Patent Stag Handle	$18.00	No. 2E264¾ST Patent Stag Handle	$18.00

Half Dozen in a Box

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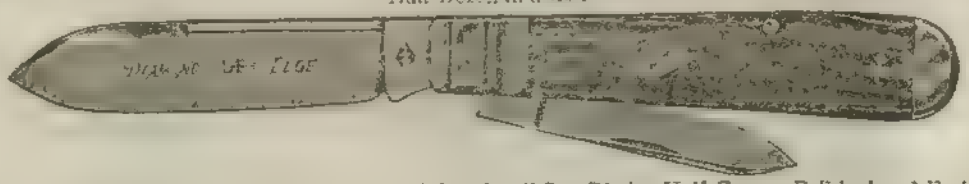
TWO BLADE JACKS

Length 3¾ inches; German Silver Bolsters, One Large Clip and One Large Speying Blade; Half Crocus Polished and Etched; Brass Lining German Silver Shield; Weight per Dozen 2¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S337¼ST Patent Stag Handle	$18.00	No. 2E337¼ST Patent Stag Handle	$18.00

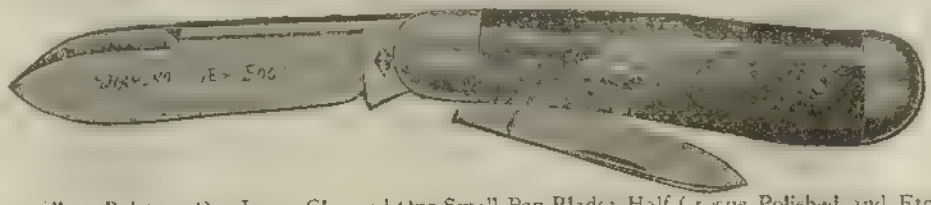
Half Dozen in a Box



Length 3¾ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2½ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S135GST—Genuine Stag Handle	$15.00	No. 2E135GST—Genuine Stag Handle	$20.00

Half Dozen in a Box



Length 3¾ inches; German Silver Bolsters, One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S9¾E Ebony Handle	$18.00	No. 2E9¾E —Ebony Handle	$18.00
No. 2S9¼ST—Patent Stag Handle	18.00	No. 2E9¼ST—Patent Stag Handle	18.00

Half Dozen in a Box

Length 3¾ inches; German Silver Bolsters, One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 2⅛ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S161¾ST Patent Stag Handle	$18.00	No. 2E161¾ST—Patent Stag Handle	$18.00

Half Dozen in a Box

*DIAMOND EDGE

Length 3¼ inches; Marked German Silver Bolsters; Mild Back; Brass Lining; Diamond Shield; One Large Clip and One Small Pen Blade, Half Polished and Etched Blades; Weight per Dozen 2¼ lbs.

	Per Dozen
No. 2S218¾AG—Agate Pyralin Handle	$21.60
No. 2S218¾I —Golden Pearl Pyralin Handle	21 60
No. 2S218¾D —Gray Pearl Pyralin Handle	21 60
No. 2S218¾ST—Patent Stag Handle	19 20

Half Dozen in a Box

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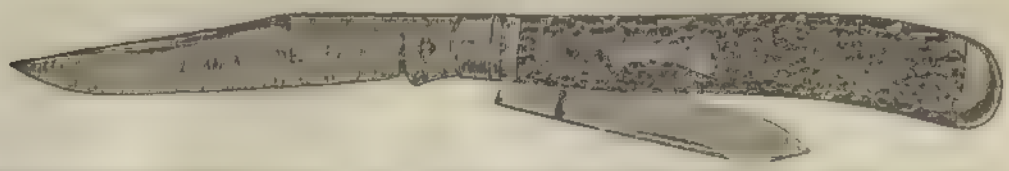
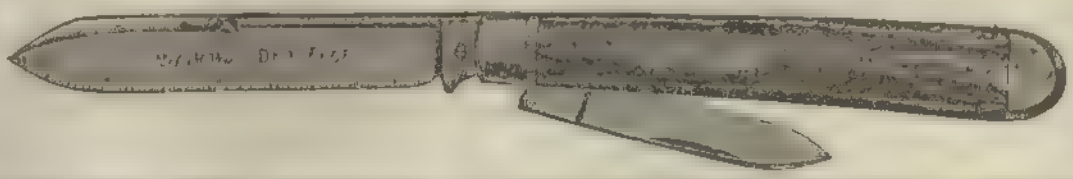
TWO BLADE JACKS



Length 3⅞ inches, German Silver Bolsters, One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining, German Silver Shield, Weight per Dozen 2½ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S225⅝ST -Patent Stag Handle	$17.00	No. 2E225⅝ST Patent Stag Handle	$17.00

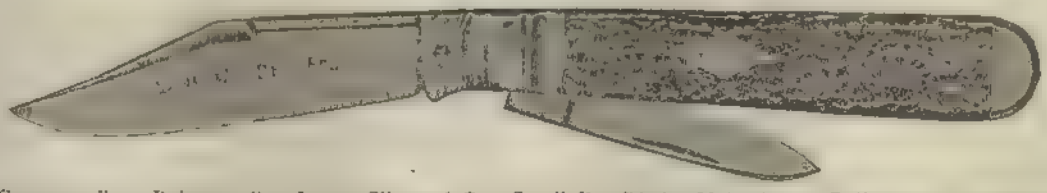
Half Dozen in a Box



Length 4 inches, German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2 lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S163ST Patent Stag Handle	$19.00	No. 2E163ST Patent Stag Handle	$19.00
No. 2S163GST Genuine Stag Handle	21.00	No. 2E163GST Genuine Stag Handle	21.00

Half Dozen in a Box



Length 4 inches, German Silver Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 2½ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S136⅝ST Patent Stag Handle	$19.00	No. 2E136⅝ST Patent Stag Handle	$19.00

Half Dozen in a Box

Length 4 inches; German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2½ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S136GST Genuine Stag Handle	$21.00	No. 2E136GST -Genuine Stag Handle	$21.00

Half Dozen in a Box

Length 4⅛ inches, German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 3½ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S13GST Genuine Stag Handle	$21.60	No. 2E13GST Genuine Stag Handle	$21.60

Half Dozen in a Box

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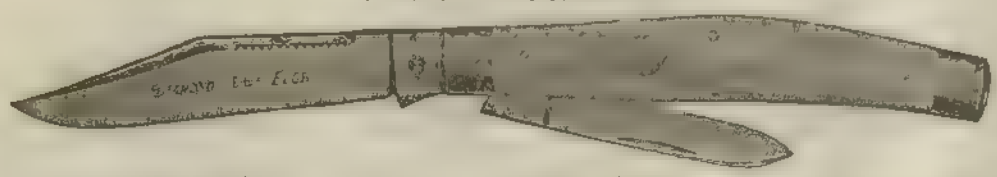
EMPIRE

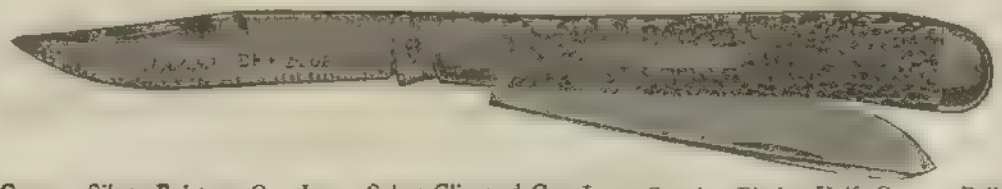
TWO BLADE JACKS



Length 3⅞ inches; German Silver Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining; Hand Milled; German Silver Shield; Weight per Dozen 1⅞ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S184¼ST —Patent Stag Handle	$18 00	No. 2E184¼ST Patent Stag Handle	$18 00
No. 2S184¼P —Mother of Pearl Handle	42.00	No. 2E184¼P —Mother of Pearl Handle	42.00

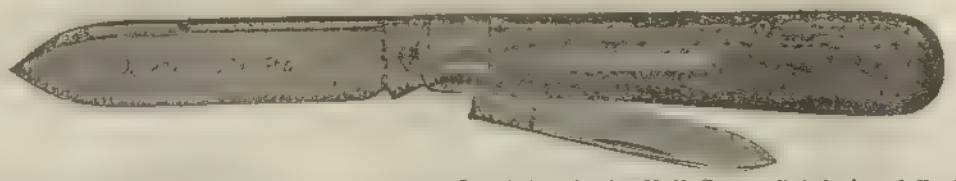
Half Dozen in a Box



Length 3⅞ inches; German Silver Bolsters; One Large Saber Clip and One Large Spaying Blade; Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 2⅜ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S297¾ST—Patent Stag Handle	$18.00		
No. 2S297¾GST—Genuine Stag Handle	21 00	No. 2E297¾ST—Patent Stag Handle	$18.00

Half Dozen in a Box



Length 3¾ inches; German Silver Bolsters, One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 2⅜ lbs.

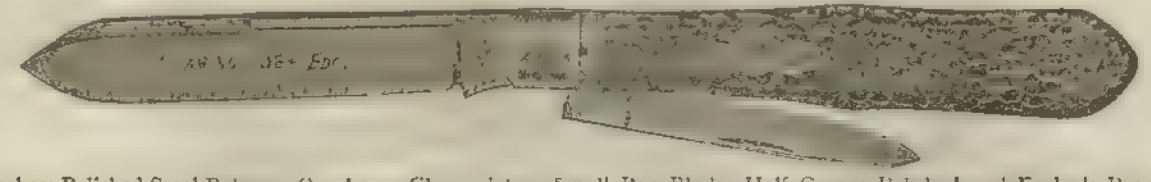
*DIAMOND EDGE	Per Dozen
No. 2S86GST—Genuine Stag Handle	$17.00

Half Dozen in a Box

Length 4 inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2½ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S133ST —Patent Stag Handle	$17.00	No. 2E133ST —Patent Stag Handle	$17.00
No. 2S133GST—Genuine Stag Handle	21.00	No. 2E133GST—Genuine Stag Handle	21.00

Half Dozen in a Box



Length 4½ inches; Polished Steel Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German silver Shield; Weight per Dozen 2⅜ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S158ST—Patent Stag Handle	$19.00	No. 2E158ST—Patent Stag Handle	$19.00

Half Dozen in a Box

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POCKET KNIVES

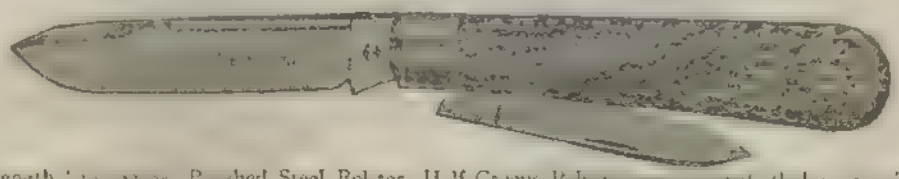
EMPIRE

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

TWO BLADE JACKS

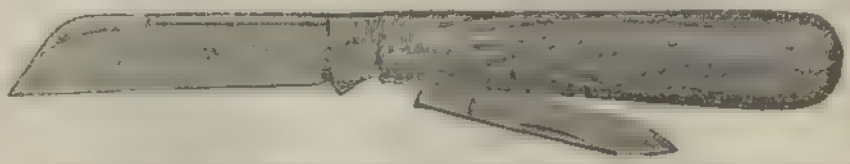
Cocobolo Handle; Length 3¾ in; Polished Steel Bolster, Half Crocus Polished and Etched Blades, Iron Lining, German Silver Shield, Wt per Doz. 1¼ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S2 —Large Spear and Small Pen Blade	$11.70	No. 2E2 —Large Spear and Small Pen Blade	$11 70
No. 2S2¼—Large Clip and Small Pen Blade	11.70	No. 2E2¼—Large Clip and Small Pen Blade	11.70
No. 2S2⅝—Large Speying and Small Pen Blade	7 30	No. 2E2⅝—Large Speying and Small Pen Blade	11 70



Patent Stag Handle; Length 3¾ inches, Polished Steel Bolster, Half Crocus Polished and Etched Blades, Iron Lining, German Silver Shield Weight per Dozen 2 lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S2ST —Large Spear and Small Pen Blade	$11.70	No. 2E2ST —Large Spear and Small Pen Blade	$11.70
No. 2S2¼ST—Large Clip and Small Pen Blade	11 70	No. 2E2¼ST—Large Clip and Small Pen Blade	11 70
No. 2S2⅝ST—Large Speying and Small Pen Blade	11.70	No. 2E2⅝ST—Large Speying and Small Pen Blade	11.70
No. 2S2½ST—Large Sheep Foot and Small Pen Blade	11.70	No. 2E2½ST—Large Sheep Foot and Small Pen Blade	11.70



Cocobolo Handle; Length 2¼ inches, Polished Steel Bolster, Glazed and Etched Blades; Iron Lining, No Shield, Weight per Dozen 1½ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S1 —Large Spear and Small Pen Blade	$7 20	No. 2E1 —Large Spear and Small Pen Blade	$7 20
No. 2S1¼—Large Clip and Small Pen Blade	7 20	No. 2E1¼—Large Clip and Small Pen Blade	7 20
No. 2S1½—Large Sheep Foot and Small Pen Blade	7 20	No. 2E1½—Large Sheep Foot and Small Pen Blade	7.20

*DIAMOND EDGE

Same as above, except with Brass Lining and Plain Glazed Blades

	Per Dozen
No. 2S5 —Large Spear and Small Pen Blade	$7.20
No. 2S5¼—Large Clip and Small Pen Blade	7.20
No. 2S5½—Large Sheepfoot and Small Pen Blade	7.20

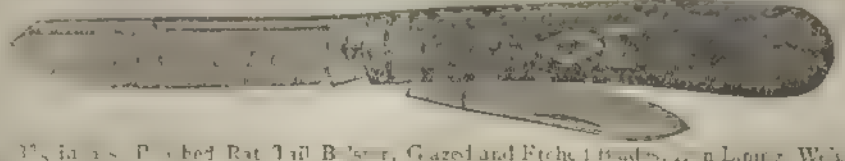
Patent Stag Handle, Length 2¼ inches, Polished Steel Bolsters, Glazed and Etched Blades, Iron Lining, No Shield, Weight per Dozen 1⅝ lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S1ST —Large Spear and Small Pen Blade	$7 20	No. 2E1ST —Large Spear and Small Pen Blade	$7 20
No. 2S1¼ST—Large Clip and Small Pen Blade	7.20	No. 2E1¼ST—Large Clip and Small Pen Blade	7 20
No. 2S1½ST—Large Sheep Foot and Small Pen Blade	7 20	No. 2E1½ST—Large Sheep Foot and Small Pen Blade	7 20

*DIAMOND EDGE

Same as above, except with Brass Lining and Plain Glazed Blades

	Per Dozen
No. 2S5 ST—Large Spear and Small Pen Blade	$7.20
No. 2S5¼ST—Large Clip and Small Pen Blade	7.20
No. 2S5½ST—Large Sheepfoot and Small Pen Blade	7.20



Black Iron Handle, Length 3¾ inches, Polished Rat Tail Bolster, Glazed and Etched Blades, Iron Lining, Weight per Dozen 2 lbs.

*DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S185IR —Large Spear and Small Pen Blade	$10 00	No. 2E185IR —Large Spear and Small Pen Blade	$10 00
No. 2S18½IR—Large Speying and Small Pen Blade	7.50	No. 2E18½IR—Large Speying and Small Pen Blade	10.00

All Above, Half Dozen in a Box

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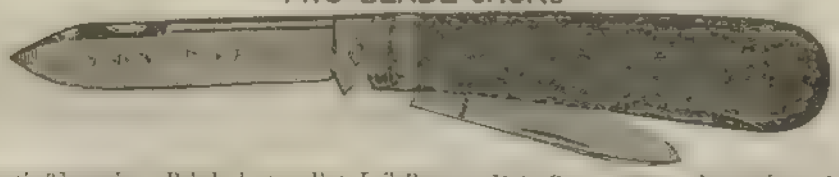
TWO BLADE JACKS



Genuine Stag Handle; Length 3⅛ inches; Polished Steel Rat Tail Bolster, Half Crocus Polished and Etched Large Blades, Iron Lining; no Shield, Weight per Dozen 1⅝ lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S28GST —Large Spear and Small Pen Blade	$10 00	No. 2F28GST —Large Spear and Small Pen Blade	$13 00
		No. 2F28½GST —Large Sheep Foot and Small Pen Blade	13.00

Half Dozen in a Box

Length 3⅛ inches; German Silver Bolster, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 2¼ lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S131GST —Genuine Stag Handle	$18 00	No. 2F131GST Genuine Stag Handle	$18.00

Half Dozen in a Box

★DIAMOND EDGE

Carpenters Knife; Length 3½ inches; Polished Steel Rat Tail Bolster; One Large Spear and One Large Sheep Foot Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2¼ lbs.

	Per Dozen
No. 2S317ST Patent Stag Handle	$13 50

Half Dozen in a Box

Length 3⅛ inches; Polished Steel Rat Tail Bolster, One Large Spear and One Small Curving Pen Blade; Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 2 lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S25E —Ebony Handle	$13 00	No. 2F25E Ebony Handle	$13 00
No. 2S25ST—Patent Stag Handle	18.00	No. 2F25ST—Patent Stag Handle	13.00

★DIAMOND EDGE

Same as above, except with large Spear or Beveled Blade.

	Per Dozen
No. 2S402E —Genuine Ebony Handle	$14.00
No. 2S402ST—Patent Stag Handle	14.00

★DIAMOND EDGE

Same as above, except with Clip Blade

	Per Dozen
No. 2S402¾E —Genuine Ebony Handle	$14.00
No. 2S402¾ST —Patent Stag Handle	14.00

Half Dozen in a Box

Length 3⅛ inches; German Silver Bolster; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅝ lbs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 2S160ST Patent Stag Handle	$14 00	No. 2F160ST Patent Stag Handle	$18.00

Half Dozen in a Box

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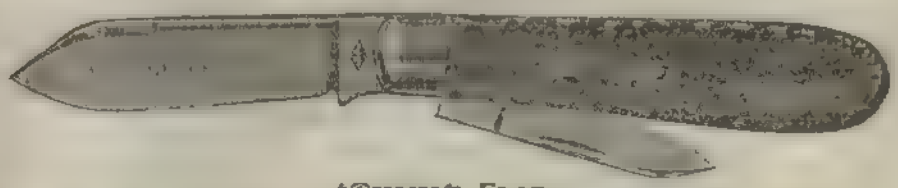
EMPIRE

TWO BLADE JACKS



*DIAMOND EDGE

Length 3¼ inches; Polished Steel Bolster, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2¼ lbs.

	Per Dozen		Per Dozen		Per Dozen
No. 2S226—Cocobolo Handle	$13 00	No. 2S226E—Ebony Handle	$13 00	No. 2S226ST—Patent Stag Handle	$13 00

Half Dozen in a Box

*DIAMOND EDGE

Length 3¼ inches; Polished Steel Bolster; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅜ lbs.

	Per Dozen
No. 2S226½ST—Patent Stag Handle	$13 00

Half Dozen in a Box

*DIAMOND EDGE

Length 3¼ inches; Polished Steel Bolster; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2⅜ lbs.

	Per Dozen
No. 2S267SEO—Patent Stag Handle	$13 00
No. 2S437EO—Solid Bronze Handle	9.00

Half Dozen in a Box

Length 3¼ inches; Polished Steel Rat Tail Bolster; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Iron Lining; No Shield; Weight per Dozen 2½ lbs.

*DIAMOND EDGE

	Per Dozen		Per Dozen
No. 2S59GST—Genuine Stag Handle	$17 00	No. 2E59GST—Genuine Stag Handle	$17 00

*EMPIRE

Half Dozen in a Box

Length 3¾ inches; Polished Steel Rat Tail Bolster; One Large Sheep Foot and One Small Pen Blade; Half Crocus Polished and Etched; Iron Lining; No Shield; Weight per Dozen 2⅜ lbs.

*DIAMOND EDGE

	Per Dozen		Per Dozen
No. 2S59½GST—Genuine Stag Handle	$17.00	No. 2E59½GST—Genuine Stag Handle	$17 00

*EMPIRE

Half Dozen in a Box

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EMPIRE

TWO BLADE JACKS

*DIAMOND EDGE

Physicians; Length 3¾ inches; German Silver Bolster and Seal Cap, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched Brass Lining, No Shield; Weight per Dozen 20 ozs.

	Per Dozen
No. 2S302E Ebony Handle	$11 00
No. 2S302ST Patent Stag Handle	$12 00
No. 2S303P Mother of Pearl Handle	$26 00

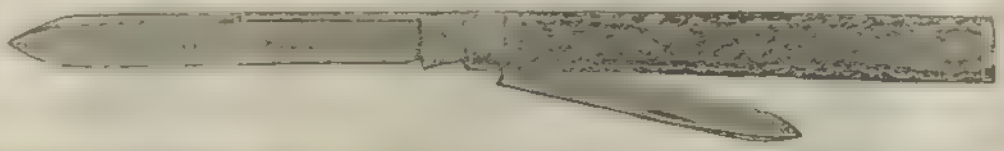
Half Dozen in a Box.

Physicians; Length 3¾ inches; German Silver Bolster and Seal Cap; One Large Spear and One Spatula Blade; Half Crocus Polished and Etched Brass Lining; No Shield; Weight per Dozen 1¼ lbs.

*DIAMOND EDGE	Per Dozen
No. 2S217E Ebony Handle	$19 20
No. 2S217ST Patent Stag Handle	20 00
No. 2S217P —Mother of Pearl Handle	48 00

*EMPIRE	Per Dozen
No. 2E217E —Ebony Handle	$19 20
No. 2E217ST Patent Stag Handle	20 00
No. 2E217P —Mother of Pearl Handle	48 00

Half Dozen in a Box.



Physicians; Length 3¾ inches; German Silver Bolster and Seal Cap; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched Brass Lining; No Shield; Weight per Dozen 1 lbs.

*DIAMOND EDGE	Per Dozen
No. 2S162E —Ebony Handle	$13 50
No. 2S162ST —Patent Stag Handle	14 00
No. 2S162P —Mother of Pearl Handle	30.00

*EMPIRE	Per Dozen
No. 2E162ST Patent Stag Handle	$19 00
No. 2E162P —Mother of Pearl Handle	30 00

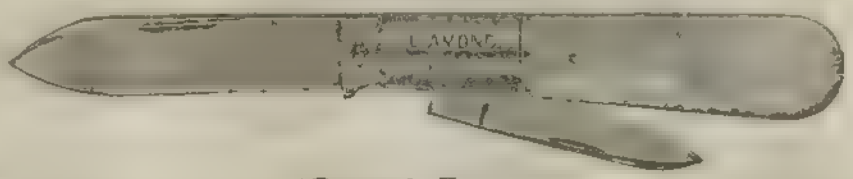
Half Dozen in a Box.

With Scratch Bright Wood Grain and Metal Butt and Loop, Length 3¼ inches; Polished Steel Bolster, One Large Spear and One Small Pen Blade; Glazed and Etched; Iron Lining; No Shield; Weight per Dozen 2 lbs.

*DIAMOND EDGE	Per Dozen
No. 2S3—Cocobolo Handle	$10.00

*EMPIRE	Per Dozen
No. 2E3—Cocobolo Handle	$10 00

Half Dozen in a Box.



*DIAMOND EDGE

Length 3¾ inches, Polished Steel Bolster, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, Weight per Dozen 2⅞ ozs.

	Per Dozen
No. 2SOP— Mother of Pearl Handle	$23.00

Half Dozen in a Box

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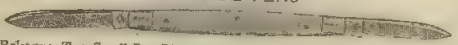
EMPIRE

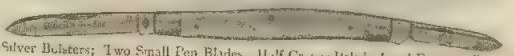
TWO BLADE PENS



Length 2⅛ inches; German Silver Bolsters; Two Small Pen Blades; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 6 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S270P—Pearl Handle	$18.00	No. 2E270P—Pearl Handle	$18.00

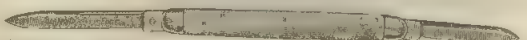
Half Dozen in a Box



Length 2¾ inches; German Silver Bolsters; Two Small Pen Blades, Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 7 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S271P—Pearl Handle	$19.00	No. 2E271P—Pearl Handle	$19.00

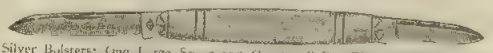
Half Dozen in a Box



Length 2⅞ inches; German Silver Bolsters; Two Small Pen Blades; Full Crocus Polished; Brass Lining; Weight per Dozen 7 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S255P—Pearl Handle	$18.50	No. 2E255P—Pearl Handle	$19.20

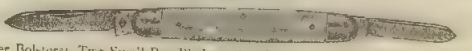
Half Dozen in a Box



Length 2⅝ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 10 ozs

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S224P—Pearl Handle	$17.00	No. 2E224P—Pearl Handle	$17.00

Half Dozen in a Box

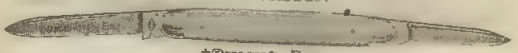


Length 2⅝ inches; German Silver Bolsters; Two Small Pen Blades Glazed, Iron Lining; Weight per Dozen 8 ozs.

*DIAMOND EDGE

No. 2S178P—Pearl Handle ..... Per Dozen $17.00

Half Dozen in a Box

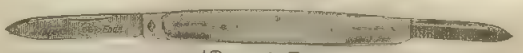


*DIAMOND EDGE

Length 2¼ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 9 ozs.

No. 2S276P—Pearl Handle ..... Per Dozen $15.00

Half Dozen in a Box



*DIAMOND EDGE

Length 2¾ inches, German Silver Bolsters, One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 10 ozs.

No. 2S287P—Pearl Handle ..... Per Dozen $12.00

Half Dozen in a Box

Length 2⅛ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 10 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S273P—Pearl Handle	$21.60	No. 2E273P—Pearl Handle	$21.60

Half Dozen in a Box

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EMPIRE

TWO BLADE PENS

Length 2½ inches; Oval Pattern, One Large Pen and One Small Pen Blade; German Silver Bolsters; Brass Lining; Half Polished Blades; Weight per Dozen 9 ozs.

*DIAMOND EDGE — Per Dozen $12.00

No. 2S461ST—Patent Stag Handle

Length 2¼ inches; Bent or Serpentine Pattern, One Large Pen Blade and One Long File on Back; German Silver Bolsters; Brass Lining, Glazed and Etched Blade; Weight per Dozen 9 ozs.

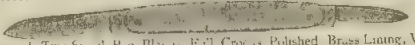
*DIAMOND EDGE — Per Dozen $13 00

No. 2S458ST—Patent Stag Handle

Length 2½ inches; Sleveboard Pattern; One Large Pen Blade and One Long File on Back; German Silver Bolsters; Brass Lining; Half Polished and Etched Blade; Weight per Dozen 11 ozs.

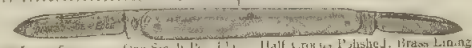
*DIAMOND EDGE — Per Dozen $13.50

No. 2S460ST—Patent Stag Handle



Length 2⅜ inches, Uncapped; Two Small Pen Blades; Full Crocus Polished Brass Lining, Weight per Dozen 8 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S254P—Pearl Handle	$13.50	**No. 2E354P—Pearl Handle**	$18.00



Length 2½ inches, Uncapped; One Large Spear and One Small Pen Blade, Half Crocus Polished, Brass Lining, Weight per Dozen 7 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S272P Pearl Handle	$21 00	**No. 2E272P—Pearl Handle**	$21 00

*DIAMOND EDGE

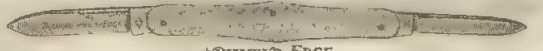
Length 2¾ inches, Uncapped; One Large Spear and One File Blade; Full Polished and Etched; Brass Lining, Weight per Dozen 8 ozs. Per Dozen $24.00

No. 2S238P—Pearl Handle

Length 2¾ inches; Uncapped, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; Weight per Dozen 8 ozs.

*DIAMOND EDGE — Per Dozen $28.00

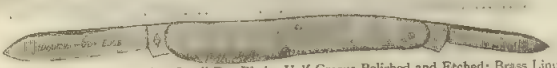
No. 2S320P—Pearl Handle



*DIAMOND EDGE

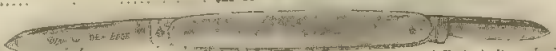
Length 2⅞ inches, Uncapped, One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining, Weight per Dozen 9 ozs Per Dozen $19 20

No. 2S286P—Pearl Handle



Length 3 inches; Uncapped; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 10 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S310P—Pearl Handle	$23 00	**No. 2E310P Pearl Handle**	$28.00



Length 3 inches, Uncapped; One Large Spear and One Small Pen Blade; Full Crocus Polished and Etched, Brass Lining; Weight per Dozen 9 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S334P Pearl Handle	$32 00	**No. 2E334P—Pearl Handle**	$24 00

A Assorted, Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

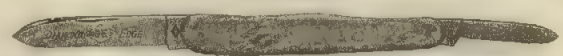
EMPIRE

TWO BLADE PENS

Length 2⅞ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade, Glazed; Brass Lining; Weight per Dozen 9 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S180ST—Patent Stag Handle	$11.70	No. 2E180ST Patent Stag Handle	$11.70

Half Dozen in a Box



Length 3 inches, Unsapped; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, German Silver Lining; German Silver Shield; Weight per Dozen 10 ozs.

*DIAMOND EDGE

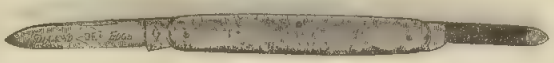
	Per Dozen
No. 2S81P—Pearl Handle	$28.00

Half Dozen in a Box

Length 3 inches; German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 10 ozs

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S258E —Ebony Handle	$13 00	No. 2E258ST—Patent Stag Handle	$13.20
No. 2S258ST Patent Stag Handle	13 00	No. 2E258T —Tortoise Shell Handle	13.50
No. 2S258T —Tortoise Shell Handle	14 00	No. 2E258P —Pearl Handle	21.00
No. 2S258P —Pearl Handle	21.00		

Half Dozen in a Box

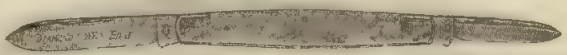


*DIAMOND EDGE

Length 3 inches, German Silver Tipped; One Large Spear and One Pen Blade, Half Crocus Polished and Etched; Brass Lining, Weight per Dozen 11 ozs.

	Per Dozen
No. 2S288P—Pearl Handle	$27 00

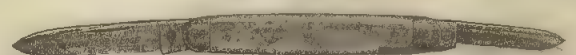
Half Dozen in a Box



Length 3 inches, German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining, Weight per Dozen 12 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S275P—Pearl Handle	$22 00	No. 2E275 —Pearl Handle	$22 00

Half Dozen in a Box



Length 3 inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining German Silver Shield; Weight per Dozen 10 ozs

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S81E —Ebony Handle	$13 00	No. 2E81E —Ebony Handle	$13 00
No. 2 S81ST Patent Stag Handle	13 00	No. 2E81ST Patent Stag Handle	13 00
No. 2S81P Pearl Handle	24 00	No. 2E81P —Pearl Handle	24.00

Half Dozen in a Box

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EMPIRE

TWO BLADE PENS

Length 3 inches, German Silver Tipped, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield; Weight per Dozen 9 ozs.

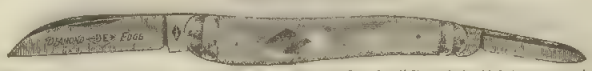
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S257E —Ebony Handle	$13 00	No. 2E257E Ebony Handle	$13 00
No. 2S257ST—Patent Stag Handle	13 20	No. 2E257ST—Patent Stag Handle	13 20

Half Dozen in a Box

Length 3 inches; Polished Steel Rat Tail Bolsters; One Large Wharncliffe and One Small Pen Blade, Half Crocus Polished and Etched, Brass Linings German Silver Shield; Weight per Dozen 10 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S242ST -Patent Stag Handle	$13 50	No. 2E242ST -Patent Stag Handle	$13 50
No. 2S242P —Pearl Handle	25 00	No. 2E242P Pearl Handle	25 00

Half Dozen in a Box



Length 3¼ inches; Polished Steel Rat Tail Bolsters; One Large Wharncliffe and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 15 ozs.

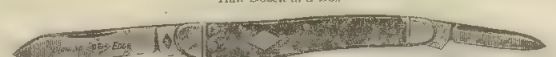
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S139GST—Genuine Stag Handle	$18.00	No. 2E139GST—Genuine Stag Handle	$18 00
No. 2S139P —Pearl Handle	30.00	No. 2E139P —Pearl Handle	30.00

Half Dozen in a Box

Length 3 inches, German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 12 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S32ST—Patent Stag Handle	$13.50	No. 2E32ST—Patent Stag Handle	$13 50
No. 2S32P —Pearl Handle	24.00	No. 2E32P —Pearl Handle	24.00

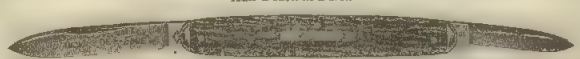
Half Dozen in a Box



Length 3 inches; German Silver Ribbed Bolsters, One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 12 ozs

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S241ST Patent Stag Handle	$14 00	No. 2E241ST Patent Stag Handle	$14 00
No. 2S241GST —Genuine Stag Handle	16 00	No. 2E241GST Genuine Stag Handle	12 00
No. 2S241T —Tortoise Shell Handle	14 50	No 2E241T Tortoise Shell Handle	14 50
No. 2S241P Pearl Handle	26 00	No. 2E241P —Pearl Handle	26.00

Half Dozen in a Box



Length 3¼ inches; German Silver Tipped, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 12 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S106ST Patent Stag Handle	$14 50	No. 2E106ST Patent Stag Handle	$14 50
No. 2S106GST—Genuine Stag Handle	18 00	No. 2E106GST—Genuine Stag Handle	18 00
No. 2S106P Pearl Handle	29 00	No 2E106P —Pearl Handle	29 00

Half Dozen in a Box

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EMPIRE

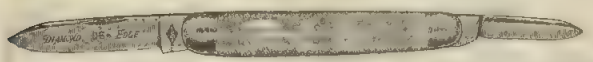
TWO BLADE PENS

*DIAMOND EDGE

Length 3¼ inches: German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 14 ozs.

	Per Dozen
No. 2S277P —Pearl Handle	$19.00

Half Dozen in a Box

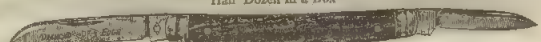


*DIAMOND EDGE

Length 3¼ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.

	Per Dozen
No. 2S299P Pearl Handle	$20.00

Half Dozen in a Box



Length 3 inches, Polished Steel Rat Tail Bolsters; One Large Sheep Foot and One Small Pen Blade; Glazed and Etched; Brass Lining; No Shield; Weight per Dozen 10 ozs.

*DIAMOND EDGE	Per Dozen
No. 2S66½ST —Patent Stag Handle	$11 00
No. 2S66½GST—Genuine Stag Handle	14 00
No. 2S66½P —Pearl Handle	22 00
No. 2S66½G German Silver Handle	8.00

Half Dozen in a Box

*EMPIRE	Per Dozen
No. 2E66½ST —Patent Stag Handle	$11 00
No. 2E66½GST Genuine Stag Handle	14.00
No. 2E66½P —Pearl Handle	22 00
No. 2E66½G —German Silver Handle	8.40

Half Dozen in a Box

Length 3¼ inches, Polished Steel Rat Tail Bolsters; One Large Sheep Foot and One Small Pen Blade; Glazed and Etched, Brass Lining; No Shield; Weight per Dozen 11 ozs.

*DIAMOND EDGE	Per Dozen
No. 2S33½ST —Patent Stag Handle	$12.00
No. 2S33½GST—Genuine Stag Handle	14.00
No. 2S33½P —Pearl Handle	25.00

Half Dozen in a Box

*EMPIRE	Per Dozen
No. 2E33½ST —Patent Stag Handle	$12 00
No. 2E33½GST Genuine Stag Handle	14.00
No. 2E33½P —Pearl Handle	25.00

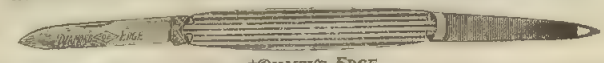
Half Dozen in a Box

Length 3¼ inches; German Silver Ribbed Bolsters; One Large Wharncliffe and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.

*DIAMOND EDGE

	Per Dozen
No. 2S285ST—Patent Stag Handle	$13.00
No. 2S285P—Pearl Handle	$24.00

Half Dozen in a Box



*DIAMOND EDGE

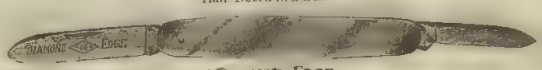
Pyralin Handles; Length 3 inches. Patent Clamped Handle; German Silver Lining; One Large Pen Blade and One Flexible File; Half Polished and Etched; Weight per Dozen 10 ozs.

	Per Dozen
No. 2S399YFN Black and White Striped Handle	$14.00
No. 2S399YFB Black and Gray Striped Handle	14.00
No. 2S399DFF—Gray Pearl Handle	14.00
No. 2S399CCF—Brown and White Mottled Handle	14.00

Same as above, except with One Large Pen and One Small Pen Blade.

	Per Dozen
No. 2S399BC —Silver Clouded Prussian Blue Handle	$13.00
No. 2S399TB —Turquois Blue Handle	13.00
No. 2S399J Golden Pearl Handle	13.00
No. 2S399RSC—Red and Black Striped Handle	13.00

Half Dozen in a Box



*DIAMOND EDGE

Length 3 inches; no Bolsters or Tips; Steel Lining; One Large Pen and One Small Pen Blade. Plain Glazed Blades, Weight per Dozen 20 ozs.

	Per Dozen
No. 2S02N —German Silver Handle	$7.20
No. 2S02FB—Black Fiberloid Handle	7.20
No. 2S02FG—Gray Fiberloid Handle	4.00
No. 2S02ST Patent Stag Handle	7.20

Half Dozen in a Box

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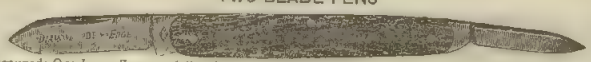
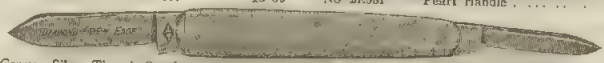
EMPIRE

TWO BLADE PENS



Length 3⅜ inches; Uncapped; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; No Shield; Weight per Dozen 15 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S98ST —Patent Stag Handle	$11 00	No. 2E98ST Patent Stag Handle	$11 00
No. 2S98GST—Genuine Stag Handle	16 00	No. 2E98GST—Genuine Stag Handle	15.00
No. 2S98W —White Bone Handle	13 00	No. 2E98W White Bone Handle	8 00
No. 2S98P —Pearl Handle	28 00	No. 2E98P Pearl Handle	28 00
No. 2S98D —Gray Pearl Pyralin Handle	13 50		



Length 3⅜ inches; German Silver Tipped, One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; No Shield; Weight per Dozen 16 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S193ST Patent Stag Handle	$13 50	No. 2E193ST —Patent Stag Handle	$13.50
No. 2S193GST—Genuine Stag Handle	16 00	No. 2E193GST Genuine Stag Handle	16 00
No. 2S193W —White Bone Handle	15 00	No. 2E193P -Pearl Handle	30.00
No. 2S193P —Pearl Handle	30 00		

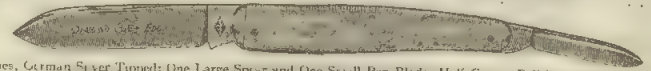
Length 3½ inches, German Silver Ribbed Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining German Silver Shield; Weight per Dozen 17 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S103ST—Patent Stag Handle	$15.00	No. 2E103ST—Patent Stag Handle	$12.00

*DIAMOND EDGE

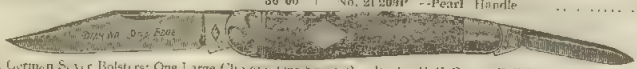
Length 3¼ inches; Oval Pattern; Scored Blades German Silver Bolsters Brass Lining, One Large Pen and One Small Pen Blade; Half Crocus Polished and Etched; Weight per Dozen 14 ozs.

	Per Dozen
No. 2S342J —Golden Pearl Pyralin Handle	$17.00
No. 2S342RO Red Onyx Pyralin Handle	17.00



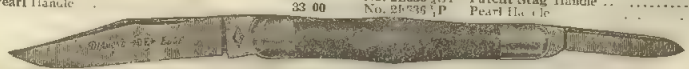
Length 3¼ inches, German Silver Tipped; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S209ST -Patent Stag Handle	15 50	No. 2E209ST Patent Stag Handle	13 00
No. 2S209P —Pearl Handle	30 00	No. 2E209P --Pearl Handle	36 00



Length 3¼ inches, German Silver Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 19 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S336½ST—Patent Stag Handle	$18 00	No. 2E336½ST—Patent Stag Handle	$14.00
No. 2S336½P Pearl Handle	33 00	No. 2E336½P Pearl Handle	27.00



Length 3⅝ inches, German Silver Bolsters, One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 19 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S693/8B —Buffalo Horn Handle	$18 00	No. 2E693/8B -Buffalo Horn Handle	$18.00
No. 2S693/8ST Patent Stag Handle	17 00	No. 2E693/8ST Patent Stag Handle	17 00
No. 2S693/8GST—Genuine Stag Handle	19 20	No. 2E693/8GST Genuine Stag Handle	19 20
No. 2S693/8P —Pearl Handle	35 00	No. 2E693/8P Pearl Handle	35.00

All Above, Half Dozen in a Box

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TWO BLADE PENS

Length 3⅜ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield, Weight per Dozen 15 ozs.

★DIAMOND EDGE,	Per Dozen
No. 2S203 Cocobolo Handle	$13 50
No. 2S203ST—Patent Stag Handle	13.50

Half Dozen in a Box

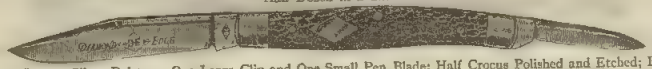
★EMPIRE	Per Dozen
No. 2E203ST Patent Stag Handle	$13 50

Length 3⅜ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 14 ozs.

★DIAMOND EDGE	Per Dozen
No. 2S202 —Cocobolo Handle	$13 50
No. 2S202E —Ebony Handle	13 50
No. 2S202ST—Patent Stag Handle	13.50

Half Dozen in a Box

★EMPIRE	Per Dozen
No. 2E202ST—Patent Stag Handle	$13.50

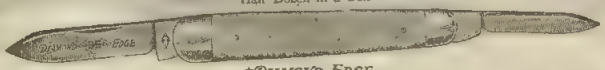


Length 3¼ inches; German Silver Bolsters; One Large Clip and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.

★DIAMOND EDGE	Per Dozen
No. 2S253⅜B —Buffalo Horn Handle	$16 00
No. 2S253⅜ST—Patent Stag Handle	15 50
No. 2S253⅜P —Pearl Handle	28.00

Half Dozen in a Box

★EMPIRE	Per Dozen
No. 2E253⅜B —Buffalo Horn Handle	$16.00
No. 2E253⅜ST Patent Stag Handle	15.50
No. 2E253⅜P Pearl Handle	28.00

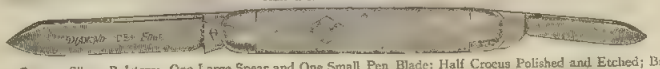


★DIAMOND EDGE

Length 3⅜ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining, No Shield weight per Dozen 19 ozs.

	Per Dozen
No. 2S305ST Patent Stag Handle	$13.20
No. 2S305P—Pearl Handle	$28.00

Half Dozen in a Box

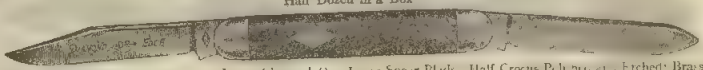


Length 3⅜ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 17 ozs.

★DIAMOND EDGE	Per Dozen
No. 2S42ST—Patent Stag Handle	$15.00
No. 2S42P Pearl Handle	27 60

Half Dozen in a Box

★EMPIRE	Per Dozen
No. 2E42ST Patent Stag Handle	$15 00
No. 2E42P Pearl Handle	27.60

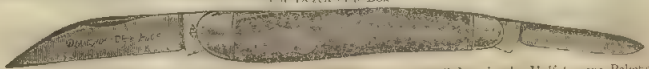


Length 3¼ inches; German Silver Bolsters, One Large Clip and One Large Spear Blade, Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 20 ozs.

★DIAMOND EDGE	Per Dozen
No. 2S43½ST—Patent Stag Handle	$16 00

Half Dozen in a Box

★EMPIRE	Per Dozen
No. 2E43½ST—Patent Stag Handle	$16 00



Length 3½ inches; German Silver Ribbed Bolsters; One Large Wharncliffe and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 19 ozs.

★DIAMOND EDGE	Per Dozen
No. 2S48GST—Genuine Stag Handle	$15 00

Half Dozen in a Box

★EMPIRE	Per Dozen
No. 2E48GST Genuine Stag Handle	$18 00

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

EMPIRE

TWO BLADE PENS

Congress Pattern, Length 3⅛ inches; Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade, Half Crocus Polished and Etched; Iron Lining; Weight per Dozen 14 ozs.

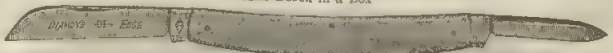
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S10½ST—Patent Stag Handle	$13.00	No. 2E10½ST Patent Stag Handle	$13.00

Half Dozen in a Box

Congress Pattern; Length 3⅞ inches, Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade; Glazed and Etched; Brass Lining; Weight per Dozen 15 ozs

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S221½ST—Patent Stag Handle	$13.00	No. 2E221½ST Patent Stag Handle	$13.00

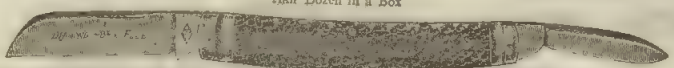
Half Dozen in a Box



Congress Pattern; Length 3⅝ inches; Uncapped; One Large Congress and One Small Pen Blade; Full Crocus Polished and Etched, Brass Lining; Weight per Dozen 13 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S335½P—Pearl Handle	$33.00	No. 2E335½P—Pearl Handle	$33.00

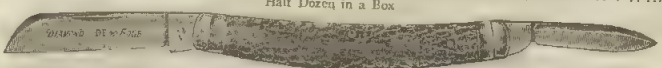
Half Dozen in a Box



Congress Pattern, Length 3¾ inches; Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 21 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S222½ST—Patent Stag Handle	$14.50	No. 2E222½ST Patent Stag Handle	$14.50

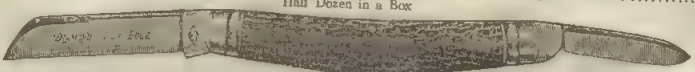
Half Dozen in a Box



Congress Pattern, Length 3¾ inches; Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 22 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S75½ST Patent Stag Handle	$15.50	No. 2E75½ST Patent Stag Handle	$15.50

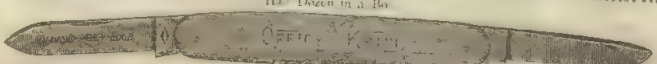
Half Dozen in a Box



Congress Pattern; Length 4 inches; Polished Steel Rat Tail Bolsters; One Large Congress and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining; Weight per Dozen 1⅝ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S223½ST—Patent Stag Handle	$15.70	No. 2E223½ST—Patent Stag Handle	$15.70

Half Dozen in a Box



Office Knife, Length 3¾ inches; Uncapped; One Large Spear One One Large Eraser Blade, Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 18 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S227W—Ivory Finish Celluloid Handle	$13.70	No. 2E227W—Ivory Finish Celluloid Handle	$15.70

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

EMPIRE

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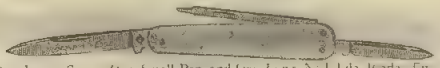
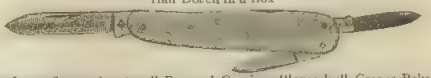
THREE BLADE PENS



Length 2¼ inches; Uncapped; One Large Spear, One Small Pen and One Long Nail File Blade; Full Crocus Polished; German Silver Lining; Weight per Dozen 7 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S339P—Pearl Handle	$22 00	No. 3E339P—Pearl Handle	$28.00

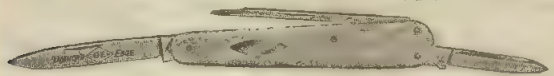
Half Dozen in a Box



Length 2½ inches, Uncapped, One Large Spear, One Small Pen and One File Blade; Full Crocus Polished and Etched; German Silver Lining Weight per Dozen 8 ozs.

* DIAMOND EDGE	Per Dozen	*EMPIRE.	Per Dozen
No. 3S340P—Pearl Handle	$24 00	No. 3E340P—Pearl Handle	$30.00

Half Dozen in a Box



*DIAMOND EDGE

Length 3 inches; Uncapped; One Large Spear, One Small Pen and One Long Nail File Blade; Full Crocus Polished and Etched; German Silver Lining; German Silver Shield; Weight per Dozen 7 ozs.

Per Dozen

No. 3S65P Pearl Handle $48.00

Half Dozen in a Box

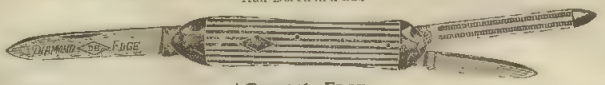
*DIAMOND EDGE

Length 3¼ inches; Uncapped; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; German Silver Lining; Weight per Dozen 14 ozs.

Per Dozen

No. 3S338P—Pearl Handle $33 00

Half Dozen in a Box

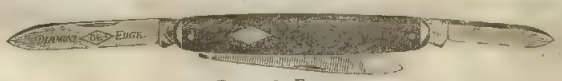


*DIAMOND EDGE

Pyralin Handles; Length 3 inches; Fancy German Silver Bolsters; German Silver Lining; One Large Pen Blade, One Small Pen Blade and One French Nail File on Back; Half Polished and Etched Blades; Weight per Dozen 14 ozs.

	Per Dozen
No. 3S354YN Black and White Striped Handle	$24 00
No. 3S354J —Golden Pearl Handle	24 00
No. 3S354TB —Turquois Blue Handle	24.00
No. 3S354CC Brown and White Mottled Handle	24 00

Half Dozen in a Box

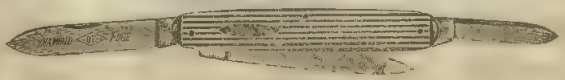


*DIAMOND EDGE

Length 3 inches; German Silver Tips, German Silver Mixed Lining; One Large Pen Blade, One Small Pen Blade and One Long Flexible Nail File; Half Polished and Etched Blades, Weight per Dozen 18 ozs.

	Per Dozen
No. 3S362J —Golden Pearl Pyralin Handle	$30 00
No. 3S362P—Mother of Pearl Handle	38 00

Half Dozen in a Box



*DIAMOND EDGE

Length 3¼ inches; German Silver Tips and Shield; Brass Lining, One Large Pen Blade, One Small Pen Blade and One Long, Stiff Nail File; Half Polished and Etched Blades Weight per Dozen 18 ozs

Per Dozen

No. 3S375YN—Black and White Striped Pyralin Handle $21.00

Half Dozen in a Box

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EMPIRE

THREE BLADE PENS

*DIAMOND EDGE

Length 2¾ inches; German Silver Bolsters, One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 11 ozs.

	Per Dozen
No. 3S287P—Pearl Handle	$16 00

Half Dozen in a Box

Length 3 inches; German Silver Bolsters, One Large Spear, One Small Pen and One File Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Bolster; Weight per Dozen 14 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S258ST Patent Stag Handle	$18 00	No. 3E258ST Patent Stag Handle	$18.00
No. 3S258P —Pearl Handle	27 00	No. 3E258P Pearl Handle	27.00

Half Dozen in a Box

Length 3 inches, German Silver Bolsters, One Large Spear, One Small Pen and One File Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 14 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S81ST—Patent Stag Handle	$18.00	No. 3E81ST—Patent Stag Handle	$18.00
No. 3S81P —Pearl Handle	27.00	No. 3E81P —Pearl Handle	27.00

Half Dozen in a Box

Length 3 inches, German Silver Bolsters, One Large Spear, One Small Pen and One File Blade, Half Crocus Polished and Etched, Brass Lining; Weight per Dozen 15 ozs.

*EMPIRE

	Per Dozen
No. 3E259GST—Genuine Stag Handle	$21.00

Half Dozen in a Box

Length 3 inches; Polished Steel Rat Tail Bolsters; One Large Wharncliffe and Two Small Pen Blades, Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 15 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S242ST Patent Stag Handle	$19 20		
No. 3S242P —Pearl Handle	30 00	No. 3E242P —Pearl Handle	$30 00

Half Dozen in a Box

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POCKET KNIVES

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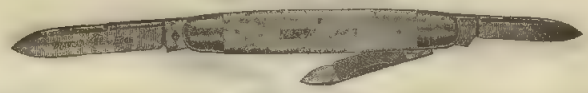
EMPIRE

THREE BLADE PENS



Length 3¼ inches; German Silver Bolsters; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 17 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S104ST—Patent Stag Handle	$19.30	No. 3E104ST—Patent Stag Handle	$19.30
No. 3S104P —Pearl Handle	30.00	No. 3E104P —Pearl Handle	30.00

Half Dozen in a Box

Length 3¼ inches; German Silver Bolsters; One Large Spear and Two Small Pen Blades; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 20 ozs.

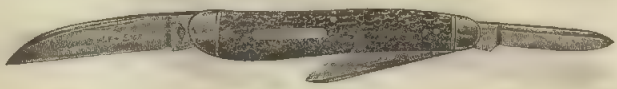
★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S220ST Patent Stag Handle	$19.20	No. 3E220ST Patent Stag Handle	$19.20

Half Dozen in a Box

Length 3½ inches; German Silver Capped; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched: German Silver Lining; Hand Milled; German Silver Shield; Weight per Dozen 19 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S105ST—Patent Stag Handle	$25.00	No. 3E105ST—Patent Stag Handle	$25.00
No. 3S105P —Pearl Handle	42.00	No. 3E105P Pearl Handle	42.00

Half Dozen in a Box



★DIAMOND EDGE

Length 3⅝ inches; German Silver Bolsters; One Large Wharncliffe and Two Small Pen Blades; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 18 ozs.

	Per Dozen
No. 3S285ST —Patent Stag Handle	$22.00

Half Dozen in a Box

Length 3⅛ inches; German Silver Bolsters; One Large Wharncliffe and Two Small Pen Blades; Half Crocus Polished and Etched; Brass Lining German Silver Shield; Weight per Dozen 22 ozs.

★DIAMOND EDGE	Per Dozen	★EMPIRE	Per Dozen
No. 3S48GST—Genuine Stag Handle	$24.00	No. 3E48GST—Genuine Stag Handle	$24.00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

DE — Shapleigh Hardware Co. — Diamond Edge

EMPIRE

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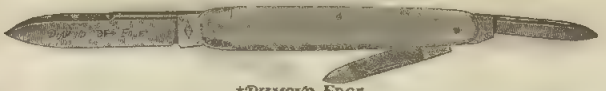
THREE BLADE PENS



*DIAMOND EDGE

Length 3¼ inches; German Silver Bolster, One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 19 ozs.

Per Dozen

No. 3S298P—Pearl Handle $21.00

Half Dozen in a Box

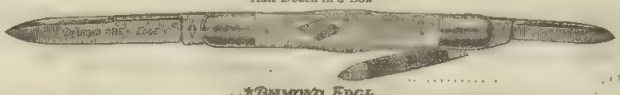
*DIAMOND EDGE

Length 3¼ inches; German Silver Bolster; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield, Weight per Dozen 22 ozs.

Per Dozen

No. 3S341P—Pearl Handle $36 00

Half Dozen in a Box

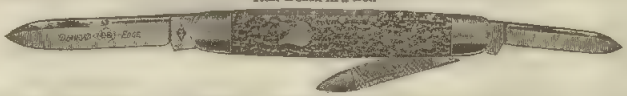


*DIAMOND EDGE

Length 3¼ inches; German Silver Bolsters; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 18 ozs.

	Per Dozen		Per Dozen
No. 3S280ST Patent Stag Handle	$16 00	No. 3S280P—Pearl Handle	$24.00

Half Dozen in a Box



Length 3¼ inches; German Silver Bolsters; One Large Spear, One Small Pen and One File Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 22 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S103ST—Patent Stag Handle	$21.00	No. 3E103ST—Patent Stag Handle	$21 00
No. 3S103P —Pearl Handle	36 00	No. 3E103P Pearl Handle	36.00

Half Dozen in a Box

Length 3¼ inches; German Silver Bolsters; One Large Clip, One Small Coping and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 22 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No 3S308½D —Smoked Pearl Finish, Celluloid Handle.	$21 00	No. 3E308½D —Smoked Pearl Finish, Celluloid Handle.	$21 60
No. 3S308½ST—Patent Stag Handle	20 00	No. 3E308½ST Patent Stag Handle	20 00
No. 3S308½P —Pearl Handle	34.00	No. 3E308½P —Pearl Handle	34 00
No. 3S308½H —Cornelian Celluloid Handle	21 60	No. 3E308½H —Cornelian Celluloid Handle	21.60

Half Dozen in a Box

Length 3¼ inches; German Silver Bolsters; One Large Clip and Two Small Pen Blades; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 21 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 3S336½ST—Patent Stag Handle	$17 50	No. 3E336½ST —Patent Stag Handle	$21 60
No. 3S336½P —Pearl Handle	30 00	No. 3E330½P Pearl Handle	36 00

Half Dozen in a Box

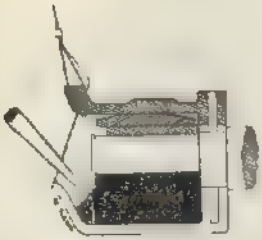
Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

Aycock Positive Oiler

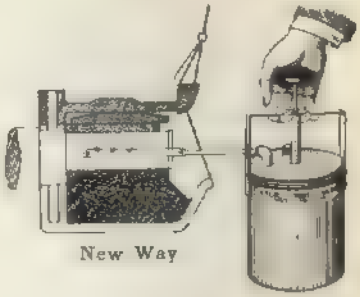
Journal Lubrication

Proper lubrication of journal bearings is an important factor in operation of trains. Eliminates hot box troubles, creates efficiency, avoids waste of oil and expense of cutting out cars

Application of Oil



Old Way



New Way

Present Method of Lubrication

1 The oil is not applied where needed but must find its way to the point of friction best it may.

2 It is entirely dependent upon the action of gravity and in cold or freezing weather this objection is increased.

3 There is no gauge upon the quantity of oil used, and there is either a waste or a deficiency

4 A hot bearing or one showing evidence of becoming hot cannot be reached The car must be cut out with frequently great delay and inconvenience if not demoralization of traffic

It is evident that this method is a crude relic of ancient practice and should be superseded by a better one if such can be found.

A very positive need exists for an appliance which will do away with these objections and be simple of operation.

We have that appliance and its universal adoption is merely a question of time The more progressive will adopt it first and be followed by the others in due course.

The Aycock Positive Oiler

A journal oiler in which the oil is measured Applied just where it is needed In less time No waste of oil.

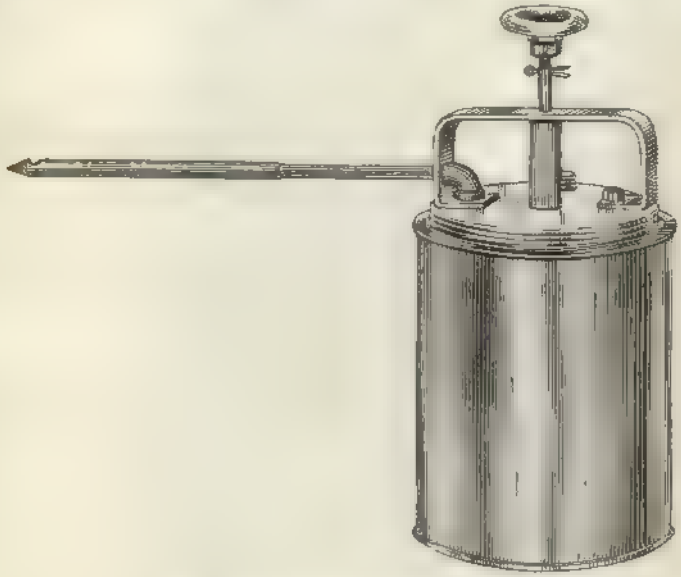
The Aycock Oiler is simple and thoroughly effective.

1 By means of the flat spout the oil is applied to the bearing the full length of journal

2 The pressure of the hand that carries the oiler forces the oil through the spout. No waiting for gravity.

3 Each pressure of the hand forces through the spout exactly one ounce of oil No more no less This adjustment may be changed if desired, but in any case the quantity is uniform)

4 An Aycock Oiler on every train as well as at each oiling station will effectually reduce if not eliminate hot box trouble as long as any life remains in the packing.



No. 133 Aycock Positive Oiler

The construction of the Aycock Oiler is as follows

A 1 gallon can extra heavy A screw over from which a pump is suspended The piston protrudes through the cover and through the bale and is capped with a knob At the bottom of the pump cylinder are two valves As the piston is forced upward by a spring between the bale and the cover one ounce of oil is drawn into the cylinder.

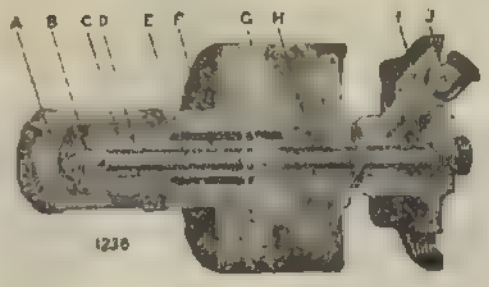
Then as the pressure is applied to the knob the oil is forced out through the other valve and through the spout The travel of the piston is fixed, therefore the amount of oil is fixed as there can be no leakage

FAN MOTORS

EMERSON

Emerson 1915 Model Desk Fans and Oscillators are packed one in a Box and are supplied by the Factory complete with Ten-Foot Parallel Cord and Rotating Edison Plug, attached to Motor, with Direction Sheet, ¼ Pint Can of Oil and Five Year Guarantee Coupon attached to Motor.

The Illustration Herewith is a Photograph of an actual Cross Section of the Emerson Induction Armature, Fan Hub and Shaft. This Bearing is Entirely Different in principle from the Bearings of Ordinary Types of Desk Fans. Instead of a Rotating Shaft of Soft Steel, to which the Armature is Pinned, the Shaft of the Emerson Fan is a Hollow Steel Spindle (F) Pressed Firmly into the Rear Housing of the Motor (I). The Armature (G) Rotates upon this Shaft and is Entirely Separate from the Shaft. A Stud (E) passes through this Shaft and Holds a Retaining Screw with Washers (B) at the Front end to keep the Armature in position.



The Armature Hub (C) is threaded at the Front End to Receive the Fan Hub (A) which is Screwed on Firmly Against a Leather Washer which makes an Oil-Tight Joint Between the Solid Fan Hub and the Armature Hub. Thus, the Front end of this Bearing is Sealed Oil-tight, Eliminating any Possibility of Oil Reaching the Fan Blades to be Scattered Over Furnishings or Decorations.

The Simple and Wonderfully Effective arrangement for Lubricating this Bearing has been Largely Responsible for its Success During the Fifteen Years it has been in Use. Oil is Inserted through the Oil-Cup (J) and Runs into the Center of the Hollow Shaft, through the Slotted Holes (D-H) in the Shaft, Directly to the Bearing Surfaces of the Armature, where it is needed

The Combination of Wearing Surfaces in this Bearing has been proven by Experience to be Highly Satisfactory for a Bearing of this Character. The Hollow Shaft or Spindle is of Case Hardened Steel, while the Armature Hub Running on this Spindle is of Soft Cast Iron. It Seems that no Better Combination of Wearing Surfaces can be Procured.

The Soft Porous Iron Absorbs the Oil, and in a Short Time the action of the Hardened Steel Surface of the Shaft Develops a Glaze on the Iron which is an Ideal Bearing Surface. Tests made on Fans which have seen many years of Continuous Service show this Bearing to be in even Better Condition than when the Fans left the Factory.

It will be noted that the Armature Hub Midway Between the Bearing Surfaces is Recessed, Leaving a space between the Shaft and the Cast Iron Hub. This Recess is Filled with Lubricating Grease when the Fan Motor is Shipped, Insuring Perfect Lubrication for Some considerable Time, Even should the User Fail in the Ordinary Precaution of Supplying Oil to the Bearing.

One of the Secrets of the Success of this Bearing is the fact that it is Sealed at the Front End, and Practically Sealed so far as the Entrance of Dirt is Concerned, at the Rear End. Oil Remains on the Bearing Surfaces Until its Lubricating Qualities are Exhausted, and Dirt, Sand and Dust Floating in the Air Cannot Enter the Bearing to Cut and Grind it.

All Types and Sizes of Emerson Alternating Current Desk and Oscillating Fans are Equipped with the Hardened Steel Oil-Tight, Dust-Proof Bearing Described Above.

All Sizes of Emerson Desk and Oscillating Fans for Both Alternating and Direct Currents are Equipped with Fan Blades of a Patented Design Selected after Exhaustive Experiments with Blades of Different Characteristics. The Original Parker Design used on Emerson 12-inch Fans has been Successfully Modified to Meet the Requirements of 8-inch Fans and 16-inch Fans, but Retains the Essential Features which have Made this Design so Valuable.

The Parker Blade is a Rigid Sheet of Brass with a Curved Cutting Edge. The Rear Edge is so Shaped as to Minimize the Vioration which Results in the Hum of Ordinary Desk Fan Blades.

Where Necessary this Blade is Made unusually wide near the Hub to Project Air from the Center as well as from the Outer Circumference of the Fan. The Pitch or Dip of Parker Fan Blades is Considerably Greater than Found in a majority of Competitive Makes, Enabling these Fans to Project Air to a Great Distance without Objectionable Noise.

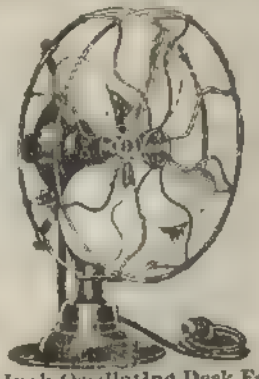
The Smallest Emerson Fan May be Converted to the Bracket Position without Extra Parts

All Emerson Fans for Alternating Current are Fan Motors of the Induction Type. This is the Simplest Known Form of Motor and, in the Design Employed for Emerson Fan Motors, has Neither Brushes nor Commutator, nor Moving Contacts of any Kind.

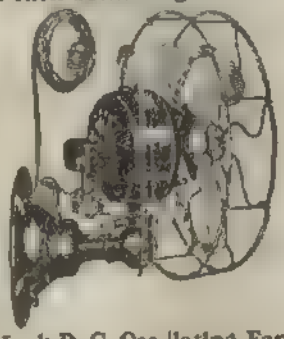
Emerson 1915 Models Oscillators have valuable Improvements in the Mechanism, by which the Range of Oscillation may be varied from 150 to 90°, of the stationary position secured by adjusting a Single Thumb Lever below the Gear Case. The Mechanism has been greatly Simplified and all loose parts eliminated.

A new feature is the Adjusting Collar beneath the Motor, by which the direction in which the breeze is thrown may be instantly changed to put the breeze where it is wanted without re-adjusting the Base. This feature is particularly valuable where the Motor is installed as a Bracket Fan with Base fastened to the Wall. The Adjusting Handle in the Collar points in the direction in which the breeze will be thrown.

These Oscillators are Equipped with a Hinged Base Permitting the Blades to be Tilted Up or Deflected as may be Desirable. By Withdrawing the Thumb Screw at the Hinge, this base may be Adjusted to the Angular Position, and the Base Fastened Directly to the Wall. The Hinged Joint is so Designed that the Motor would not be Damaged by Falling Forward, Even Should the Thumb Screw be Fastened Insecurely. When Used as a Bracket Fan the Blades May be Tilted Up or Deflected as well as when Used as a Desk Fan, Permitting the Oscillators to be Placed Well Above the Occupants of a Room, and Tilted Down to Distribute the Breeze over Many Persons, without Annoyance to those Nearest to the Fan.



12-Inch Oscillating Desk Fan



12-Inch D. C. Oscillating Fan in Bracket Position
Blades may be Deflected to Throw Breeze Down when Mounted on Wall

Owing to the Wide Diffusion of Air Secured with Oscillating Fans, the Blades of Emerson Oscillators are Adjusted to Throw a Stronger Breeze than Thrown by Non-Oscillating Fans of Corresponding Styles. As a Result, Emerson Oscillating Fans Consume a slightly Larger Amount of Current than Corresponding Sizes of Emerson Swivel-Trunnion Fans, but for an Extra Current Required by the Motor the User Receives Full Value in Increased Volume of Air Delivered.

All Emerson Oscillating Fans are Three-Speed Positive-Acting Geared Types, not Dependent on air Reactions for their Swinging Movement. As a Result these Fans Oscillate Steadily in any Position as Desk or Bracket Fans.

Emerson Oscillators have all the Other Valuable Features of Emerson Swivel-Trunnion Fans, Described on Previous Pages. They are Induction Fans without Brushes, Commutator or moving contacts of any kind. Motors of this kind, Equipped with the Oil-Tight, Dust-proof Bearing of the Emerson Fan, are sure to give long Service.

These Fans Should not be Confused with Oscillators Depending on Moving Vanes and Uncertain Air Reactions for their Swinging Movement.

Handlan Train Indicators

For Safety and Accuracy in Train Movements

Train Identification

The question of safety in train identification has always been a matter of important consideration on American railways principally due to the necessity of handling trains by telegraphic instructions in order to secure expeditious movement of traffic

Locomotive Numbers

The various methods used by different railways to display engine numbers at night by illumination from the headlight and the experimenting still going on indicate the imperfections which exist with an absolutely perfect display of engine numbers We do not believe they will ever reach the acme of successful operation because they are only an intermediary means of arriving at the proper identification or in other words, a means to an end Besides engine numbers embodied in orders entail upon employes the necessity of remembering both engine and train numbers which creates confusion and makes them more liable to forget or transpose the engine number with resultant possibilities of disaster Another serious fault to be found with this auxiliary mode of identification is that engine numbers are of absolutely no use in identifying trains except when the number of the locomotive is embodied in a train order.

Train Numbers

As the years go by, they bring ever increasing demands for improvements to meet changing conditions and secure greater safety in the operation of trains and one of these seems to be the question of a simple safe means of identification of trains at ALL TIMES regardless of their class, without the necessity of the intermediary confusing means used at present to identify them. The great increase in the number of trains to be moved both freight and passenger, the high speed at which the latter are run, the numerous cases of mistaken identity in the past with the possibility of a recurrance in the future has caused us to endeavor to perfect a train number indicator that would convey a positive identification concerning ALL TRAINS, combined with simplicity of operation clearness of information, and the future prospect of doing away with the necessity of inserting locomotive numbers in train orders with their complicated movements and attendant evils

This indicator being an innovation in railway usage, and train identification being of such vital importance in securing safe operation of trains, we bespeak for this device an opportunity of demonstrating its worth by a practical service test, believing it will simplify movements and make assurance doubly sure and materially assist in obtaining greater Safety in Train Identification

Handlan Train Indicator

For Electric Lamps Only

No. 245 Engine Indicator Showing Type of Bracket

No. 246 Engine Indicator

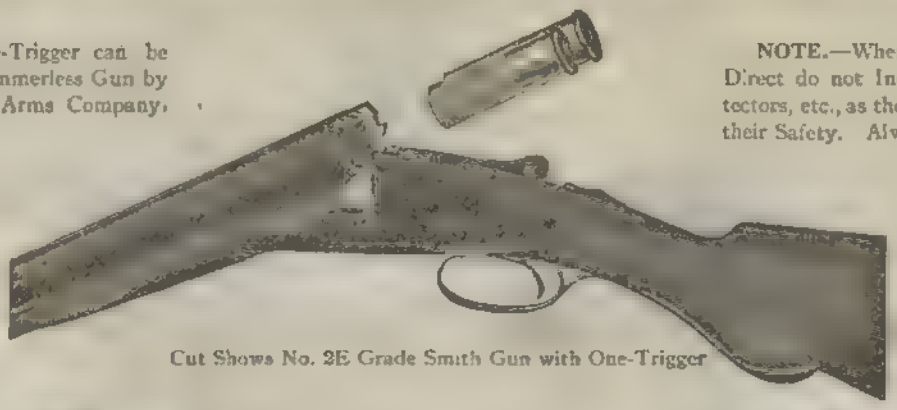
Same type of brackets used as on No 245

Notice case for extra stencils attached to indicator Very convenient in making changes

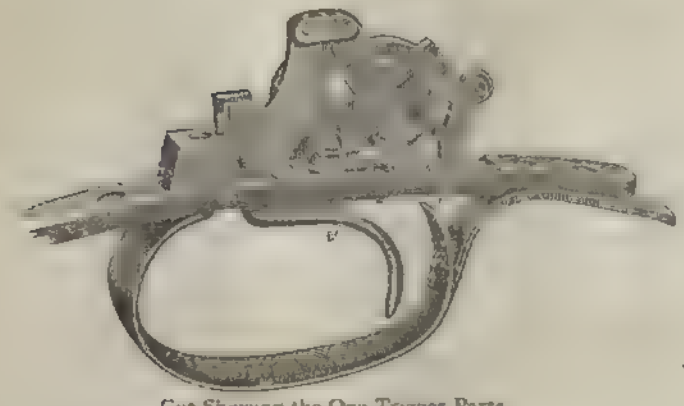
THE HUNTER ONE-TRIGGER ON L. C. SMITH HAMMERLESS SHOT GUNS

NOTE.—The Hunter One-Trigger can be Fitted to any L. C. Smith Hammerless Gun by having Gun Sent to Hunter Arms Company, Fulton, N. Y.

NOTE.—When Sending Guns to Factory Direct do not Include Gun Cases, Hand Protectors, etc., as they will Not be Responsible for their Safety. Always Prepay Express Charges.



Cut Shows No. 2E Grade Smith Gun with One-Trigger



Cut Showing the One-Trigger Parts

Mechanism, Exaggerated Size

The Hunter One-Trigger is Exceedingly Strong, the Parts are Large and Strong, is Independent of any Recoil, is Set Frictional and will never Hang when Pulling for the Second Barrel.

Operation of Mechanism—The Post "D" forms a Hook for the Engagement of the Spur "B." This Post is not an Additional Piece, but is used in both the One and the Two-Trigger Guns to Support the usual Top Safety Mechanism. The Pulling of the Trigger Causes the Firing Plate "A" to Rise and Fire the First Barrel; at the Same Time the Spur "B" Disengages the Hook of the Post "D" and Presents the Second Barrel for Firing. When the First Barrel is Fired the Recoil Carries the Gun [illegible] Finger, and if the Gun be held [illegible] Mechanism Assumes its Original Position and Remains [illegible] Trigger and Finger Takes Place. If the Gun be held Tightly, this Impact Occurs while the Spur "B" is on its way to its Original Position. In Either Case the Spur "B" Engages the Hook "D" under the Rebound and Prevents the Premature or Double Discharge. Thus it is Evident that it makes no Difference Whatever how the Gun is Held; whether the Recoil [illegible] Spur "B" is Always in Position to Prevent Double Discharge.

The Operation of Firing the Second Barrel [illegible] Mechanism [illegible] Double Discharge. After the Recoil and Rebound Cease, the Slight [illegible] of the Trigger will Permit the Spur "B" to Disengage from [illegible] and Rest upon the Elevated Stud "F," thus Bringing the Parts into Position to Fire the Second Barrel Instantly. In order to meet Certain Peculiar Actions of Recoil and Incorrect Methods of Holding a Gun, a Pivoted Weight, "C," is Employed, which is Operated by [illegible] on the Lower End of this Weight Lever is a Stud, "L," which, on the Recoils, Drives the Spur "B" into its Blocking Position, Regardless of the Recoil and Methods Alluded to Above.

Trigger Pull and Speed—The Trigger Pull of the Hunter One-Trigger is Short, Clean and Quick. There is no Drag or Creep; the Speed of the Mechanism Far Exceeds that of the Firing Finger, therefore Both Barrels can be Discharged just as Fast as the Trigger can be Pulled, a Feature which will be Greatly Appreciated by both Brush and Trap Shooters

Selective Action—This Action is Simplicity Itself. The Selective Button Controlling the Order of Firing is Conveniently Located at the Side of the Trigger. Pushing the Button Backwards Exposes the Letter "L," Indicating "Left First." Moving it Forward, Concealing "L" and Exposing "R," Indicates "Right First." The Sportsman can [illegible] at Left, Left and Right, all Rights, all Lefts. As the Button is Moved unless the Order of Firing is to be Reversed, there is Exactly the same Control over the Firing as in a Two-Trigger Gun.

Misfits—In all Two-Trigger Guns, Changing from One Trigger to the Other either Shortens or Lengthens the Stock about an Inch. If a 14 inch Stock Fits a Sportsman, a 13 inch certainly does not; hence, One Shot is Fired from a Gun that Fits Perfectly, and the Next Shot from a Gun that does not Fit at all. In other Words, a Two-Trigger makes it Necessary for a Shooter to Constantly Try to Get Accustomed to Two Lengths of Stock, while he does not get used to Either. That is why so many Second Shots are Missed.

Numbness—The Sportsman can Shoot the Hunter One-Trigger just as well with Thick Gloves as with the Bare Hands, Owing to the very Short Release and the Ample Space in Front of the Trigger. This Special Feature makes Shooting from a Duck Blind Decidedly Comfortable.

Fiddling—In the Hunter One-Trigger One Firm, Steady Grip is Maintained for Both Barrels. There is no Relaxing, no Regripping, no Reaccommodating Oneself to the Different Lengths of Stock, nor to a Different Trigger in a Different Place and of Different Shape. A Sportsman can Hardly Appreciate, until he has Tried the Hunter One-Trigger, just How much of a Benefit this Firm, Steady Grip is. In other words, while he is "Fiddling" around, Adapting himself to these Changes in the Two-Trigger Gun, his Bird is Rapidly Moving out of Range, while, on the other hand, the One-Trigger so Completely Removes all these Handicaps that in every case it Means a Better and Surer Shot.

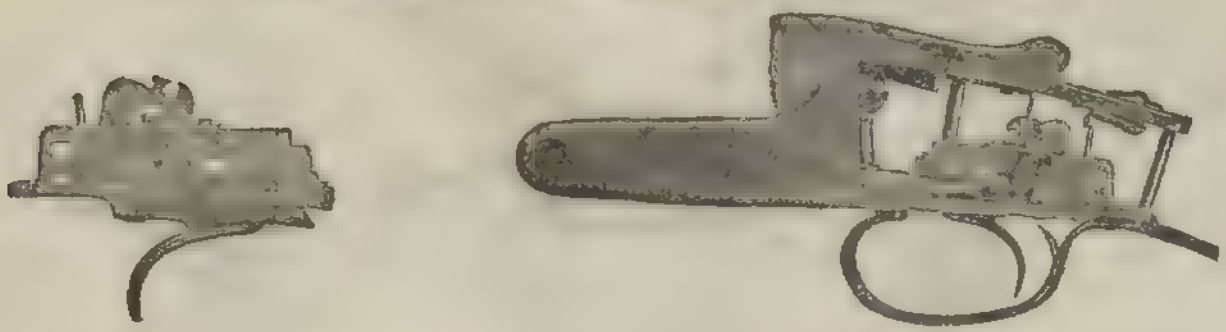
What You Think—When a Quick, Double Shot is Made with a Two-Trigger Gun, the Sportsman Probably thinks that he Moves only the Firing Finger of the Right Hand, while Instantaneous Photography Shows that the Entire Hand is Moved and that it is Unclasped and Regripped. This Delay is another Fruitful Source of Missing with the Second Barrel.

Lacerations—Sportsmen have had Experience in Padding the Rear Curve of the Trigger Guard [illegible] to Protect Front Finger [illegible] Two-Trigger Gun the Second Finger is Brought much Nearer the Guard than it should be, with the Result that the Recoil Jams the Guard into the Finger. Sometimes the Front Trigger is Wrapped, because when Pulling the Rear Trigger the Gun Recoils and Jams the Front Trigger into the Trigger Finger. The Result is that Flinching Becomes a Habit the Moment the Finger gets Sore. Neither Sore Fingers nor Flinching are Calculated to Improve the Sportsman's Shooting. The Hunter One-Trigger Renders these Conditions Impossible.

	Each
†**Hunter One-Trigger** on Field, Ideal and Trap Grades New L. C. Smith Hammerless Shot Gun	$35 00
†**Hunter One-Trigger**—Crown, Monogram, Premier and De Luxe Grades L. C. Smith Hammerless Shot Gun to a Hunter One-Trigger; the Work will be as Finished and as Complete as on a New Gun	$5 00

Items Marked † Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory, Fulton, N. Y.

SINGLE TRIGGERS FOR DOUBLE BARREL SHOT GUNS



Cut shows Infallible Single Trigger applied to Parker Gun

INFALLIBLE

Description and Claims

1. The Infallible Single Trigger will fit and can be put in any regular Hammerless Double Gun, old or new, without marring the Gun.
2. It is the only Single Trigger that requires no perceptible release to fire the second shot. Just don't pull until ready to shoot. It is the quickest Trigger on earth.
3. It will double the efficiency of your Gun as the second shot is almost invariably a "Clean Kill." You do not lose your aim in reaching for the other Trigger, or in releasing as with a Double Trigger Gun.
4. It is the only Trigger that will fire both Barrels at one pull, it is fired making a flash impossible.
5. It will last as long as your Gun and the Factory will keep it in repair free. Transportation not included.
6. All Parts are Interchangeable and easily replaced.
7. The Mechanism for each side is independent, and your Gun is not entirely disabled by accident to one side. Same advantage as with the Double Trigger Gun.
8. The Indicator is on top of the Gun and you can fire either Barrel at will for Long or Short Shots.
9. Either Right or Left Barrel can be fired consecutively by a Pull of the Trigger for Each Barrel. This feature is most important, as it can be changed instantly with Fingers Still on Grip and Trigger, to suit the conditions of the Shoot.
10. It does not require taking away of the weight as it is in replacing a Double Trigger, as its location in the frame stiffens the Gun.
11. Double Triggers set in the long recoiling and slide of the Gun, caused by the recoil. Injury to the hand results in flinching which in turn is an obstacle to making a good score. **Not so with the Infallible Single Trigger.**
12. The Infallible Single Trigger affords more room within the Trigger Guard, so that in cold weather you can shoot as well with Gloves as with the naked Hand.

	Each
Infallible Single Trigger	**$30 00**
Infallible Single Trigger fitted to any make of Double Barrel Shot Gun	**35 00**

FOX-KAUTZKY

The latest notable attraction to Fox superior Features is acknowledged to be the Premier of Single Triggers. It stands the Fox Test. It is recommended and guaranteed by the A. H. Fox Gun Company; it exceedingly simple, mechanically perfect and operated by the locks of the Gun. There is no part that can wear or break. Your Locks being in Order, the Trigger will always operate Perfectly.

It Will Never Balk

And being absolutely independent of Recoil, no matter how fast you shoot the Single Trigger will not engage the Lugs of the Second Barrel unless you release it. In other words—

It Cannot Double

Just release the Trigger finger and you Engage the Trigger for the Second Shot. Then all is ready "to let her go!" There add to this advantage the Fact that with this Trigger there is

No Creep Possible

Guaranteed to be perfect in all parts demanded of a Single Trigger.
An examination of the working parts of the FOX-KAUTZKY Single Trigger. It has been successfully applied to FOX Guns for the last [illegible] years. It is a [illegible] device that gives the shooter the [illegible] possible to obtain. It is the FOX method of [illegible] the single trigger have been met by a mechanism so startling in its simplicity that one wonders upon examining it why it was not thought of and used long ago.

The recoil of a gun from a fired shot, after firing, sets the trigger against the firing finger. This is the cause of doubling. It is easy to see how the pressure of the finger also resists the recoil. By the use of a [illegible] in the FOX-KAUTZKY Single Trigger, as the finger presses it and firing gun, it is the only single trigger that corresponds is released by a positive mechanical trigger lock.

The value of the automatic safety is quite generally recognized by all manufacturers and users of fire arms. Yet the FOX-KAUTZKY is the only single trigger having the automatic safety on the market today. In these days of "Safety First" this appeals strongly to the experienced sportsman who knows the value of proper precautions.

It is absolutely selective by means of the simple safety convenient to the finger, which is provided with indications by the letters L and R which barrel is set to fire first. It will shoot right and left or left and right, as desired. When one barrel has been fired, it returns automatically to that barrel without action on from the shooter. Thus it will fire all right and left, as it is up to the trigger, when it is through the safety.

The single trigger fits easily in the space required by the ordinary two trigger mechanism, so that there is no extra cutting away or weakening of stock or frame.

	Each
Fox-Kautzky Single Trigger, Fitted to any **Fox Gun**	**$33.00**

NOTE—When ordering us to have Triggers fitted, be sure to mark name and address clearly and **prepay** Transportation Charges.

Acetylene Gas Headlights for Locomotives

We show herewith a few styles of acetylene gas headlights. Any oil headlight shown on preceding pages can be converted into acetylene burning headlights.

No. 545B

No. 545B

12½-inch. For traction or narrow gauge engines. Gas generator for above, shown on page 225.

For prices, see page 228.

No. 6B

Made in 14-inch size only. Gas generator for above shown on page 225.

For prices, see page 228.

No. 6B

Acetylene Gas Headlights for Locomotives

No. 584B

No 484B made in sizes 16, 18, 20 and 23-inch

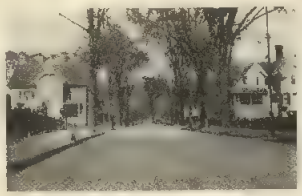
No. 583B same as above, except has side number frames

A low priced but substantial gas headlight for light road engines, or switching engines A suitable headlight for lumber or logging roads

We manufacture other styles of small gas headlights suitable for small locomotives, wrecking cars, cranes, dredges and other equipment desiring a strong and inexpensive lighting system.

Gas generator for above shown on page 225.

For prices, see page 228.



ROADWAY ECONOMY

SOLVAY Granulated Calcium Chloride keeps roads clean, dustless, durable and sanitary at a minimum expense.

SOLVAY
Granulated
Calcium Chloride

can be applied by ordinary road-laborers, and a few applications a season are sufficient to keep the road in perfect condition all the year round.

Solvay Granulated Calcium Chloride is a dry, stainless, colorless, odorless chemical salt — unquestionably the most economical and satisfactory dust preventive and road binder.

All interested in good roads are invited to write for the "Solvay Road Book", mailed free upon request.

SEMET-SOLVAY CO.
410 Milton Ave. :: Solvay, N. Y.

Adams Grader Building an Illinois Road

Maintains Better Streets At Less Cost

For grading and shaping-up gravel or macadam streets at a saving in time and money, use the Adams Grader or Grader-Scarifier. It leans its weight against the load, thereby moving *more* dirt with *less* power.
The

ADAMS
ADJUSTABLE
Leaning-Wheel
GRADER

is guaranteed in actual road building or maintenance, to move more dirt with less power (mold board scouring and without side draft on the power) than any other grader of same length blade.

The economy and efficiency of the ADAMS Adjustable Leaning-Wheel Grader can be PROVED by TEST on your own road, before a sale is made. Write for free illustrated catalog showing ADAMS Adjustable Leaning-Wheel Graders at work under various conditions. Ask for Catalog C.

The ADAMS Leaning-Wheel Grader leans against the load just as you'd do if you were pushing a wheel-barrow up a hill. Catalog C gives full information.

and so does the ADAMS grader

J. D. ADAMS & CO.
Road Building Machinery
INDIANAPOLIS, IND.

Every detail of construction in

KOLESCH Instruments

has been studied in order to give you an instrument unequalled for accuracy, with great strength, and light weight
Kolesch Quality means unvarying reliability.

We will gladly send Municipal Engineers

an Instrument to test and try out, absolutely without obligation to purchase, unless it proves to be "the instrument you want."

Engineering Instruments and Supplies

KOLESCH & CO., 138 Fulton Street, New York

DIXON'S SILICA-GRAPHITE PAINT

Pigment Flake Silica-Graphite
Nature's own product, mined from the same bed. The silica is hard, the graphite is soft, each helps the other, both practically indestructible—an ideal pigment for protective purposes.
Vehicle-Boiled Linseed Oil
No paint vehicle has yet been found to equal linseed oil—the only improvement is to boil it.
Our Part
We blend the silica-graphite and best quality boiled linseed oil by long, careful and scientific grinding, into a harmonious, protective paint that for over 80 years has been making long time records for endurance and low cost.
Write for Booklet No. 107 B

Made in JERSEY CITY, N. J. by the JOSEPH DIXON CRUCIBLE CO.

Established 1827

BUFF

ENGINEERING INSTRUMENTS

are the strongest, most accurate and longest-lived instruments built. The close accuracy, high grade materials and superior workmanship have made the Buff the recognized standard. *Write for catalog No 4.*

BUFF & BUFF MFG. CO.

Jamaica Plains, BOSTON, MASS. 221 Lamartine Street
231 N. Wells Street, Chicago, Ill.

ODORLESS STAINLESS

DUSTOLINE FOR ROADS

TRACKLESS (TRADE MARK) TRANSPARENT

THE DUSTOLINE FOR ROADS CO., Summit, N. J., Phone 33
Has none of the objectionable features of the black asphaltic oils or tar preparations

"High Quality Materials for High Quality Work"
Bituminous Materials for every purpose

THE PIONEER ASPHALT CO.
LAWRENCEVILLE, ILL.

Did You Read Page 34?

You'll be missing something of value if you don't.
Turn to page 34 now.

DYNAMITE

Lowest Market Prices Upon Request

AETNA POWDER COMPANY

Ætna Dynamite is put up in Strong Paper Sheds or Cartridges which Previous to Filling, are Dipped in Melted Paraffin. The Smaller Sizes Having a Diameter of 1¼ inches and Under, are Packed in Pasteboard Boxes, containing 10 pounds each. Five of these Boxes are enclosed in a Strong Wood Case, which can be as conveniently Handled and Shipped as any other Merchandise. The Larger Sizes, 1½ inches and Over, are Packed Loose, same as Ætna Gelatin.

We can also furnish Ætna Dynamite in 25 Pound Cases, Two Paper Boxes in a Case containing 12½ Pounds each.

Nitro-Glycerine	Per Pound	Low Freezing Ammonia Extra	Per Pound	
✣ No. 4X —25%.....	....	✣ No. L4X —26%.....	.... $	For Clay, Shelly Rock, Frozen Earth and Light Work, and Quarries when Rock is to be Split but not Shattered
✣ No. 3X —30%.....	....	✣ No. L3X —30%.....	....	For Moderately Hard Rock, Copper, Lead and other Ores, Stumps and Ice.
✣ No. 2B —33⅓.....	....	✣ No. L2B —33⅓.....	....	
✣ No. 2 —40%.....	....	✣ No. L2 —40%.....	....	
✣ No. 2XX—50%.....	....	✣ No. L2XX—50%.....	....	For Hard Rock, Ores and Iron.
✣ No. 1 —60%.....	....	✣ No. L1 —60%.....	....	For Extremely Hard Rock, Ores, Breaking Iron and Steel, and Submarine Blasting.

AETNA CONTRACTORS POWDER

A Substitute for Common Blasting Powder

Ætna Contractors Powder is 50% Stronger than the Best Black Powder, and Safer to Use. It is Adapted for all Kinds of Blasting where Black Powder is Ineffective, but Dynamite is Dangerous. Used by Railroad Contractors and Others in Blasting Scaly Rock, Tough Clays, Hard and Limestone and Stumps. Always Explode this Powder with a Cartridge of Ætna Dynamite, and see that the Cartridge is well Charged in the Powder. Never Attempt to Fire it with Fuse Alone. Contractors Powder is Packed in Strong Paper Bags holding 12½ pounds each, Four Bags to a 50 pound Case.

	Per Pound
✣ Ætna Contractors Powder.....	$....

We Do Not Break Cases

We Positively Cannot Ship Dynamite with Hardware or other Goods

In all Cases where Dynamite is Entered on Order with Hardware, we will Ship it Direct from Nearest Magazine.

This Class of Goods can only be Shipped by Rail. We Cannot Accept any Order to be Forwarded by Passenger Steamer. Steamers having Magazines will accept Black Powder for Shipment, but it is Unlawful for them to carry High Explosives, such as Dynamite etc.

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

BLASTING MACHINES

UNITED STATES STANDARD

Used for Exploding Dynamite in Connection with Electrical Exploders.

A Magneto-electric Instrument, Constructed on the W[illegible]one and Siemen's Principle, Having a Magnet of [illegible] Character, Wound with Coils of Insulated Copper Wire.

Each

No. 8—Capacity 1 to 20 holes; Weight about 22 lbs. $50.00
One in a Box.

ELECTRICAL EXPLODERS

STANDARD
Best Quality

To be used for Exploding Dynamite with an Electric Battery.

Only the Best Material used in the Manufacture of these Exploders.

Double Wound Insulation; Quintuple Strength Caps; Cotton Covered Wires. Every Exploder Warranted Perfect.

	Per 100
4 Foot Wire—Weight per Box of 50 1¾ lbs.....	$10.80
6 Foot Wire—Weight per Box of 50 2 lbs.....	12.80
8 Foot Wire—Weight per Box of 50 3 lbs.....	14.40
12 Foot Wire—Weight per Box of 50 4½ lbs.....	18 00
20 Foot Wire—Weight per Box of 50 6⅝ lbs.....	25.20

50 in a box

Exploders Cannot be Shipped with Dynamite

SAFETY BLASTING FUSE

ANCHOR BRAND

Equal to the Well Known Double Tape in its Ability to Stand Hard Tamping and Exposure to Water, and which, Besides this, Should Be Better Able to Meet the Extreme Conditions of Climate, Weather and Temperature.

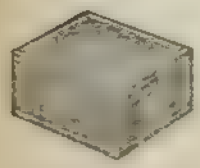
It Does not get Sticky, in Warm Weather or Moist Climate.
It Does not Crack in Cold Weather or Dry Climate.
It will Stand any Climate.
It is very Pliable, and Does not Crack or Break in Uncoiling.
It is Clean and Pleasant to Handle.

	Per 1000 Feet
Anchor Brand Fuse, Case Contains 6,000 feet and Weighs about 130 lbs	$15.30
Beaver Brand Fuse, Case Contains 6,000 feet and Weighs about 115 lbs.....	13.50
Clover Brand Fuse, Case Contains 6,000 feet Weighs about 120 lbs	14.50
Crescent Brand Fuse, Case Contains 6,000 feet and Weighs about 120 lbs	15.30

ENSIGN BICKFORD & CO.

	Per 1000 Feet
Cotton, Case Contains 6,000 feet and Weighs 125 lbs.....	$13.30
Single Tape, Case Contains 6,000 ft. and Weighs 125 lbs	13.70
Double Tape, Case Contains 6,000 ft. and Weighs 130 lbs.	15.50
Triple Tape, CaseContains 6,000 ft. and Weighs 138 lbs.	17.20

BLASTING CAPS



DUPONT

For Dynamite, Superior Quality
Blasting Caps Cannot be Shipped with Dynamite.

Per 1000

No. 6—Dupont, 1.00 Grammes Fulminate to the M..... $30.60
100 in a Metal Box, 5,000 in a Case; Weight per 1,000 3⅝ lbs.

CAP CRIMPERS AND FUSE CUTTERS

SAFETY

Stamped Steel; Nickel Plated Safety Cap Crimpers and Fuse Cutters Combined; Button Head Rivet; One side of Handle punched to make hole in charge to insert fuse.

Per Dozen

No. 1—Length 5½ inches; Weight per Dozen 2 lbs..... $7.50
Loose.

LEADING WIRE

DUPONT

Used in Connection with Blasting Machines and Electrical Exploders.

Per Pound

Leading Wire, In Coils of 500 feet.....**Market Price Only**
Average Weight per Coil 8¾ lbs.

CONNECTING WIRE

F. O. B. Distributing Points
DUPONT

A Pure Copper Insulated Wire, Used for Connecting the Exploders where Several Charges are to be Fired Simultaneously.

Per Pound

Connecting Wire, 2 lbs. on a Spool Containing about 500 feet ..... **Market Price Only**

BLASTING PAPER

We do not Print Blasting Paper

"KEYSTONE" IN ROLL

Extra Quality Waterproof Drab Fiber; Basis 100 pounds to a Ream of 24x36 inches.

REGULAR ROLLS

Nos.	R9	R12
Width, inches	9	12
Weight per Roll, lbs.	5	5
Per Pound	$0.18	.18

MINERS SQUIBS

For Firing Blasts in Coal Mining

DADDOW & BEADLE

Per 1000

No. 1D—(Yellow Label) **Daddow & Beadle,** Burns With a Flame for general use..... $3 00

No. 3D—(Red Label) **Daddow & Beadle,** Burns With a Spark, for use in Mines Containing Gas or Fire Damp; also Suitable for general use..... 2.20
100 in a Pasteboard Box, 10,000 in a Case; Weight per Case 31 lbs.

POWELL

Per 1000

No. 1P—(Yellow Label) **Powell Rocket,** Burns with a Flame, for general use $3.50

No. 2P—(Red Label) **Powell Gas,** Burns with a Spark, for use in Mines Containing Gas or Fire Damp.. ..... 3 70

100 in a Pasteboard Box; 10,000 in a Case; Weight per Case 27 lbs.

Wrenches

Alligator "V Jaw" Wrenches

For Pipe, Nuts, Etc.

Fig. 669

Fig. 669

Fig. 670

These wrenches are an exact duplicate of the well known Alligator Wrenches. They are forged from carbon steel and carefully tempered.

Price List

No. 0,	4 inches long	per dozen	$ 4.00
No. 1,	5¾ inches long	per dozen	4.00
No. 1½,	5¾ inches long	per dozen	4.50
No. 2,	9 inches long	per dozen	12.00
No. 2½,	12½ inches long	per dozen	18.00
Twin	10 inches long	per dozen	18.00
No. 3	16 inches long	per dozen	24.00
No. 4	22 inches long	per dozen	36.00
No. 4½	24 inches long	per dozen	50.00
No. 5,	27 inches long	per dozen	60.00

Wrenches

Vulcan Bijaw Wrenches

Fig. 671

Vulcan Bijaw Wrench, with Flat Chain.

No	Length Inches	Weight Pounds	Takes Pipe Inches	Flat Chain Each	Cable Chain Each	Extra Flat Link Chain Each	Extra Cable Chain Each	Extra Jaws Per Pair
30	14	1¾	⅛ to ¾	$2 50	$2 50	$0 75	$0 75	$1 00
31	20	5¾	⅛ to 1½	3 50	3 50	1 00	1 00	1 75
32	27	10	¼ to 2½	5 00	5 00	1 50	1 50	2 75
33	37	16	¾ to 4	7 00	7 00	2 50	2 50	4 00
33½	45	24	1 to 6	9 00	9 00	3 50	3 50	4 75
34	50	31	1½ to 8	11 00	11 00	4 50	4 50	5 50
35	64	50	2 to 12	18 00	18 00	7 50	7 50	7 50
*16	87	137	4 to 18	40 00	40 00	20 00	20 00	16 00

*Furnished only in old-style "Vulcan."

Agrippa Chain Wrenches

Fig. 672

Agrippa Chain Wrench

No	Length Inches	Weight Pounds	Takes Fittings Inches	Each	Extra Chains Each	Extra Jaws Each
20	14	2½	⅛ to ¾	$2 50	$1 00	$1 00
21	20	5¾	⅛ to 1½	3 50	1 25	1 75
22	27	9¾	¼ to 2½	5 00	1 75	2 75
23	37	17	¾ to 4	7 00	2 75	4 00
23½	45	24	1 to 6	9 00	4 00	4 75
24	50	32	1½ to 8	11 00	5 00	5 50
25	64	56	2 to 12	18 00	8 00	7 50

All-Steel Electric Arc Locomotive Headlights

No. 1419A. 18-inch

Price does not include lamp mechanism.

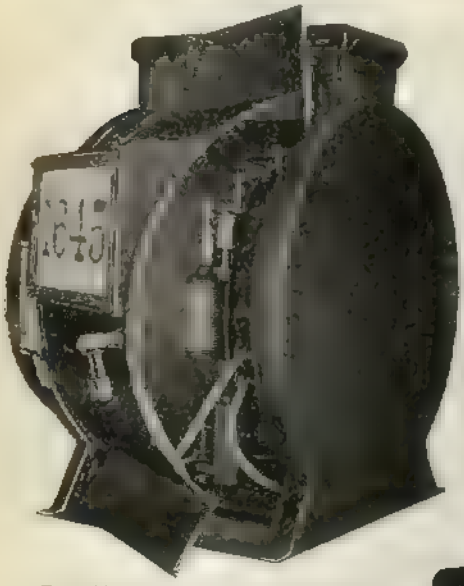
Each $70 00

No. 1614. 18-Inch

Price does not include lamp mechansim

Each $74 00

All-Steel Electric Arc Locomotive Headlights



View Showing Side Door Arrangement

No. 1645. 18-inch

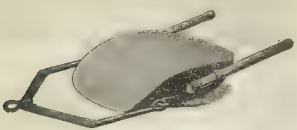
Automatic contacts—Eliminate necessity of disconnecting wires when withdrawing the lamp mechanism or interior—also prevents possibility of lead wires being reversed after they have once been properly connected.

Front Perspective

Price does not include lamp mechanism
Each..... $68 00

Lamp mechanism
Each..... $42 00

AMERICAN, SIDE HANDLE.



WITHOUT RUNNERS.

COLUMBIA, TOP HANDLE.

WITHOUT RUNNERS.

Bowl, without seam or lip.

Each

No. A1—Carries 7 cubic feet of earth. Used for long haul or down grade. Size of bowl, top of back to cutting edge 33½ inches, width, 32 inches, depth 11½ inches; weight, 80 pounds.....$17.30

No. A2—Carries 5 cubic feet of earth. For all ordinary grading, farm, road or township work. Size of bowl; top of back to cutting edge 31½ inches, width 29 inches, depth 11½ inches; weight, 75 pounds.....16.80

WITH RUNNERS.

Each

No. A1R—Carries 7 cubic feet of earth. Used for long haul or down grade. Size of bowl, top of back to cutting edge 33½ inches, width 32 inches, depth 11½ inches; weight 93 pounds.....$18.00

No. A2R—Carries 5 cubic feet of earth. For all ordinary grading, farm, road or township work. Size of bowl, top of back to cutting edge 31½ inches, width 29 inches; depth 11½ inches; weight, 82 lbs.....17.50

Each

No C1—Carries 7 cubic feet of earth. Extra quality steel; full size bowl; perfect cutting edge; steel hooks, bail and swivel; weight 90 pounds.....$17.60

No. C2—Carries 5 cubic feet of earth. Extra quality steel; regulation size bowl; perfect cutting edge; steel hooks, bail and swivel; weight 75 pounds.....17.10

WITH RUNNERS.

Each

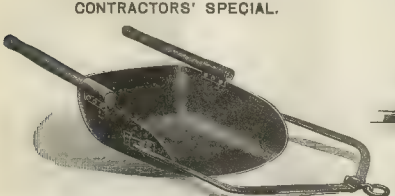
No. C1R—Carries 7 cubic feet of earth. Extra quality steel; full size bowl; perfect cutting edge; steel hooks, bail and swivel; weight 98 pounds.....$19.30

No. C2R—Carries 5 cubic feet of earth. Extra quality steel; regulation size bowl; perfect cutting edge; steel hooks, bail and swivel; weight 85 pounds.....17.80

Per Single Dozen

Extra Handles—For road scrapers.....$2.20

CONTRACTORS' SPECIAL.



Solid High-carbon Steel Drag Scraper, extra heavy, with wood handles; bowl is full size and weight, with no slit at the side and no lap at the corners. Especially adapted for heavy, continuous work and the most durable scraper on the market.

Each

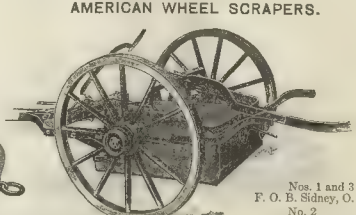
No. CS1R With runners. Capacity, 7 cubic feet; weight, 111 lbs.....$20.90

No. CS2R—With runners. Capacity, 5 cubic feet; weight, 103 lbs.....20.10

No. CS1—Without runners. Capacity, 7 cubic feet; weight, 104 lbs.....20.00

No. CS2—Without runners. Capacity, 5 cubic feet, weight, 91 lbs.....19.50

AMERICAN WHEEL SCRAPERS.



Nos. 1 and 3 F. O. B. Sidney, O.
No. 2 F. O. B. St. Paul.

Arched axle of hammered steel, with sand excluders. Steel draft bars, bowl and ball.

Extra heavy tires. Wheels of best seasoned stock. Heavily ironed oak tongue and Johnson's bar.

Nos.	*1	2	*3
Axles, inches	1⅝	1¾	1¾
Wheels, height, inches	36	42	46
Bowl, size, inches	35x34½x11½	37x38x13½	41x44x16
Tires, inches	2¾x¼	3x⅜	3x⅜
Capacity, cubic feet	9	13	16
Weight, pounds	400	545	700
Each	$51.50	64.00	77.00

*From factory

LITEHAUL.

Strong, light and easily propelled; for delivery of light and medium loads. Attaches to any auto; has buffer spring hitch which takes away the jerks, jar, etc.

Front end lets down. Adjustable rear end. Steel or solid rubber tires; auto pattern springs. Thoroughly painted and finished, wheels yellow, box brewster green, all striped and varnished.

Body—The wooden box or body is three ft. 9 in. wide, 6 ft. long, 9½ in. deep and has 6 in. flare boards. Made from best grade of clear lumber. Bottom securely fastened to floor sills. Sides secured to frame with knee braces and box board bolts. Flare boards attached to sides with special knee braces. Front end gate lets down into frame. Rear end gate is adjustable.

F. O. B. local warehouse

	Each
No. 1 Trailer—Wheels, 34 inches, Sarven pattern, 1¼x⅞-inch steel tires; 1¼-inch 1000 mile axle; springs, automobile half elliptic; frame of steel angles; capacity, 1200 lbs.; weight, 375 lbs.	**$60.00**
No. 2 Trailer—Wheels, 34 inches diameter, Sarven pattern, 1¼-inch solid rubber tires; 1¼-inch 1000 mile axle, springs automobile half elliptic; frame of steel angles; capacity, 1200 lbs.; weight, 375 lbs.	**75.00**
No. 3 Trailer—Wheels, 34 inches diameter; 1¼-inch solid rubber tires; axle 1¼ inch Sheldon ball-bearing; springs, automobile half elliptic; frame of steel angles; capacity, 1200 lbs.; weight, 375 lbs.	**90.00**

AUTO TRAILER CONNECTIONS.

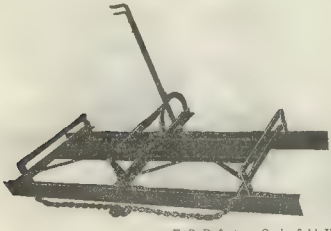
FOR LITEHAUL TRAILER.

	Each
No. C. B. C.—Auto Trailer Connection fitted with universal joint. For connecting Auto Trailers to cars with side springs, weight each 9 lbs.	**$3.50**

STEEL ROAD DRAGS.

A necessary tool for the maintenance of good earth and gravel roads. To keep a road in first-class condition, it should be gone over once or twice a year with a light grader and frequently with a drag, preferably after each rain. With the lever drag, roads can be successfully dragged when quite dry by pulling lever back and so inclining blades that they will cut in the earth much better than when perpendicular.

ILLINOIS.



F. O. B. factory, Springfield, Ill.

Each

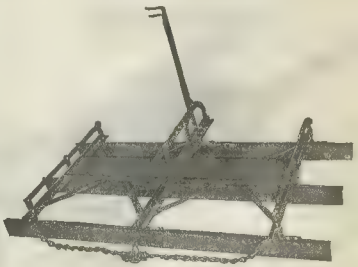
***Illinois—2-blade, adjustable steel drag;** all steel except the platform; blades, 8 feet long, 6 inches high; made of open hearth steel, reinforced entire length by stiff, high carbon, steel angles; width of drag, 36 inches; weight, including chain, 320 lbs. **$28.00**

PRAIRIE.

Each

***Prairie—2-blade, adjustable steel drag;** all steel except platform; blades, 7 feet long, 6 inches high; made of open hearth steel, reinforced entire length by stiff, high carbon, steel angles; width of drag, 36 inches; weight, including chain, 275 lbs. **$27.00**

TWENTIETH CENTURY.



F. O. B. factory, Springfield, Ill.

Each

***20th Century—3-blade, adjustable drag;** has 50% more efficiency than two-blade drag; the three blades hold drag always on same plane and prevent dipping into depressions; blades are easily adjusted by long lever; by shifting the grab link, draft may be adjustable to any angle; blades, 8 feet long, 6 inches high; made of open hearth steel, reinforced entire length by stiff, high carbon, steel angles; width of drag, 45 inches, weight, including chain, 380 lbs. **$36.00**

***For factory shipment only. F. O. B. Springfield, Ill.**

B♭ CORNETS—MADE IN AMERICA

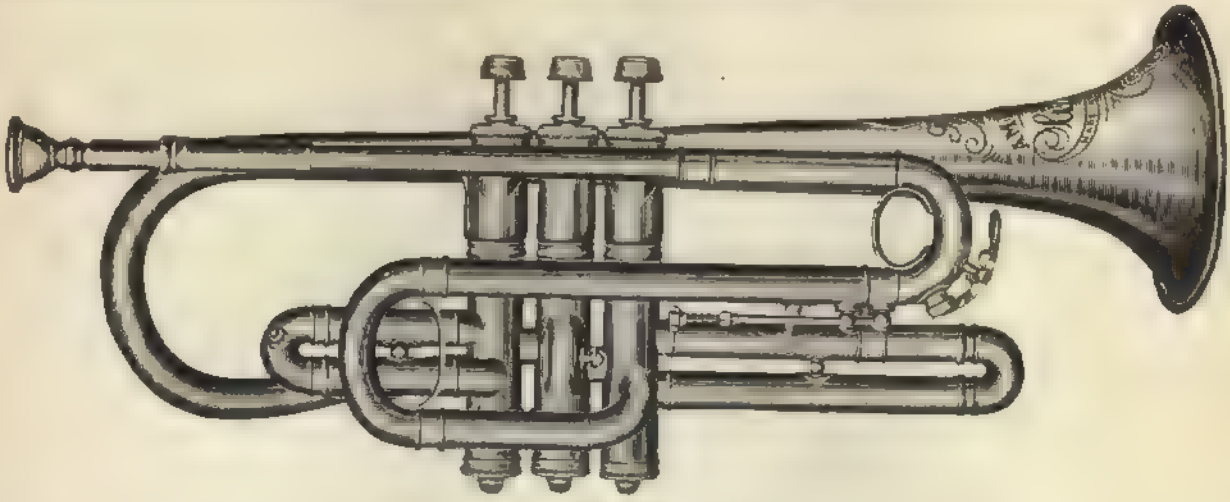
SPECIAL ANNOUNCEMENT

Owing to the difficulty in procuring Imported Band Instruments due to the War, and the fact that the stock in this country is sold out, we are illustrating and quoting only what we are positive in furnishing our customers. However, superiors feel conditions may improve and in this connection, we would suggest writing us for prices and descriptive matter on any Band Instrument you may be interested in. We assure you that your inquiries will have our thorough and most courteous prompt attention.

LONG MODEL AMERICAN CORNET

Quick change to A, High and Low Pitch.

Dainty late model faultless intonation, perfect ease of blowing, splendid ornamentation, brilliant, voice-like tone and lightning-like valve action characterize the instrument illustrated on this page.



No. 90961

Length, mouthpiece to bell, 16⅜ ins.; diameter of bell, 4½ ins.; weight, about 2¼ lbs.

No. 90903	Brass, highly polished, bell artistically engraved	Each	$56.00
No. 92903	Triple silver plated, elegant sand blast satin finish, points and inside of bell hand burnished	Each	79.00
No. 93903	Triple silver plated, elegant sand blast satin finish, points burnished, inside of bell gold plated and beautifully hand burnished	Each	87.00
No. 94903	Triple silver plated, elegant sand blast satin finish, points and inside of bell gold plated and beautifully hand burnished	Each	91.20

SUPERIOR QUALITY CORNETS

Guaranteed to represent the Highest Degree of American Expert Workmanship and Finish. The Acme of Perfection.

Length, mouthpiece to bell, 16⅜ ins.; diameter of bell, 4½ ins.; weight about 2¼ lbs.

Equipment—Low pitch slide extra 1st and 3d valve slides for use in low pitch, music rack and silver plated mouthpiece.

DESCRIPTION OF FINISHES

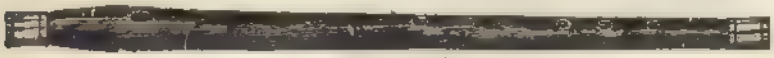
No. 90961	Brass, highly polished, bell artistically engraved	Each	$ 80.00
No. 92961	Triple silver plated, elegant sand blast satin finish, points and inside of bell burnished	Each	100.80
No. 93961	Triple silver plated, elegant sand blast satin finish, points burnished, inside of bell gold plated and beautifully hand burnished	Each	108.80
No. 94961	Triple silver plated, elegant sand blast satin finish, points and inside of bell gold plated and beautifully hand burnished	Each	117.00

Cornet attachment extra: Brass $20.00 list, silver plated, $30.00 list.

CORNET CASES

No. 90	Canvas, fleece lined, leather bound edges, metal clasps, leather handle with shoulder strap	Each	$ 3.00
No. 911	Seal Grain Leather, black, satchel form, flannel lined, leather handle, nickel plated trimmings, with shoulder strap	Each	6.80
No. 920	Keratol Covered, velvet lined, nickel plated trimmings	Each	11.60
No. 925	Genuine Cowhide Leather, finely finished, plush lined, nickel plated trimmings, a very handsome case	Each	13.60

FIFES



Nos. 911-912

Nos. 921-922

Nos. 923-924

No. 91	B♭, imitation ebony	Each	$0.50
No. 92	C, imitation ebony	Each	.50
No. 97	B♭, rosewood, brass ferrules	Each	1.00
No. 98	C, rosewood, brass ferrules	Each	1.00
No. 911	B♭, ebony, nickel-plated ferrules	Each	1.70
No. 912	C, ebony, nickel-plated ferrules	Each	1.70
No. 913	B♭, nickel-plated, raised finger-holes	Each	3.00
No. 914	C, nickel-plated, raised finger-holes	Each	3.00
No. 921	B♭, nickel-plated, raised finger-holes, gutta percha embouchure	Each	3.00
No. 922	C, nickel-plated, raised finger-holes, gutta percha embouchure	Each	3.00
No. 923	B♭, nickel-plated embouchure plate	Each	3.00
No. 924	C, nickel-plated embouchure plate	Each	3.00

AMERICAN MAKE BUGLES

U. S. REGULATION TRUMPETS

No. 970	Brass, key of G, with F tuning slide	Each	$16.80
No. 971	Brass, nickel-plated keys, G with F slide	Each	18.00
No. 972	Brass, silver-plated, burnished, key of G, with F tuning slide	Each	24.60

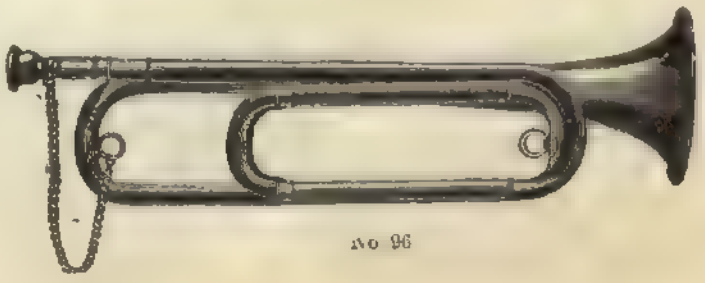
REGULATION B♭ ARTILLERY BUGLE

High Grade, Easy Blowing, Perfect Tuning.

No. 990	Key B♭, regulation artillery, heavy polished brass, with extra heavy turned edge on bell, fitted with mouthpiece on chain	Each	$17.00
No. 992	Same as No. 990, nickel-plated	Each	19.00
No. 994	Same as No. 990, triple silver-plated, burnished	Each	25.00

REGULATION BUGLE CORDS

No. 91	First quality double worsted, with tassels, in red, yellow, blue or white colors	Each	$ 3.30



No. 96

THE ARION AUTOMATIC SELF-PLAYING CONCERTINA

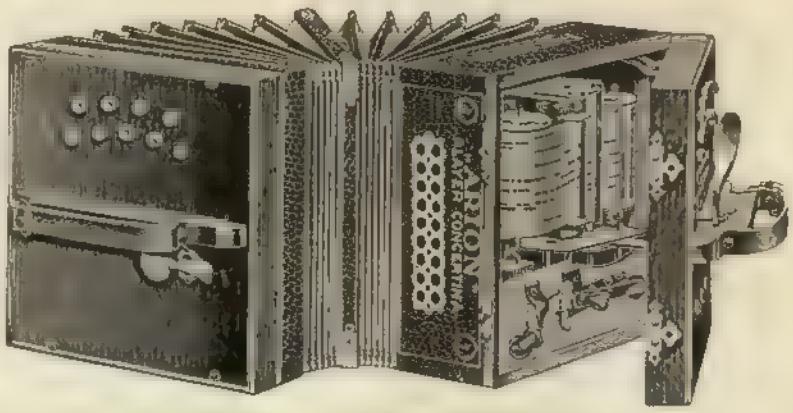
Greatest Musical Invention of the Age

OPERATION SIMPLE! MERELY EXPAND AND CONTRACT BELLOWS, USING LEVER

Any One, Old or Young, Can Operate It—Music Superb

Made in 3 Sizes

No. 1	7¾ inches square has 32 brass reeds including 3 rolls, price	$55 00
	Extra rolls, each	1 55
No. 2	9¼ inches square has 80 brass reeds including 3 rolls, price	$77 00
	Extra rolls, each	1.70
No. 5	9¼ inches square has 112 steel reeds including 3 rolls, price	$101.00
	Extra rolls, each	2.20



These Instruments are Beautifully Made and highly finished in imitation Rosewood. Large rich tone, extra strong bellows and a well made motor. Three rolls of music with each instrument gratis. Below we give the partial list of music rolls for these Concertinas.

No.	Title and Composer.
1001	King Charles-March—Unrath
1002	March of volunteers—Sousa.
1003	Waltz from the operette: "The waltz dream"—Lehar.
1004	Waltz from the operette: "The Earl of Luxemburg"—Lehar.
1005	The little Tonkin girl—Scotto u. Christine.
1006	Rhenish dance from the operette: "The dollar princess"—Fall.
1007	Cavalleria Rusticana, Intermezzo—Mascagni.
1008	Air from the opera: "Rigoletto"—Verdi.
1009	March of the regiment No. 107—Hauschild.
1010	March of the regiment No. 108.
1011	Waltz from the operette: "The divorced wife"—Fall.
1012	Roses from the South, waltz—Strauss
1013	Our Colors, March—Forster
1014	Tyrolienne march—I. F. Wagner.
1015	Tannhäuser march—Kretschmar.
1016	March from the opera "Carmen"—Bizet.
1017	Rhenish dance from the operette: "The merry countryman"—Fall.
1018	"Do you know the land" air from the opera "Mignon"—Thomas
1019	Waves of the Danube, waltz—Ivanovici.
1020	Choral Song
1021	"Bride Chorus" from the opera "Lohengrin"—Rich Wagner
1022	Miserere from Troubadour—Verdi
1023	The Skaters, waltz—Waldteufel
1024	Barcarole from Hoffman's tales—Offenbach
1025	Morning papers, waltz—Strauss.
1026	Vienna blood, waltz—Strauss
1027	Under the banner of victory, march—V Blon
1028	Over the waves, waltz—Rosas
1029	Polka from the operette: "The Earl of Luxemburg"—Lehar
1030	Tales from the Vienna Wood, waltz—Strauss
1031	Wine waltz—S Gross
1032	March from the opera: "Tannhauser"—Rich Wagner
1033	Love me and the world is mine—Ernst R Ball
1034	Coronation march from the opera: "The prophet"—Meyerbeer
1035	Air from the opera: "The Master singers"—Rich. Wagner
1036	Soldiers' Chorus from "Faust"—Gounod
1037	Kiss Rensh dance from the operette: "The Autumn manuever"—E Kalman
1038	Waltz from the operette: "The merry widow"—Lehar
1039	The cherries in the neighbour s garden—Hollander.
1040	Waltz from the operette: "The flitter-mouse"—Strauss.
1041	Comedy overture—Keler Bela
1042	Let us enjoy the life, march—M Simon
1043	The Honeymoon, march—G. Rosey
1044	The American Patrol, march—A. S Kreymborg
1045	Wine, Woman and Song, waltz—Straub
1046	"To our home" Air from Troubadour—Verdi.
1047	Air from "Martha"—Flotow.
1048	La Gran Via, Spanish waltz—Chuesa y Valverde.
1049	Bavarian dance
1050	Hungarish Czardas
1051	Christmas Songs
1052	Prayer from "Tell"—Rossini
1053	Tyrolienne from "Tell"—Rossini
1054	Spring my girl—John Flinn.
1055	Song from the operette: "The Gipsy baron"—Strauss.
1056	"German flag" song—Rich Thiele
1057	Hymno Do Minho—Maria da Fonte
1058	A Portuguesa—A. Keil.
1059	Parade of the tin-soldiers—Leon Jessel
1060	In the stork-nest, waltz—A. Behling.
1061	At the Borporus—Paul Lincke
1062	German song
1063	"Who is responsible," waltz of Polish house keeping—Jan Gilbert.
1064	Country-music, waltz of Polish house keeping—Jan Gilbert.
1065	El Torero—Lopez
1066	When the father with his son, march from "The virtuous Susanna"—Oscar Fetras.
1067	Bavarian dance
1068	When they [illegible] the small feets, waltz from "The virtuous Susanna"—Oscar Fetras.
1069	Troika, Russian waltz
1070	Love dance from "Madame Sherry"—Intermezzo—Karl Hoschna.
1071	Bohemian dance—Jan Schuster.
1072	Bohemian dance—Jan Schuster.
1073	Jota La Manchegutta.
1074	Bohemian national hymn.
1075	Iota Aragonesa—Arista
1076	La alegria del batallon Americana Al mismito Rey del Moro—Lorenzo Ruiz
1077	Robert the Devil, Cavatine—G. Meyerbeer.
1078	Norma, "Sec o Norma"—G Meyerbeer
1079	La Traviata, drink air—G Verdi
1080	La Traviata, waltz—G. Verdi
1081	Aida, triumph march—G. Verdi
1082	Norma, chorus—G. Meyerbeer
1083	Waltz from the beloved Auguetin—Leo Fall.
1084	Girls like that so much, from "auto love"—Gilbert
1085	Troubadour, air—G. Verdi
1086	Troubadour Cavatine—G Verdi
1087	Rastelbinder, waltz—Lehar.
1088	Robert the Devil, Sicilienne—G. Meyerbeer
1089	Molinos de Viento, Schotis de los Zuecos—Mtre. Luna
1090	El Principe Casto, Schotis de los Perfumadores—Matre Valverde.
1091	El Vito, Pasodoble Torero—Mtre. S. Lope.
1092	Ven y Ven y Ven, Habanera Mexicana-Espanola—Meller y Paquita.
1093	The Belle of the Barber's Hall—Geo. M. Cohan.
1094	My lady can you dance round to the left, from "auto love"—Gilbert
1095	Child, I am sleeping so badly, waltz from "Flimmagie"—W. Kollo
1096	Pauline is going to dance, waltz from "High rosins"—W. Kollo
1097	Little dear, you are my pupil, from "Little dear"—Gilbert
1098	Let us go to Hagenbeck, from "Little dear"—Gilbert.
1099	Aisha, two step—John Lindsay.
1100	If love is dying—Octave Cremieux.

New Music Issued from Time to Time

American Dead Weight Gauge Tester

Standard Type

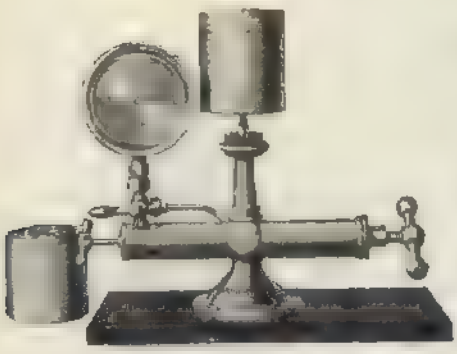


Fig 944

To a person accustomed to testing steam gauges with the apparatus generally used for that purpose, the great advantages of the American Dead Weight Gauge Tester are readily apparent

Weights are used in various units from 5 to 20 pounds, and it is a simple matter to accurately compare the reading of the gauge at all points on the dial without the trouble usually experienced with the old-fashioned testing apparatus, where in a great many cases it is impossible to hold the pressure on the gauges long enough to compare them

The American Dead Weight Tester is as accurate as a mercury column, occupies a great deal less space, and the cost is but slight when compared to that of the mercury column

It is the one and only instrument by which gauges can be tested accurately without the use of the mercury column

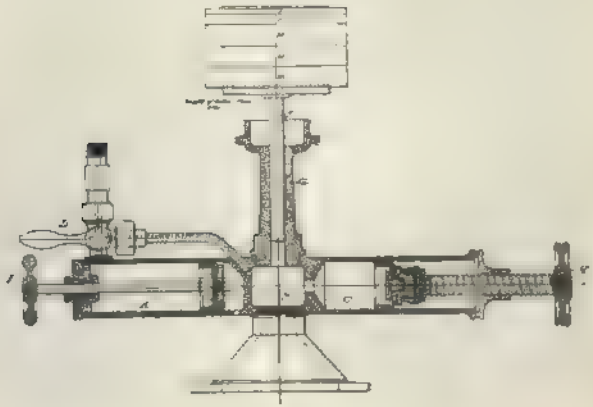


Fig 945

Mechanical Description

This pump consists [illegible] Cylinder G and Piston I of a known area operated by weights and multiplying [illegible] the area of the piston

Cylinder G has a screw plunger for [illegible] the [illegible] gauge and pump cylinder through three way cock H. The object [illegible] that the pump may be used for testing the accuracy of gauges without removing them after testing

The improved design of this tester especially adapts it for testing all types of pressure gauges [illegible] railroad shops [illegible] and [illegible] or may be set up anywhere as [illegible] of gauges are [illegible]

The auxiliary chamber is operated by a plunger which is independent of the main pump cylinder and is so connected [illegible] three way cock. By operating this plunger the gauge spring and connection to gauge may be filled before connecting the gauge and may be drained after the test is completed, in this manner preventing any spilling of oil

American Trainagraph

Patented

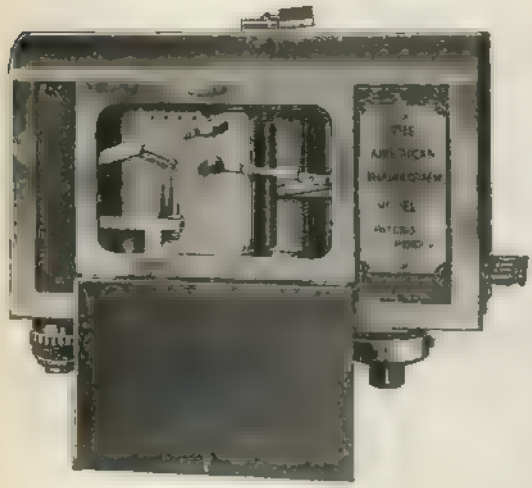


Fig 946

The American Trainagraph is a graphic recording instrument showing accurately and in detail every application of air brakes, both service and emergency, train line pressure, brake cylinder pressure mileage, time and speed at all times

The Trainagraph is made in three types: A—Showing train line pressure; B—showing train line pressure, mileage, time and speed C—showing train line pressure, mileage, speed and car brake cylinder pressure

It shows the exact reduction made with each movement of the operator's hand; it is a complete story of what the operator did and its exact effect on the entire train line showing as follows

It shows. Train line pressure always; the reduction in pressure on each application, how much time is required to recharge the train line whether there is leakage in train line or brake cylinder whether pump governor is properly adjusted or not

We will confine our description to the following facsimile of a section of a diagram taken by a Model C, as this contains all the records made by the various types

The instrument is operated and controlled by a powerful seven-day clock movement of the best-known make

The record chart is divided vertically into minutes and hours, and horizontally into ten-pound units or brake cylinder pressure and five pound units for train line pressure

The mileage record is made in tenths and is recorded by opposite indentations at each mile. These records are made in relation to the time line shown, hence the speed is instantly evident at any point on the record

Records begin when train starts and continue until it has reached its destination, whether that be at a head station or at the end of a day's run, it being necessary to rewind every twenty four hours. When the train has reached its destination and stopped the chart is renewed and the instrument is again ready for instant service

The Trainagraph may be applied to any car in a train or to the locomotive itself if so desired its application is very simple and quickly accomplished and its operation is not only automatic but beyond the power of human hand to change or tamper with

The train line and brake cylinder pressures are operated by direct air pressure and the speed indicator by electrical power. Records are not affected by variations and are absolutely steady, excepting under conditions as changed by the slightest amount of condensation in the brakes

The mileage record shows the retarding effect of every brake application

The brake cylinder record shows the exact results and value of every reduction in pressure on train line

The train line record shows every application made by the engineer, whether in test service or emergency

The American Trainagraph is guaranteed to accurately perform the services hereinbefore mentioned and is sold upon the understanding that it may be returned for refund, if, after being properly installed, it fails to perform as specified

Complete descriptive circular will be mailed on request

All records show time in minutes and hours

We will confine our description to the following facsimile of a section of a diagram taken by a Model C as this contains all the records made by the various types

The instrument is operated and controlled by a powerful seven day clock movement of the best known make

The record chart is divided vertically into minutes and hours, and horizontally into ten-pound units for brake cylinder pressure and five pound units for train line pressure

American LaFrance Motor Fire Apparatus at Camp Dix Wrightstown N J

THE NATION'S EFFICIENCY IN THE PRESENT CRISIS

The nation's efficiency in the present crisis depends upon the ability of its industries to produce war materials and supplies, and to continue to do so without interruption.

The burden of protecting the industries of the country against delays and stoppage of production by fires rests upon the Fire Departments. Fire Departments efficiency depends largely upon the reliability and quality of its Fire Fighting Apparatus. *The Best is None too Good.*

Up to this date this company has furnished the United States Government with the following motor fire apparatus:

18 Pumping Cars
38 Chemical Engines
6 Combination Cars
1 Service Truck

—as well as some 200 hand-drawn chemical engines and several thousand hand extinguishers.

AMERICAN-LAFRANCE FIRE ENGINE COMPANY, INC.

Members of the National Automobile Chamber of Commerce. Licensed under the Dyer Patents

Elmira, New York, U. S. A.

Branch Sales Offices and Service Stations

New York, Boston, Chicago, San Francisco, Portland, Ore., Dallas, Los Angeles, Atlanta, Denver, Pittsburgh, Baltimore, Minneapolis

CANADIAN FACTORY, TORONTO, ONT.

The American Trackbarrow

Fig. 251

There is no surer, easier, less expensive way to accomplish results than by the use of the

American Trackbarrow

If you chose to use this simple little trackbarrow you will be pleased with its magic results in economy, speeding work and safety.

Its great merit is that the man who runs it can walk beside the rail as the wheel is set at that angle. The wheel is of rolled steel, flanges fit any rail. Its frame is of hardwood, steel braced throughout. Gauge of tray, No. 10, top 28 inches long, 31 inches wide.

The Carbarrow

All steel; weight, 100 pounds; tray, 30 inches long, 28 inches deep, 9-inch bottom, 15 inches square, [illegible] steels.

Man walks best between rails.
Inside or outside of the rail.
Dumps load inside or outside rail.
The rail carries all the load.

Fig. 252

For greater efficiency and your personal work by using the carbarrow. It eliminates waste of valuable energy and carries your freight to and fro. Always ready.

The carbarrow is extra strong. The tray is solid No. 14 steel welded seams, water tight; sets near rail, making center of gravity low. The wheel is set in, keeping the car in track, have pressed steel tires 11 inches in diameter and have [illegible] inches face. The [illegible] bars run under the whole bottom. The handles are right at a slight angle.

Wheelbarrows

Patented Coal Barrows

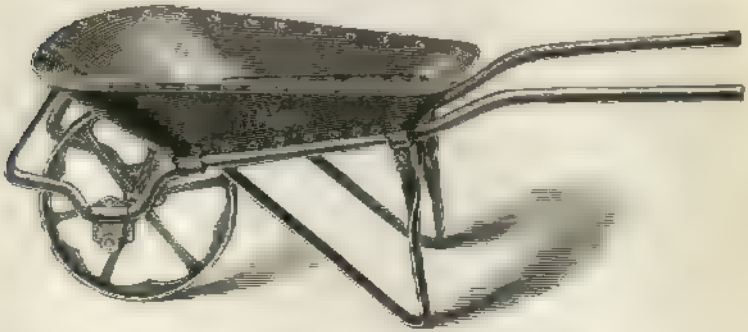


Fig. 249

No. 4. Greatest width of tray, 28 inches, greatest length of tray, 32 inches, capacity, 150 pounds of coal, 16-inch wheel, tray of Nos. 16 and 12 steel, each $12 25

No. 5. Greatest width of tray, 34½ inches, greatest length of tray, 36 inches, capacity, 200 pounds of coal, 16-inch wheel, tray of Nos. 16 and 12 steel, each $14 25

No. 6. Greatest width of tray, 32 inches, greatest length of tray, 38 inches; capacity, 225 pounds of coal, 16-inch wheel, tray of Nos. 14 and 12 steel, each $15 00

No. 7. Greatest width of tray, 36 inches; greatest length of tray, 39 inches; capacity, 300 pounds of coal, 16-inch wheel, tray of Nos. 16 and 12 steel, each $18 00

No. 8. Greatest width of tray, 40 inches, greatest length of tray, 45 inches; capacity, 450 pounds of coal, 16-inch wheel, tray of Nos. 16 and 12 steel, each $20 00

With Two Wheels

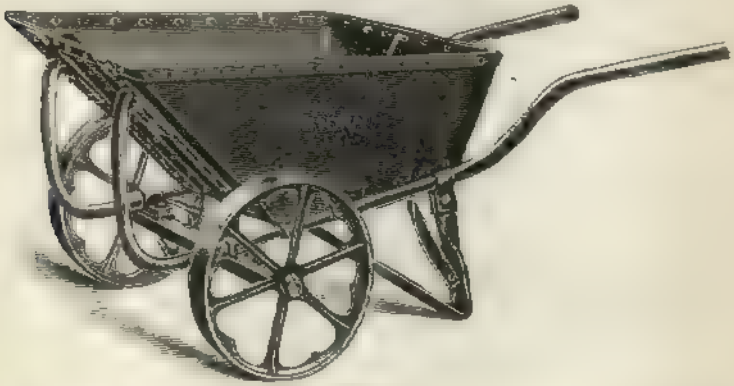


Fig. 250

No. 10½. Capacity, 360 pounds, each $28 00
No. 11½. Capacity, 340 pounds, each 30 00
No. 12½. Capacity, 400 pounds, each 32 00
No. 13½. Capacity, 480 pounds, each 34 00
No. 15½. Capacity, 800 pounds, each 36 00

Angle Bending Tool

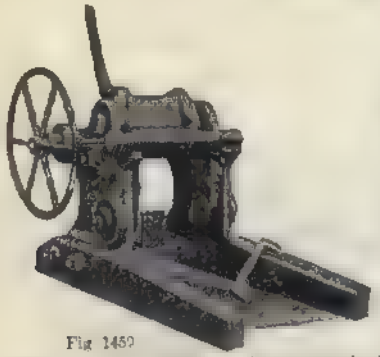


Fig 1459

Size No. 3 (For Railroad Shops, Etc.)

This machine will bend iron of any thickness up to 1½ inch, and of any width up to 12 inches. Light iron is worked cold, while heavy iron must be heated. By means of a die (one of which is supplied with each machine) for making the proper angle, a variety of shapes and forms can be produced.

The iron is put into the machine and clamped fast by operating a hand-wheel which is on the side of the machine and then by pulling down the lever the piece is bent to the shape required. This machine is regularly fitted with a die for bending up to a right angle, but will be supplied with the machine, without extra cost, a die that will bend to an angle of 45 degrees, and this covers a wide range of work.

The machine is operated by hand and one man operates it, except in the case of very heavy work, when two men are required. It is so simple that any man can readily learn to operate it to advantage.

Dimensions, etc. The machine is compactly constructed and requires very little floor space. Width over all 25 inches, weight, 23 pounds, length (not including hand-wheel, 21 inches. Length of table to which machine is attached, 4 feet 3 inches.

Gross weight, 950 pounds net weight, 800 pounds

Price, including one style of forming die ..... each $150 00

Separate dies for forming special shapes furnished at an extra price.
Discount upon application

Pipe Bending Machine

It will bend an infinite variety of shapes without leaving any mark or disfigurement on the work.

The quadrants furnished with the machine are for 1-inch pipe, with a radius of 6 inches; 1½-inch pipe, with a radius of 9 inches; 1½-inch pipe, with a radius of 12 inches, and 2-inch pipe, with a radius of 14 inches. While these four sizes are furnished with the machine, the fact that the smaller sizes of pipe can be bent in the larger quadrants makes changing the quadrants unnecessary, unless a shorter radius than the larger quadrant will give is desired.

Fig 1460

Portable Hydraulic Press No. 3

Showing Pump

For pressing on or off cranks, crank pins, tires, wheels, couplings, etc.

The cylinder is made of cast steel, with a cast iron ram, oil or water tank, bronze pump with hydraulic gauge and hand lever, and a rack and pinion with lever for drawing back the ram, all self-contained and ready for use without making any pipe connections. It is built in a very strong and durable manner, with good factor of safety.

It is designed to be lifted and carried about the shop by means of a crane.

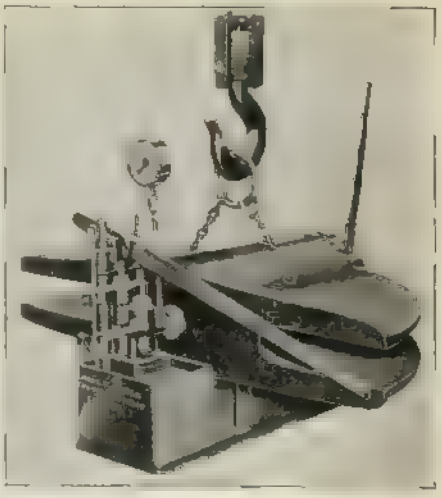


Fig. 1461

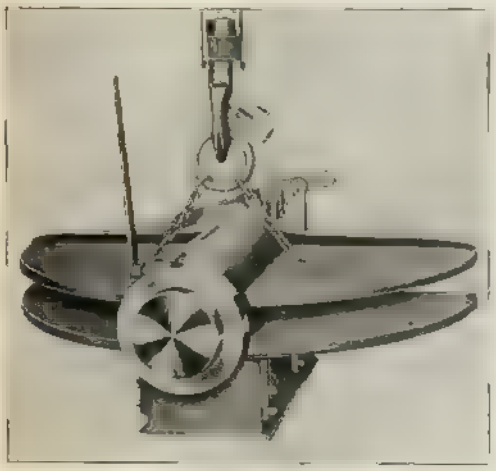


Fig. 1462

Portable Hydraulic Press No. 3

Showing Ram

We will furnish a print showing beams and side bars, if you wish to make them.

We can build any size and pressure to design desired. One of 250 tons capacity is the most commonly used.

Capacity Tons	Ram		Opening Between Bars		Height from Center of Ram to Floor Inches	Approx. Weight Without Beams and Rods Pounds	Price Without Beams and Rods	Price With Beams and Rods
	Diameter Inches	Stroke Inches	Minimum Inches	Maximum Inches				
250	10	18	2"	62	15	3500		
250	10	18	2"	90	15	4300		

MANTEL CLOCKS

ENAMELED IRON

ORMONDE

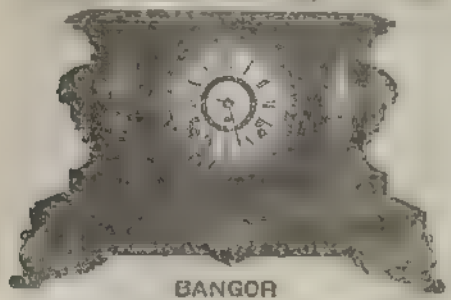
(Made by [illegible] Clock Co.

[illegible] Enameled Iron Case [illegible] with 8 Day [illegible]

Each

Ormonde—Height 11¼ inches; Length [illegible] inches; 5 inch Porcelain Dial with Roman Numerals; French or Rococo Sash, Beveled Glass [illegible] Verde Bronze Columns . $22 00

Four in a [illegible]; Case weighs 122 [illegible]



BANGOR

Each

Bangor—Height 10¾ inches; Length of Base 16¼ inches; American Sash [illegible] Dial; 5 inch Dial with Roman Numerals; [illegible] $20 00

Six in a [illegible] Case weighs [illegible]

BRANDON

Each

Brandon—Height [illegible] Dial; 5 inch Dial with Roman Numerals; Plain Glass Front; Bronze Metal Trimmings... $20 00

Six in a Case, Case weighs [illegible]

BOSTON EXTRA

Each

Boston Extra—Height 11 inches; Length of Base 15 inches; American Sash and Dial; 5 inch Dial with Roman Numerals; Four Verde Bronze Columns $23.00

Six in a Case; Case weighs 205 lbs.

KITCHEN CLOCKS

ASSORTMENTS

Six Clocks in an Assortment.

We will Not Break an Assortment.

No. A—Oak

No. B—Oak

No. C—Walnut

MERCHANTS ASSORTMENT

The Above Three Styles Comprise the Merchants Assortment

Height 22¼ inches; Width 15 inches at Base [illegible] Doors, Cut [illegible] Hand Handy Carved Case

Per Assortment

No. MS—Six Clocks; Two of Each Pattern; 8 Day, Half Hour Strike..... $42 00

No. MA—Six Clocks; Two of Each Pattern; 8 Day, Half Hour Strike, with Alarm..... $44 00

No. MSA—Six Clocks; Assorted Patterns; 8 Day, Three Half Hour and [illegible] Half Hour Strike with Alarm..... 42 00

[illegible] Assortment in a Case; Weight for Assortment [illegible] Lbs.

(Made by the New Haven Clock Co.)

★ADVANCE ASSORTMENT

Height 19 inches; Width 15½ inches at Base; 6 inch Dial, Roman Numerals; Wire Bell; Doors; Glass Mahogany Finish Cases; Assorted Patterns.

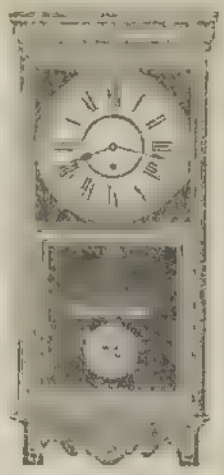
Per Assortment

Advance Assortment—Six Clocks; Four 8 Day, Half Hour Strike and Two 8 Day Half Hour Strike with Alarm.

Weight per Assortment 64 lbs. $30 00

One Assortment in a Case.

OFFICE CLOCKS



REGULATOR E

8 Day Time; Oak Case; Fancy Carved Moulding and Trimmings, Golden Finish; Glass Doors; Roman Numerals; Height 38½ inches.

Each

No. St 12—12 inch Dial.....$10 00

One in a Box, Three in a Crate; Crate weighs 90 lbs.

(Made by Sessions Clock Co.)

REGULATORE CALENDER

8 Day Time and Calendar; Oak Case; Golden Finish; Glass Doors; Roman Numerals, Fancy Carved Moulding and Trimmings.

Each

No. StC12—12 inch Dial.....$10 50

One in a Box, Three in a Crate; Crate weighs 90 lbs.

(Made by Sessions Clock Co.)

CLOCK KEYS

Cold Hard Drawn Brass Shanks; Stamped Brass Bows; Bright Finish.

No. K

No. P

Per Dozen

No. K—For Kitchen Clocks; Weight per Dozen 4 ozs..... $0.70

No. P—For Parlor Clocks; Weight per Dozen 5 ozs..... 80

Loose

OFFICE CLOCKS

REGULATOR A

8 Day Time; 12 inch Dial; Plain Octagon Polished Veneer Case; Glass Doors; Roman Numerals; H'g't 32 inches.

	Each
No. RAA Ash	$19 00
No. RAW Black Walnut	18 00

Three in a Case, Weight 91 lbs.
(Made by Ansonia Clock Co.)

REGULATOR ■

8 Day Time; 12 inch Dial; Fancy Octagon Polished Veneer Case; Glass Doors; Roman Numerals; H'g't 32 inches.

	Each
No. RBO—Golden Oak	$13 00

Three in a Case Weight 88 lbs. Made by Ansonia Clock Co.)

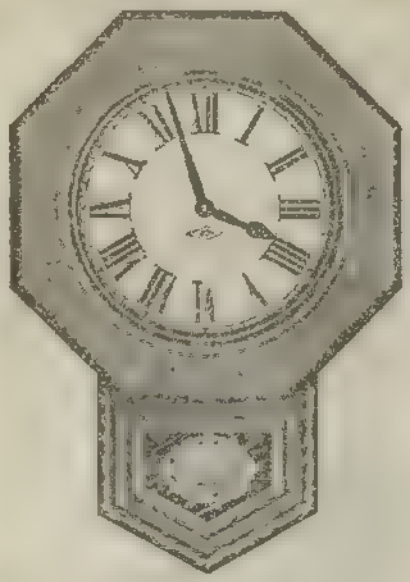
REGULATOR C

8 Day Time; 12 inch Dial; Plain Round Polished Veneer Case; Glass Doors; Roman Numerals; Ht. 32 inches.

	Each
No. RCO—Golden Oak	$14 00
No. RCR—Rosewood	14 00

Three in a Case; Weight 90 lbs.
(Made by Ansonia Clock Co.)

OFFICE CLOCKS



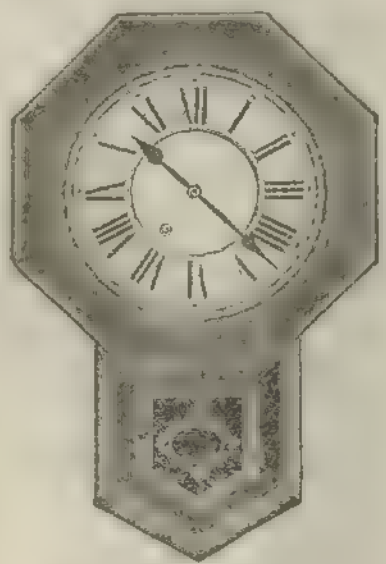
★NORLEIGH DIAMOND OCTAGON DROP

A Perfect Time Piece for Railroad Stations, Offices, Stores, Factories, Government Buildings, Schools, Hotels and General Hardware.

	Each
No. ND250—8 Day Time; 12 inch Dial, Polished Golden Oak Glass Doors, Roman Numerals; Height 17 inches	$11 00

Pendulum Perfectly Oak must be Hung Before Run. Should it Run too fast, Lengthen the Pendulum Rod, Shorten the Rod. Occupies Case, Weighs 20 lbs.

Made for and Guaranteed by Shapleigh Hardware Co.



OCTAGON DROP

8 Day Time; 12 inch Dial; Polished Veneer Case, Glass Doors; Roman Numerals; Height 24 inches

	Each
No. ODO12 Golden Oak	$13 00
No. ODR12 Rosewood	13 00

Six in a Case; Case Weighs 105 lbs.
(Made by Ansonia Clock Co.)

OFFICE CLOCKS

CABLE LEVER

8 Day Time; Round Cable Oak Case, Golden Finish, Glass Door; Roman Numerals; Second Hand

	Each
No. 68C—6 inch Dial	$8.50

One in a Cardboard Box; Twelve in a Case; Case Weighs 62 lbs.

(Made by Ansonia Clock Co.)

GRESHAM PENDULUM

8 Day Time; Round Oak Polished Veneer Case, Golden Finish; Glass Door; Roman Numerals; Without Second Hand.

	Each
No. G12—12 inch Dial	$12.00

One in a Box; Six in a Case; Case Weighs 84 lbs.

(Made by Ansonia Clock Co.)

PINEAPPLE SNIPS

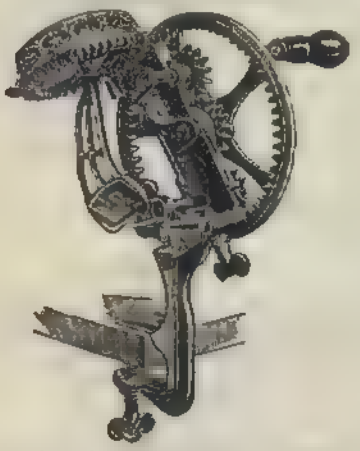
Works like a pair of shears, has spoon on one side, knife on the other. Can also be used for coring apples, shredding pineapples and potatoes, taking eyes from potatoes and the stem end from tomatoes

Pineapple Eye Snips.....Per dozen $4.00
One Dozen in a Box

APPLE PARERS

Cast iron frame and gear, tempered blue finished steel adjustable knife, coppered steel wire coil spring on knife arm, rust-proof, lacquered finish **Reading**

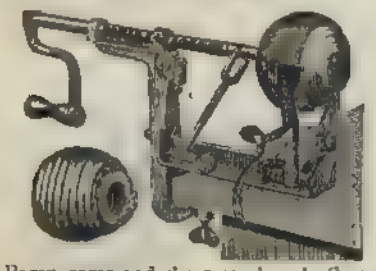
No. 72—Without push-off....Per dozen $10.50
One Dozen in a Case



Cast iron frame and gear, tempered blue finished steel adjustable knife, coppered steel wire coil spring on knife arm, finished in rust proof blue lacquer

Reading

No. 78—With automatic push-off.
Per dozen $15.00
One Dozen in a Box

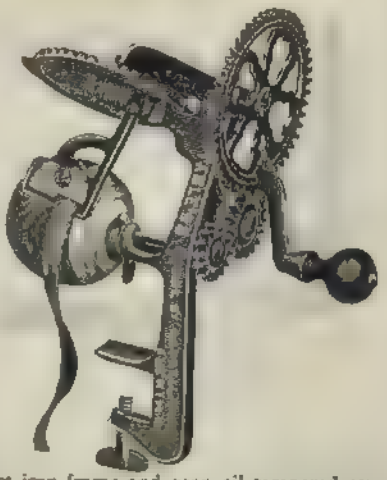


Parer, corer and slicer combined. Cast iron frame with automatic push-off, tempered blue finish steel adjustable knives, brass coil spring on knife arm and feed lever. Finished throughout with rust-proof blue lacquer.

White Mountain

No. 99.....Per dozen $9.50
One Dozen in a Case

APPLE PARERS



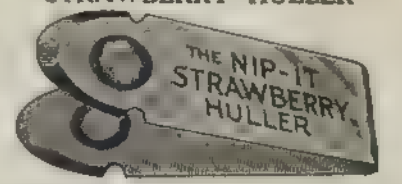
Cast iron frame and gear, oil tempered crucible steel adjustable blade, coppered steel wire coil spring on knife arm, finished in dark rust-proof lacquer.

No. 98—With automatic push-off.
Per dozen $15.00
One Dozen in a Case

APPLE CORERS

No. 1—IC tin plate, plain, seamed and soldered, size 3⅝ x 6 in
Per dozen $1.00
One Dozen in a Package

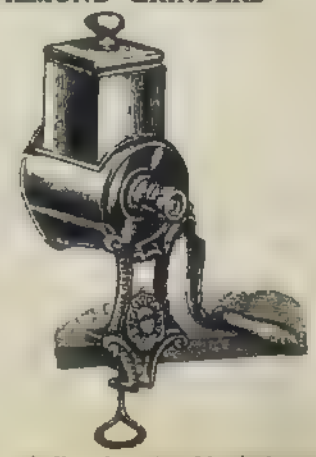
STRAWBERRY HULLER



Made of steel, nickel plated. Removes hull and keeps berries whole for table use, avoids stained fingers.

Nip-It—Strawberry Huller...Per dozen $0.75
One Dozen on a Display Card

ALMOND GRINDERS



Used for grinding almonds. May be fastened to table.

No. 3197—Height 13 in., diameter 3⅝ in.
Per dozen $18.00
Twelfth Dozen in a Case

COFFEE MILLS

Cast iron, nickel plated hoppers, finished in blue and buff and handsomely decorated. Hardened cast grinders, ball bearing with thumb screw adjustment on side of wheel. Easily opened for cleaning.

Nos.	Capacity of Hopper	Capacity per Minute	Height Over all Inches	Each
20½	7 oz	6 oz	15	$ 7.50
40	1 lb	½ lb	20½	12.00

One in a Case

Cast iron finished in blue and buff and handsomely decorated. Hardened cast grinders, ball bearing with thumb screw adjustment on side of wheel.

Nos.	Capacity of Hopper	Capacity per Minute	Height Over all Inches	Each
20	4 oz	6 oz	12½	$5.50
30	½ lb	½ lb	15	8.25

One in a Case

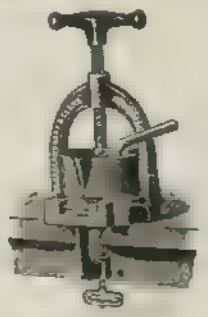
Cast iron, ball bearing, with slide cover and drawer, hardwood base. Height over all 12½ in., width 5 in

No. 11—Capacity of hopper, 4 oz..Each $3.50
Three in a Case

MEAT JUICE PRESSES

Cast iron japanned base, arch and T handled, deep threaded screw rod. Removable cast iron tinned cup, with lip and convex ribbed bottom

No. 1—Capacity ¼ pint . . . . . Each, $1.00
No. 2—Capacity ½ pint . . . . . Each, 1.50



Cast iron japanned base, arch and T handled, deep threaded screw rod. Removable cast iron tinned cup, with lip and convex ribbed bottom

No. 20—Capacity ½ pint, with table clamp . . . . . Each, $2.00
No. 30—Capacity 1 pint, with table clamp . . . . . Each 3.50

One in a Box

FRUIT AND VEGETABLE PRESSES

Japanned malleable iron handles, retinned stem, removable cup made of heavy tin plate. Besides being a fruit press, it serves equally well as a potato masher.

Silver's

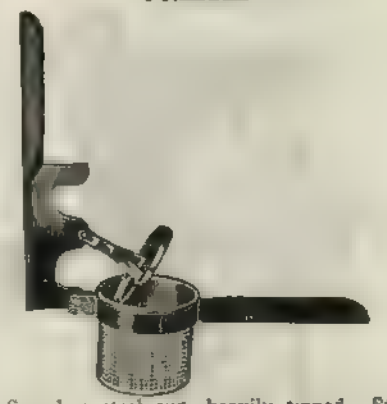
No. 4. . . . . Per dozen $6.50

Made of good material, cup is of IC tin plate

Silver's Pattern

No. 40 . . . . . Per dozen $5.50
Extra cups, ... Per dozen 2.50

FRUIT AND VEGETABLE PRESSES



Seamless steel cup, heavily tinned. Steel handles

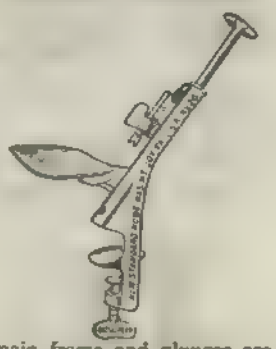
Universal

No. 1 . . . . . Per dozen $6.00
One Dozen in a Case

Double seamed cup, stamped steel handles 10 inches long, securely riveted to body. Perforated, 10 mesh both front and back. All parts nicely tinned.

No. 25—Regular size. . . . . Per dozen $3.50
Three Dozen in a Carton.

CHERRY STONERS



The main frame and plunger are of one piece construction. The spring is extra long, made of special wire guaranteed not to rust. Suitable for any size of cherries. All parts heavily tinned.

No. 30. . . . . Per dozen $10.00
One Dozen in a Box

Quick acting and efficient. Removes the stones and leaves the cherries the same as if opened by hand. Adjustable to any size cherry. Has clamp for attaching to table. Japanned finish

No. 20. . . . . Per dozen $8.25
Twelfth Dozen in a Carton
Twelve Cartons in a Case

CHERRY STONERS

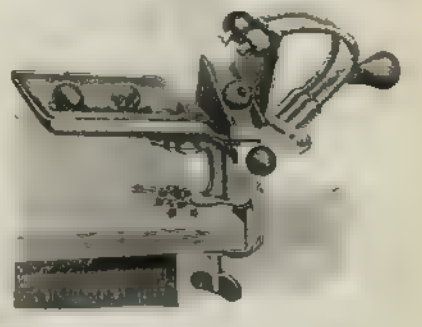
A very rapid stoner, may be quickly adjusted for any size cherries, rust proof, easily cleaned

No. 1—Japanned finish . Per dozen $16.00

No. 2—Tinned. . . . . Per dozen 17.00
Two Dozen in a Case

One piece steel plunger no springs The plunger is positively operated (both forward and returning movement) by a crank mechanism. Has extra large roomy hopper. The extended shute separates the pits from the seeded fruit, allowing ample room for receptacles.

No. 50—Tinned. . . . . Per dozen $19.00
One Dozen in a Box



Stones two cherries at each stroke without waste. Pits and fruit discharge separately.

Family

No. 2—Lacquered, height 5½ in.
Per dozen $6.00
One Dozen in a Box

Consists of two parts only, easy to operate, takes out stem and seed at same time, does not soil the hands, cherries are left in their round natural shape.

No. 10. . . . . Per dozen $1.75
One Dozen in a Box

Carbon-Proof Plug

The Champion Ignition Co., Flint, Mich., makes the AC Carbon-Proof Plug for Ford, Overland and Studebaker cars. It is claimed that this plug does not short circuit from soot or oil. The saw-tooth edges get hot

AC Carbon-Proof Plug

quickly and burn the soot or oil, thereby breaking the circuit and allowing full spark, so cleaning is not necessary.

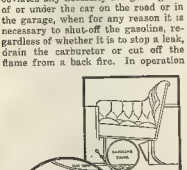
These plugs are said to be gas-tight, giving full power to the motor, quicker pick-up, can drive on fully advanced spark without motor knocking, causing the motor to speed up and allowing one to slightly retard gas throttle, with the result, a saving in gas. They retail at $1.

Dealers who order 500 plugs are offered a "silent salesman" in the shape of a showcase, the back of oak, with front and two sides glass. It is 39 in. high, 20½ in. wide and 20¼ in. deep.

Dealer's Showcase

Gasoline Shut-Off for Fords

The Sunderman Gasoline Shut-Off for Ford cars, patent applied for, is made by the Sunderman Corp., 9-11 Chambers Street, Newburgh, N. Y., and so designed that all that is necessary to cut off or restore the gas line is to pull or push the lever. To install this device it is only necessary to bore a hole in the floor board of the car, lift it, slip the shut-off over the handle of the gasoline pet cock, tighten the setscrew, attach the shut off handle to the shut-off with a cotter pin and slip it through the floor board. This obviates any necessity for getting out of or under the car on the road or in the garage, when for any reason it is necessary to shut-off the gasoline, regardless of whether it is to stop a leak, drain the carburetor or cut off the flame from a back fire. In operation



Sunderman Gasoline Shut-off for Ford cars

a pull of the handle shuts off and a push in the opposite direction starts the flow again of gasoline. It retails for 50 cents.

Molded Tubes

The Palmer Tire & Rubber Co., St. Joseph, Mo., has recently placed on the market a molded gum tube. They claim their tube is superior to the gum tube made on a straight mandrel. They have eliminated possible trouble at the splice and valve stem by curing the tube in a mold the same shape as the inside of the casing, thus making a splice in the same operation as curing or vulcanizing the tube. They also place the valve stem in the tube before curing, making a perfect valve seat. The molded tube when inflated in a casing is in its natural position or shape, and is not required to stretch more than a fraction of an inch because it is made almost the size of the inside of the casing.

The Palmer tube is made in two kinds of stock, a red and a gray. The

Reading matter continues on page 90

red stock on the inside serves for an air bag and the gray stock on the outside, which possesses wearing quality, also does its part as an air bag.

Tri-Co. Universal Rain Rubber

The Tri-Continental Corp., Sidway Building, Buffalo, N. Y., has improved its Tri-Co. Rain Rubber since first put on the market about a year ago. As now made, in different models, it is designed to fit every type of two-piece windshield. It slides with ease across

Tri-Co Universal Umbrella for Windshields

between the upper and lower glass, and is held firmly by spring pressure, which enables it to clear the whole shield the entire way across. A separate view of the Tri-Co. Universal Rain Rubber for windshields is shown distinct from its application to the shield.

Lectroflater

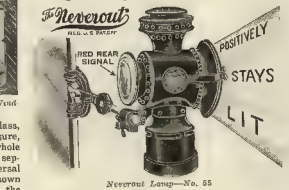
The Black & Decker Manufacturing Company, 107 South Street, Baltimore, Md., manufactures the Carriage Lectroflater. This portable device enables the air to be taken direct to the tire that needs inflation without moving car or tire. It will carry jack or wrench and saves much time and labor. It merely needs to be attached to the nearest electric light socket and in a very short time, it is claimed, the tire will be pumped from flat to full pressure, at a cost of about

Carriage Lectroflater

1/10c. for current. It has a standard tire chuck attached to 25 ft. of high pressure hose. The grease lubrication is automatically supplied by its capillary system. The movable carriage has a steel flange for holding tools on tray. The wheels have solid rubber tires. The plug will fit any standard socket and the motor will operate on either direct or alternating current. Prices range from $65 up.

Auto Standing Light

An auto standing light for attaching to windshield, or to dash on carriages, is made by the Rose Manufacturing Co., Philadelphia, Pa. The Neverout Lamp, No. 55, is made of drawn brass of heavy gage. It burns kerosene, but is entirely free from grease, it is asserted, because of the insulated kerosene reservoir. It can be taken apart and cleaned instantly. It has a bright, clear lens in front and large red semaphore in rear; red



Neverout Lamp—No. 55

and green side lights. Height 6¼ in. Diameter of front lens, 2½ in. Diameter of rear semaphore, 2 in. Furnished nickel plated or black enamel finish. The braket in illustration is packed with each lamp and can be used on right or left hand side of windshield or on bows of top.

Catalogs and Publications

The Paxton & Gallagher Co., wholesale hardware, Tenth Street Viaduct, Omaha, Neb., have issued what they believe to be the most complete automobile supply catalog published in the United States. Motorcycle and bicycle supplies are also listed. There is much information in the book for accessory dealers.

Counter Display

The Raybestos Co., Bridgeport, Conn., is offering a new dealer help

Raybestos counter display

to the trade. It consists of a large colored cardboard base for displaying the product on the counter. One of these cutouts is packed in each carton of 20 boxes of genuine Raybestos without wire for Ford cars, but any dealer who has purchased a quantity of the product can obtain one free on request.

Magnetic Rectifier

Most light and power current is alternating, that is, it reverses direction about sixty times a second and cannot be used to charge batteries. It is the purpose of the new F-F Rectifier, made by the France Mfg Co., Cleveland, Ohio, to change alternating current to direct charging current as it flows into the battery. This is done by a new, patented principle.

In the full wave type the line voltage is reduced to the proper charging voltage by a special transformer, and both the positive and negative halves of the alternating currents wave are rectified into a steady, unidirectional charging current, which makes the cost of charging so low that the rectifier quickly pays for itself, it is asserted.

The F-F makes every lamp socket a charging station and it takes only a minute to screw the plug on the end of wire into a lamp socket and connect the other two wires to the bat-

Rectifier as attached

tery—and the battery will be charged in a few hours, without it being necessary, in the case of an automobile, to remove it from the car—and at no more expense than for burning a 100 watt lamp for the same length of time. It is claimed a complete charge for the average starting and lighting battery costs about 6 cents, which is at the rate of ½ cent an hour.

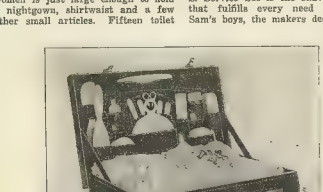
There is no wiring to be installed, nor is any technical skill required to operate the F-F Rectifier. Simply connect the Rectifier by the plug attachment and it will charge your batteries, automatically adjusting the rate of charge.

There are four portable types, ranging in price from $24 to $44.

Overnight Bag

For the business woman or, in fact, any woman who travels there is no gift more acceptable or better appreciated than the "overnight bag." It was designed particularly for use on business trips entailing an overnight stay and for week-end visits.

This handsome, convenient and compact traveling accessory for women is just large enough to hold a nightgown, shirtwaist and a few other small articles. Fifteen toilet necessities made of ivory pyralin are fitted inside the cover. The case is made of high grade fabrikoid, a pyroxylin coated leather substitute of great durability. This material is quite as beautiful as leather; is water, dirt, grease and stain-proof and can be kept immaculate with soap and water.



Overnight bag

The case is lined with either fabrikoid or cloth of a harmonizing color It is made by the E I. du Pont de Nemours Co., Wilmington, Del.

Keep Your License Dry

If you are a hunter or fisherman you know the problem of carrying your license, which is usually a mere "scrap of paper." When carried in the clothing, it is often hard to find when wanted. It gets wet, soiled, torn and wrinkled and the printing or writing soon becomes illegible. Here is a convenient, inexpensive holder which attaches to the belt and can be made by anyone in a few minutes. The holder is made of fabrikoid, which is an absolutely water and dirt proof material.

Get a piece of fabrikoid about 8 in. long by 3 in. wide; double it in the center and sew up the edges to form the pocket. Across the top of the pocket sew on two or three common snap fasteners for closing the pocket. Above the snaps cut a horizontal slit for a pocket opening and protect it with a flap, to keep out the rain and dirt. Two vertical slots in the upper half of the material permit the belt to pass through.

The holder lies flat against the person, is easy to get into and keeps the license dry and clean. It also serves as an ideal carrying place for matches.

Service Shaving Sets

United States war service regulations require a shaving outfit, and the soldier and sailor must provide his own razor. The new Gillette U. S. Service Set is the shaving outfit that fulfills every need of Uncle Sam's boys, the makers declare.

It is constructed with a metal case —built to withstand the roughest handling. An indestructible mirror fits snugly in the lid of the case. Thumb tacks for securing the mirror for use regardless of surroundings are included. Size complete, 4 in. long, 1⅞ in. wide, ⅝ in. thick. Slips

U. S. service set

into the breast pocket of the coat or shirt, takes up no room in the soldier's kit or the sailor's ditty box. Regular Gillette blades used with this set. Retail price, $5.

In roll case of U. S. Regulation khaki is a compact Gillette set to slip into the soldier's pocket or pack. Gillette Safety Razor and metal blade box containing 12 double-edged Gillette blades. Indestructible Trench mirror inside pocket. Razor and blade box nickel-plated. Size of set com-

Khaki set

No. 18—Military set

plete—4¼ in. long, 2 in. wide, ⅝ in. thick. Weighs next to nothing and takes no room. Retail price, $5

For Uncle Sam's officers, there is a Gillette Combination Set, in case of U. S. Regulation Khaki—nickel-plated Bulldog Razor, indestructible trench mirror fitted in pocket in lid; shaving brush and stick Gillette shaving soap in nickel-plated holders; nickel-plated blade boxes, 12 double-edged Gillette blades. Retail price, $7.

Publications

The Columbian Crew, successor to "Salesmanship of the Columbian Crew," appeared for July in a new size and with a cover in colors. It measures 7⅞ x 5¼ in. and is attractively printed and illustrated. It is issued by the Columbian Rope Co., Auburn, N. Y., which offers cash for suitable photographs

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CHURNS

ASH DASH

Seasoned Ash, Filled and Varnished; Staves are Tongued and Grooved; Bound with ⅞ inch Steel Hoops; Sunken Cover; Two Paddle Perforated Dasher; One Piece Bottom, Set in Grooves Hoops are Punched at Regular Intervals, and the Projecting Edges Sunk into the Wood to Hold them Securely in Place.

Nos.	AD0	AD1	AD2
Capacity, Gallons	4	5	7
Height, Inches	18	20	20
Weight, Dozen, Lbs.	145	180	215
Per Dozen	$24.00	26.00	28.00

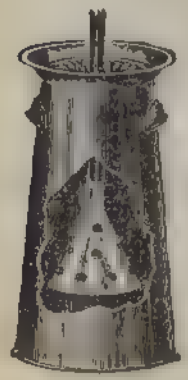
Half Dozen in a Crate

NO-SPLASH TIN

Extra Heavy Tin Body, Double Seamed and Soldered Side and Bottom; Top Rim is Turned Over and Wired to Give Strength and Rigidity; Flanged Bottom Rim; Large Side Handles; Deep Rimmed, Close Fitting, Stamped Tin Cover which Fits over the Outside, Having a Tin Tube Extending Downward into the Churn and a Deep Groove on Top near the Rim, which Comes Down Below the Top of the Can on the Inside and Fits Close Preventing the Cream from Splashing over Top Edge of Churn. Plain Hardwood Dasher.

Nos.	1X3	1X4	1X5
Capacity, Gallon	3½	4	5
Size, Inches	15x7½	20x7½	25x7½
Weight Dozen, Lbs.	65	85	95
Per Dozen	$20.30	22.00	26 00

Half Dozen in Crate



HOUSEHOLD

Made of IX Tin; Patent Dasher; Indented Top; Drains into Churn; Solid Side Handles; Long Perforated Tube Dasher with Handle.

Nos.	53	55
Capacity Gallons	3½	5
Size, inches	8¾x19	8¾x2
Weight per Dozen, lbs.	70	80
Per Dozen	$21.50	24.00

Quarter Dozen in a Crate

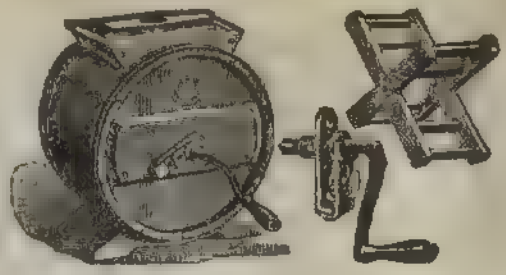
CHURN DASHERS

Per Dozen

No. CD—Wood Finished; 40 inch Turned Handle; Weight per Dozen 16 lbs. $2 20

One Dozen in a Bundle

CYLINDER CHURNS

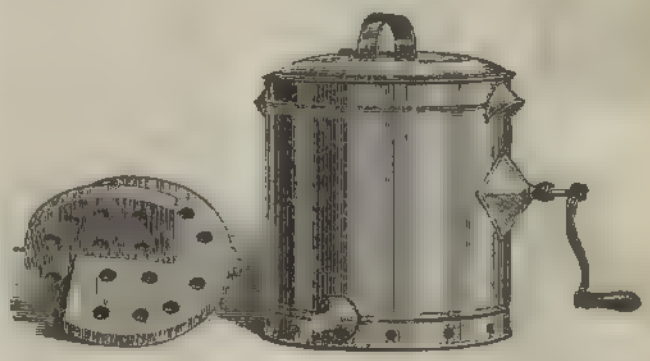


White Cedar, Solid Ends Fitted in Grooves in Stave Cylinder; Galvanized Steel Bands; Double Cedar Dasher; Galvanized Malleable Iron Crank Shaft; Crank is Locked by Clamp and Thumb Nut.

Nos.	CC1	CC2	CC3
Capacity, Gallons	3	4	7
Churning Capacity, Gals., about	1½	2½	4
Size Body, Inches	13x13	15x15	16¾x16¾
Weight Each, Lbs.	11	14	17½
Each	$5.50	7.00	9.00

One in a Crate

✣TRIUMPH



Double Seamed and Soldered; Highest Grade IXXX Tin Throughout; Rounded Bottom fits Revolving Dasher and Attaches to Sides in such Manner that there are no Corners to make Cleaning Difficult; Four Blade, Perforated Ash Dasher, Removable for Separating; Tinned Steel Axle; Reinforced Bearing; Cast Iron Crank with Wood Grip Handle; Heavy Tin Cupped Side Handles; Flanged Cover; Drain Spout at Bottom.

A Strictly Sanitary Churn; Speedy and yet of Wonderfully Easy Operation. Being made Entirely of Metal it is Easy to Change Temperature to Suit Conditions by Placing in Hot or Cold Water. Churns the Same whether Quantity is Large or Small.

Nos.	✣T3	✣T5	✣T7
Capacity, Gallons	3	5	7
Height, Inches	11½	13½	15½
Diameter, inches	10½	12½	12½
Weight Each, lbs.	7½	10	11
Each	$4.00	4.50	5.00
	5.34	6.00	6.66

One in a Crate

Items Marked ✣ are not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory at Louisiana, Mo.

WE SOLICIT YOUR INQUIRIES FOR PRICES ESPECIALLY WHEN LARGE OR UNUSUAL QUANTITIES ARE WANTED. WE GLADLY QUOTE YOU EXACT PRICES WHEN REQUESTED.

CHURNS

DAZEY

Frame—Iron and Steel; **Covers**—Two piece White Maple; **Dasher**—Seasoned White Maple, Dazey Patented Construction; **Knobs**—Enameled Wood; **Dash Rods**—Tinned Steel; **Gears**—Best Grade Cast Iron; **Faucets**—Cork lined Screw Cap; **Receptacles**—Made from Highest Quality Charcoal Tin Plate; **Finish**—Frames have two coats bright aluminum, Receptacle outside Enameled Blue.

Nos.	100	200
Capacity, Gallons	1	2
Churning Capacity, Gallons	½	1
Base Spread, inches	7	8
Height Over All, inches	17	21
Weight Each, lbs.	5	8
Weight Each, Crated	10	13
Each	$3.60	4.00

One in Crate

Frame—Iron and Steel; **Covers**—Two piece White Maple; **Dasher**—Seasoned White Maple, Dazey Patented Construction; **Knobs**—Enameled Wood; **Dash Rods**—Tinned Steel; **Gears**—Best Grade Cast Iron; **Faucets**—Cork lined Screw Cap; **Receptacles**—Made from Highest Quality Charcoal Tin Plate; **Finish**—Frames have two coats bright aluminum, Receptacle outside Enameled Blue.

No.	275
Capacity, Gallons	3
Churning Capacity, Gallons	2
Base Spread, inches	9
Height Over All, inches	23
Weight Each, lbs.	11
Weight Each, Crated	17
Each	$4.50

One in a Crate

Frame—Iron and Steel; **Covers**—Two piece White Maple; **Dasher**—Seasoned White Maple, Dazey Patented Construction; **Knobs**—Enameled Wood; **Dash Rods**—Tinned Steel; **Gears**—Best Grade Cast Iron; **Faucets**—Brass Nickel Plated; **Receptacles**—Made of Highest Quality Charcoal Tin Plate. **Finish**—Frames have two coats Bright Aluminum, Receptacle outside Enameled Blue.

Nos.	400	600
Capacity, Gallons	4	6
Churning Capacity, Gallons	3	4
Base Spread, inches	11	12
Height Over All, inches	27	31
Weight each, lbs.	16	27
Weight Each, Crated	25	37
Each	$6.50	7.50

One in a Crate

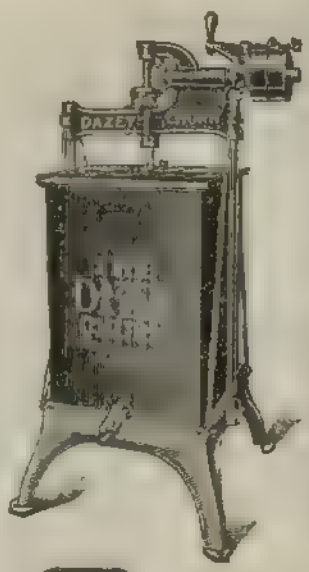
Frame—Iron and Steel; **Covers**—Two piece White Maple **Dasher**;—Seasoned White Maple, Dazey Patented Construction; **Knobs**—No. **1000** Enameled Wood, No. **1600** Porcelain Handle; **Dash Rods**—No. 1000 Tinned Steel, No. 1600 Steel Heavily Nickeled; **Gear**—Best Grade Cast Iron; **Faucets**—Brass, Nickel Plated; **Receptacles**—Made of Highest Quality Charcoal Tin Plate; **Finish**—Frames have two coats Bright Aluminum, Receptacle outside Enameled Blue.

Nos.	1000	1600
Capacity, Gallons	10	16
Churning Capacity, Gallons	7	12
Base Spread, inches	15	19
Height Over All, inches	39	47
Weight Each, lbs.	40	70
Weight Each, Crated	55	100
Each	$13.00	24.00

One in a Crate

CHURNS

DAZEY



Frame—Iron and Steel; **Covers**—Two piece White Maple; **Dasher**—Seasoned White Maple, Dazey Patented Construction; **Knobs**—Porcelain; **Dash Rods**—Steel, Heavily Nickeled; **Gears**—Machine Cut; **Faucets**—Brass, Nickel Plated; **Receptacles**—Made of High Quality Charcoal Tin Plate; **Finish**—Frames have two coats Bright Aluminum, Receptacle outside Enameled Blue.

No.	2800
Capacity, Gallons	28
Churning Capacity, Gallons	1[illegible]
Base Spread, inches	23
Height Over All, inches	48
Weight, Each	12[illegible]
Weight Each, Crated	2[illegible]
Each	$54.00

One in a Crate

Extra Heavy Clear Glass Jar, with a Finished Smooth Top. Steel Screw Cap Heavily Nickel Plated. Dasher of White Maple Thoroughly Seasoned. Dash Rod of Steel, Tinned, Making it Rust Proof; Frame Cast in One Piece. Natural Finish Wood Handle. Gears Carefully Fitted to Run Smooth and Noiseless; All Castings Double Aluminum Coated.

Nos.	10	20	30	40
Capacity, pints	3	5	7½	9
Churning Capacity, pts.	2	3	4	5
Height Over All, in.	11	12	13	14
Weight, each	3	5	7	8
Weight Boxed, Doz.	60	85	115	135
Per Dozen	$18 00	25 50	31 00	43 00

Twelfth Dozen in a Carton

EXTRA JARS FOR DAZEY FAMILY CHURNS

Nos.	10J	20J	30J	40J
Wt. Boxed, Doz.	40	55	80	90
Per Dozen	$3 60	6 00	8.40	12.00

Twelfth Dozen in a Carton.

DAZEY PRINCIPLE

Sanitary—Because Nothing to Absorb the Cream and become Rancid as with Wooden Churns. Can be Sunned Without Warping and Without Handling Entire Churn. Just lift the Receptacle out.

Cleaning—Is as Easily Accomplished as Cleaning an Ordinary Tin Pail, Because there are No Cracks or Complicated Gearings Inside. Not a Single Bearing Inside of Receptacle.

Temperature—Correct for Churning is Quickly Obtained by Placing the Receptacle or the Whole Churn in Hot or Cold Water.

Time—The Powerful Dasher Aided by the Square Corners of Receptacle, Produces a Scientific Agitation, Making it Possible to Churn in from 2 to 5 Minutes.

Yield—More Butter is Produced with the Dazey Dasher by Rolling All Butter Making Properties up with the Butter Fat into Grains.

Labor—Working of Butter is Eliminated by the Dazey; Because the Globules in Building up in their Natural Condition have Squeezed out all the Milk and Formed into Hard Uniform Sized Grains. To Wash off Outside of Grains is all that is Necessary.

CROSS CUT SAWS

E. C. ATKINS & CO.

Made of High Grade Crucible Steel, Evenly Tempered, Carefully Ground, Sharpened and Set; Polished and Etched; Segment Grinding Consists in Grinding Away the Central Portion of the Plate, Extending from the Back to Within about Two Inches of the Cutting Edge, Leaving the Saw Strong at the Ends and Allowing for Wear on the Tooth Side, Without Making the Saw Thinner in the Center than at the Ends.

No. 5—Perfection Lance Tooth, Perforated

Made in Silver Steel Only; 14 Gauge at Cutting Edge; 16 Gauge at Ends on Back; 20 Gauge at Center of Back Edge.

Length, Feet	5½	6	6½	7
Width at Center, inches	7	7⅛	7⅛	8
Weight Each, lbs.	5	7	7½	8
Each, Without Handles	$4 80	5 60	6.40	7.30
	8 46	9 86	11.28	12.86

No. 4—Perfection, No. 4 Blade; Cotton Wood Pattern, Lance Tooth, Perforated

Narrow Width, for Cutting Cottonwood and Other Soft Woods.

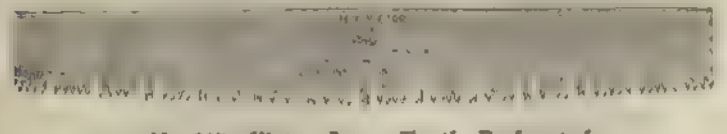
Silver Steel; 14 Gauge at Cutting Edge, 16 Gauge at Ends on Back, 20 Gauge at Center of Back Edge.

Length, Feet	6	6½	7
Width at Center, inches	6	6⅛	6⅛
Weight Each, lbs.	6	6½	7
Each, without Handles	$5 60	6.40	7 30
	9.86	11.28	12.86

No. 3—Peerless

Silver Steel; Thin Back Narrow Blade, 14 Gauge at Cutting Edge, 16 Gauge at Ends on Back, 20 Gauge at Center of Back Edge.

Length, Feet	6	6½	7
Width at Center, inches	6	6⅛	6¼
Weight Each, lbs	6	7	7¼
Each, without Handles	$5 60	5 40	7 30
	9.86	11.28	12.86



No. 225 -Victor, Lance Tooth, Perforated

High Grade, Oil Tempered Special Steel; Properly Ground and Set, **14 Gauge at Tooth Edge, 18 Gauge at Back Edge.** This Saw is Much Liked and Largely Used in the Northwestern Country.

Length, Feet	5	5½	6	6½	7
Width at Center, Inches	5	6¼	6¾	6¾	6⅛
Weight Each, lbs.	4¼	5½	7	7½	6½
Each, without Handles	$3 20	3.52	3.84	4 16	4.48
	6.00	6 80	7.18	7.78	8.36

Loose

All Above Wood Stripped on Cutting Edge.

NOTE—The following Numbers of Saws can be Furnished **Toothed to the End** from Factory only, at same Prices as Regular Stock: Nos. 5, 4 and 3.

CROSS CUT SAWS

E. C. ATKINS & CO.

Dexter Tooth
Thin Back

No. 219—Special Steel, 14x18 Gauge

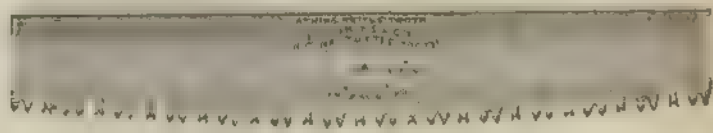
Length, Feet	5½	6	6½	7
Width at Center, inches	6½	7	7⅛	8
Weight Each, lbs	6	7	8½	10
Each, Without Handles	$4 40	4.80	5.20	5 60
	8 24	8.86	9.74	10 48

No. 220—Special Steel, 14x18 Gauge

Length, Feet	6	6½	7	7½	8
Width at Center, in.	7	7¼	8	8⅛	8⅛
Weight Each, lbs	7	8½	10	10½	11½
Each, Without Handles	$4 80	5 20	5 60	6 00	6 40
	8 98	9 74	10 48	11 22	11.96

No. 20—Silver Steel, 14x19 Gauge.

Length, Feet	6	6½	7
Width at Center, inches	7	7⅛	8
Weight Each, lbs.	7	8½	10
Each, Without Handles	$5.60	6 40	7 30
	9 86	11.28	12 86



Tuttle Tooth
Thin Back

No. 330—Special Steel, 14x18 Gauge

Length, Feet	5½	6	6½	7
Width at Center, inches	7	7⅛	7⅜	8
Weight Each, About, lbs.	5½	7	8	10
Each, without Handles	$2 64	2.88	3.12	3 36
	4 84	5 40	5.84	6 30

No. 331—Special Steel, 14x18 Gauge

Length, Feet	5	5½	6	6½	7
Width, Center, inches	6⅛	7	7⅛	7⅜	8
Weight Each, lbs.	5	5½	7	8	10
Each, without Handles	$2 00	2 88	3.12	3 38	3 64
	4 88	5 36	5 84	6.32	6.82

No. 332—Special Steel, 14x19 Gauge

Length, Feet	5½	6	6½	7	7½
Width, Center, inches	7	7⅛	7⅜	8	8⅛
Weight each, lbs.	5½	7	8	10	10
Each, without Handles	$3 36	3 62	3.88	4.15	4.40
	6 30	6 78	7 26	7.76	8 24

No. 332½ Special Steel, 14x20 Gauge

Length, Feet	5½	6	6½
Width, Center, inches	7	7⅛	7⅜
Weight, Each, lbs.	5½	7	8
Each, without Handles	$3 86	4 12	4 38
	7 22	7 72	8.20

+No. 517—Silver Steel, 14x20 Gauge

Length, Feet	5½	6	6½
Width, Center, inches	7	7⅛	7⅛
Weight Each, lbs.	5½	7	8
Each, without Handles	$4.80	5 60	6 40
	8.46	9.86	11.28

Loose.

All Above Wood Stripped on Cutting Edge.

NOTE—The following Numbers of Saws can be Furnished **Toothed to the End** from Factory only, at same Prices as Regular Stock; Nos. 219, 220, 20.

Items Marked + Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Indianapolis, Ind.

CROSS-CUT SAWS
E. C. ATKINS & CO.

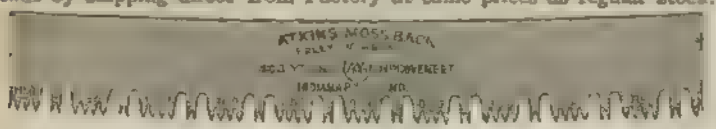
No. 222—DIAMOND TOOTH
Special Steel, Thin Back, 14x18 Gauge

Length, Feet	5½	6	6½
Width at Center, inches	6¼	7	7¼
Weight Each, lbs.	6½	7	8½
Each, without Handles	$3 50	3 60	3 90
	6.18	6.74	7.30

No. 223—LONE STAR DIAMOND TOOTH
Special Cast Steel, Thin Back, 14x18 Gauge

Length, Feet	5½	6	6½	7
Width at Center, inches	5⅝	5¾	5⅞	6
Weight Each, lbs.	6½	7½	8	8½
Each, without Handles	$3 60	3 60	3 90	4.20
	6.18	6.74	7.30	7.86

NOTE—Nos. 222 and 223 Saws can be furnished Toothed to the ends by shipping direct from Factory at same prices as regular stock.



MOSS BACK (Illustration shows Lance Tooth, Perforated)
Segment Ground; 14 Gauge at Tooth Edge, 18 Gauge at Back Edge

Embodying all the Improvements in Cross-cut Saws; Practical Uniformity of Thickness of the Toothed Edge; Thin Back; Hollow Back; Stiff Ends; Hand Brought Down to Line of Cut; Perforated Blade, Diamond Tooth and Raker, Segment Ground; High Grade of Steel; Hard and Tough Temper; Perfection in Manufacture and Finish; Each Saw Warranted Perfect in Every Respect.

✣No. 276—Special Steel, Dexter Concave Tooth (Not Perforated

Length, Feet	4	4½	5	5½	6
Width at Center, in.	5	5¼	5½	5¾	6¼
Weight Each, lbs.	3½	4	4½	5	6
Each, without Handles	$3 20	3.60	4.00	4 40	4.80
	6.00	6.74	7.48	8.24	8.98

Length, Feet	6½	7	7½	8
Width at Center, inches	6½	6¾	7	7¼
Weight Each, lbs.	7½	8½	10	11
Each, without Handles	$5 20	5 60	6 00	6 40
	9 74	10 48	11.22	11.98

✣No. 275S—Silver Steel, Dexter Tooth (Perforated)

Length, Feet	4	4½	5	5½	6
Width at Center, in.	5	5¼	5½	5¾	6¼
Weight Each, lbs.	3½	4	4½	5	6
Each, without Handles	$3 10	3 60	4 10	4.80	5 60
	4.96	5.76	6.56	7.68	8.96

Length, Feet	6½	7	7½	8
Width at Center, inches	6½	6¾	7	7¼
Weight Each, lbs.	7½	8½	10	11
Each, without Handles	$6 40	7.30	8.30	9.30
	11 28	12 86	14.62	16 38

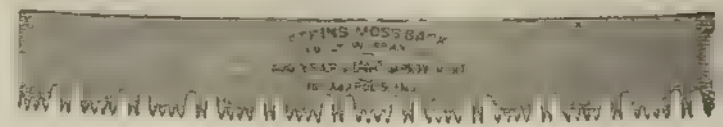
✣No. 272S—Silver Steel, Tuttle Tooth (Not Perforated)

Length, Feet	4	4½	5	5½	6
Width at Center, in.	5	5¼	5½	5¾	6¼
Weight Each, lbs.	3½	4	4½	5	6
Each, without Handles.	$3 10	3.60	4.10	4 80	5 60
	5 46	6.34	7.22	8.46	9 86

Length, Feet	6½	7	7½	8
Width at Center, inches	6½	6¾	7	7¼
Weight Each, lbs.	7½	8½	10	11
Each, without Handles	$6 40	7 30	8.30	9 30
	11 28	12 86	14 62	16 38

Loose.
All Above Wood Stripped on Cutting Edge.

CROSS-CUT SAWS
E. C. ATKINS & CO.



MOSS BACK (Illustration shows Lance Tooth, Perforated)
Segment Ground; 14 Gauge at Tooth Edge, 18 Gauge at Back Edge

Embodying all the Improvements in Cross-cut Saws; Practical Uniformity of Thickness of the Toothed Edge; Thin Back; Hollow Back, Stiff Ends; Hand Brought Down to Line of Cut; Perforated Blade; Diamond Tooth and Raker, Segment Ground, High Grade of Steel; Hard and Tough Temper; Perfection in Manufacture and Finish; Each Saw Warranted Perfect in Every Respect.

✣No. 278—Special Steel, Lance Tooth, Perforated

Length, Feet	4	4½	5	5½	6
Width at Center, in.	5	5¼	5½	5¾	6¼
Weight Each, lbs.	3½	4	4½	5	6
Each, without Handles.	$2.80	3.15	3.50	3.85	4.20
	5.24	5.90	6.56	7.20	7 86

Length, Feet	6½	7	7½	8
Width at Center, inches	6½	6¾	7	7¼
Weight Each, lbs.	7½	8½	10	11
Each, without Handles	$4 55	4 90	5 25	5 60
	8.52	9 18	9.82	10 48

✣No. 273—Special Steel, Tuttle Tooth, Perforated

Length, Feet	4	4½	5	5½	6
Width at Center, in.	5	5¼	5½	5¾	6¼
Weight Each, lbs.	3½	4	4½	5	6
Each, without Handles.	$2.80	3.15	3.50	3.85	4.20
	5.24	5.90	6.56	7.20	7.86

Length, Feet	6½	7	7½	8
Width at Center, inches	6½	6¾	7	7¼
Weight Each, lbs.	7½	8½	10	11
Each, without Handles	$4 55	4 90	5 25	5 60
	8.52	9.18	9.82	10 48

✣No. 277—Special Steel, Lance Tooth (Not Perforated)

Length, Feet	4	4½	5	5½	6
Width at Center, in.	5	5¼	5½	5¾	6¼
Weight Each, lbs.	3½	4	4½	5	6
Each, without Handles.	$2 64	2 97	3 30	3.63	3 96
	4 94	5.56	6.18	6.80	7.42

Length, Feet	6½	7	7½	8
Width at Center, inches	6½	6¾	7	7¼
Weight Each, lbs.	7½	8½	10	11
Each, without Handles	$4 29	4 62	4 95	5 28
	8.04	8 64	9 26	9.88

✣No. 272—Special Steel, Tuttle Tooth (Not Perforated)

Length, Feet	4	4½	5	5½	6
Width at Center, in.	5	5¼	5½	5¾	6¼
Weight Each, lbs.	3½	4	4½	5	6
Each, without Handles.	$2.64	2.97	3.30	3.63	3.96
	4.94	5.56	6.18	6.80	7.40

Length, Feet	6½	7	7½	8
Width at Center, inches	6½	6¾	7	7¼
Weight Each, lbs.	7½	8½	10	11
Each, without Handles	$4 29	4 62	4 95	5.28
	8 04	8 64	9 26	9.88

Loose
All Above Wood Stripped on Cutting Edge.

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, F. O. B., Indianapolis, Ind.

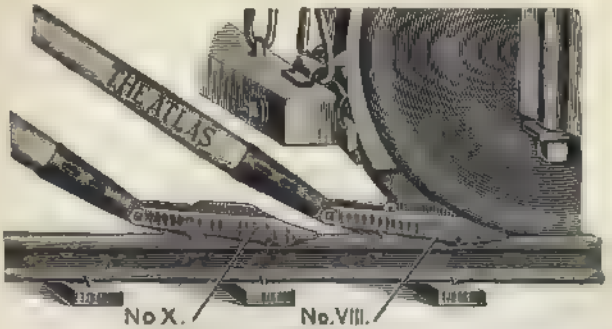


Fig. 105

Atlas Car Mover

Price.....each $5 00

Fig. 106

Price List For Repairs

No.		Each
V	Link, with 2 rivets	$0 50
VI.	Arch Lever, or Knee, 2 rivets	.50
VII	Socket, with bolt and 1 rivet...	1 50
VIII.	Shoe, with bolt and 1 rivet .	1 50
X	Shoe, with bolt and 1 rivet ..	1.50
Handle		1 00
Plate or Clamp		25
Spur, or heel, single . .		25
Double or two piece spur . per pair		25

Fig. 107

Samson Car Mover

	Each
Samson Car Mover	$5 00
Samson Locomotive Mover	6 00

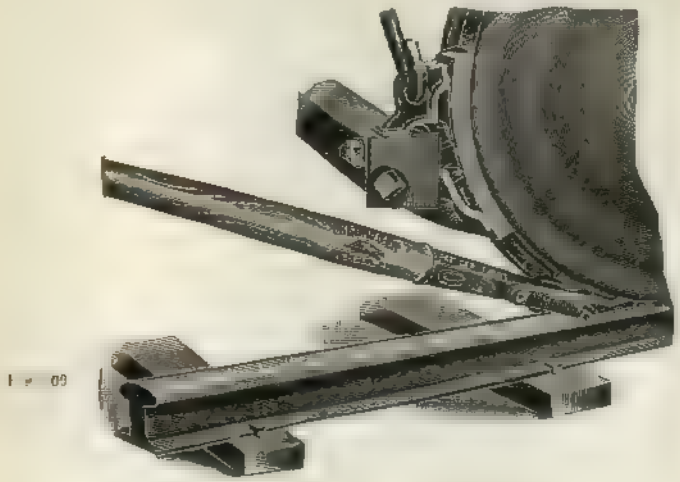
Price List
Samson Car Movers and Repairs

0	Cam	$0 20
2	Wood handle	1 00
3	Square spur...	25
4	Spring	25
5	Arm.....	1 25
6	Shoe for diamond spur...	1 25
8	Shoe for square spur .	1 25
9	Diamond spur.	25
13	Clamp.....	20
A	Clamp bolt, .	.04
B	Shoe bolt	05
C	Shoe rivet.....	02
D	Cam pin	02
Complete mover ..		5 00

Fig. 108

The "Badger" Never-Slip Car Mover

It Won't Slip



Price, complete, with one set extra spurs . . . . . each $5 00
Extra steel spurs. . . . . each 25

Extra Parts for "Badger" Never Slip Car Movers

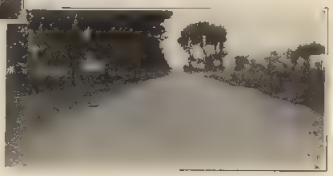
Fig. 110

Repairs for "Badger" Never-Slip Car Movers

No		Each
7.	Cam or toggle, with rivet	$0 75
8.	Socket complete, with bolt	1.50
9	Shoe complete, with bolt .	1 50

THE STANDARD METHOD of SURFACE TREATMENT

Below is a water bonded Gravel Road treated with Stanolind Paving Asphalt at 300°F., 45 pounds pressure, applied one-half gallon to the square yard by special pressure tank wagon shown in other illustration.

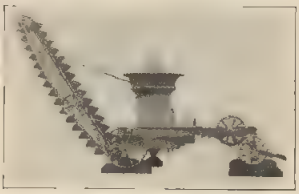


One application of Stanolind Paving Asphalt on Macadam and Gravel Roads has given three years' service with practically no expense. Builds more substantial surface at half the cost of light oil treatment for three years. Can be applied on roads previously treated with Road Oil.

Write today for free booklet, "Stanolind Paving Asphalt."

STANDARD OIL COMPANY
(INDIANA)
72 W. Adams Street, Chicago, Ill.

Austin Portable Gyratory Crushers



are the economical solution of many difficulties arising in street, sewer and bridge or building construction; in fact, any job entailing broken stone supply within city limits.

Austin Gyratory Crushers, both fixed and portable types, have been used on such work as New York Subway and Water Tunnels and Chicago city streets to crush old paving blocks and in the water tunnel under Lake Michigan. Their reliable working and excellent construction saved thousands of dollars on these projects of first importance.

Write for catalog.

AUSTIN MANUFACTURING COMPANY - CHICAGO

New York Office—50 Church St.

Asphalt Macadam
made with
STANOLIND
PAVING ASPHALT

Is the best road you can build for the money. Its advantages are manifold. It is dustless, noiseless, sanitary, pleasant to drive over, good traction, low maintenance cost.

If you use Stanolind Paving Asphalt you will be assured you have built the best road possible to obtain.

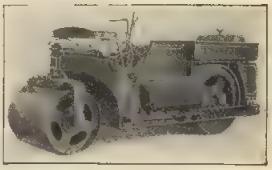
Furnished at any consistency. Information and specifications covering all kinds of Asphalt Roads, construction and approximate cost, furnished free on request.

Send for free copy of new booklet, "Stanolind Paving Asphalt."

STANDARD OIL COMPANY
(INDIANA)
72 W. Adams Street, Chicago, Ill.

MACADAM

PAVING



TANDEM

of city streets, whether with brick, asphalt or other methods, requires a dependable roller to roll the sub-grade, consolidate the material or finish the surface. Steady running, smooth reverse, flexible range of speeds, all under the instant command and control of the operator, are the features of the Austin Tandem and three Wheeled Rollers.

Established for ten years on the market, Austin Rollers are used by the best authorities on road building, not only in the United States, but in almost every civilized country throughout the world.

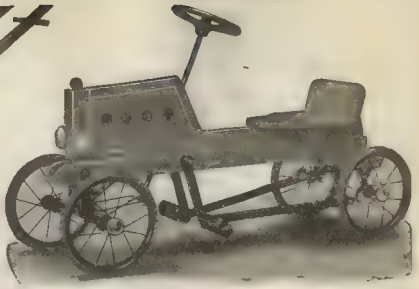
Using gasoline, kerosene or distillate, these rollers show a large saving in cost of operation and will average 25% more work than any other type.

Write for our printed matter on all kinds of road equipment.

THE AUSTIN-WESTERN ROAD MACHINERY COMPANY, Chicago

We manufacture 236 sizes and styles in our line of road equipment

ROLY-AUTO.



All tempered tester springs, weighing 5 lbs.; fool proof stops, 50 lbs. Upholstering of tufted leatherette on seat and lazy back; 10 inch rubber tired wheels, ⅝ or ½ inch, with hub caps; Mortise-and-tenon seat-frame, with high back; arm-rests of wood, gracefully shaped; gracefully shaped metal fenders; yellow pine tongue, with black handle; foot rests of new pattern and are adjustable; finished in brilliant red, with body varnish.

Each.

No. 38U—Reversible Sulky **$7.50**

Two in a box; weight per box, 24 lbs.

Each

No. 290—Captain Roly-Auto; body, 30 inches long, painted red, striped and decorated in yellow and black; seat, 10½ inches high; wheels, 8 inches diameter, black; ½-inch rubber tires; propelling gear, steering wheel and rod, black; packed two in a crate, weight per crate, 50 lbs..... **$12.00**

IRISH MAIL.

The original and only real Irish mail, easily distinguished from all other Hand cars by the name "Irish Mail" which is on the seat of every genuine Irish Mail. All others are imitations.

Each.

No. 2M—Irish Mail; frame of selected hardwood, 36 in. long; seat, 9x20 in.; 8-inch front wheels, 12-inch rear wheels, ½-inch rubber tires; frame and lever painted three coats of red; seat three coats of green; sanded after each coat to give smooth glossy finish; seat attractively decorated with transfer designs; frame, seat and lever neatly striped and finished with coat of varnish; grips black baked enamel; gears and iron work black baked enamel, wheels tin plated. Equipped with protected gears, adjustable front axle so car can be made to fit any child three to twelve years of age; wheels have tangent spokes and machine is geared for speed; weight each, 33 lbs..... **$10.50**

One in a crate.

JUVENILE AUTOMOBILE.

Each

No. 99—Autocycle, with ⅜ inch rubber tires; height, 25 inches; length of wheel base, 27 inches; width of wheel base, 17 inches; wheels, 10 and 16 inch. Equipped with wheel steering device, finish; red, neatly ornamented and striped, weight each 33 lbs..... **$11.50**

No. 100—Autocycle, same as No. 99, but larger, ⅜ inch rubber tires; height 29 inches; length of wheel base, 30 ins.; width of wheel base, 17 inches in front; 18 inches in rear; wheels, 12 and 18 inches; weight each 45 lbs..... **13.50**

One in a crate, K. D.

OVAL IRON TIRES.

Frames steel japanned, wheels "C" plate, oval iron tires, coil spring seat.

Nos.	1	2	3
Front wheel, inches	16	20	24
Rear wheels, inches	12	14	16
Weight each, pounds	14	17½	19½
Each	$5.20	6.00	6.95

One in a crate, knocked down.

RUBBER TIRES.

Same as Nos. 1, 2 and 3 but with rubber tires, ½ inch in front, ⅝ inch in rear.

Nos.	1R	2R	3R
Each	$7.50	8.00	9.30

One in a crate, knocked down.

BADGER

Ball Bearings—All ball bearings are case hardened; will not cut. The complete ball bearing equipment makes it possible for the child to operate the machine with very little effort.

Handle Bars—Adjustable, nickel plated, with wound leather grips.

Saddle—Best quality, brown, shaped, padded bicycle saddle. Perfectly shaped for comfort.

Pedals—High grade rat-trap Bicycle pedals.

Tires—¾ in. heavy rubber.

Finish—Frame and wheels enameled with maroon bicycle enamel, baked. Double orange striped on fork and backbone.

Each

No. 461—Diameter of front wheel, 16 ins.; diameter of rear wheels, 12 ins; weight each, 30 lbs. $18.00

No. 462—Diameter of front wheel, 20 ins.; diameter of rear wheels, 14 ins.; weight each, 35 lbs. 20.00

No. 463—Diameter of front wheel, 24 ins.; diameter of rear wheels, 16 ins ; weight each, 45 lbs. 21.50

One in a crate, knocked down.

FAIRY.

BALL-BEARING.

Frame construction is of ⅛-inch cold-drawn seamless steel tubing, brazed at all joints so that there is no danger of joints coming apart or becoming loose

The wheels are all ball bearing and of spoke and nipple construction so that any damage to the wheels can be economically and speedily repaired.

The equipment includes one-inch cushion rubber tires, wired onto the steel rims; spring saddle; ball bearing pedals, and adjustable handle bars.

The finish of the frame and forks is in a beautiful glossy maroon baked-on enamel, striped in silver; the hubs, spokes, handle bars and small parts are all nickel plated and buffed.

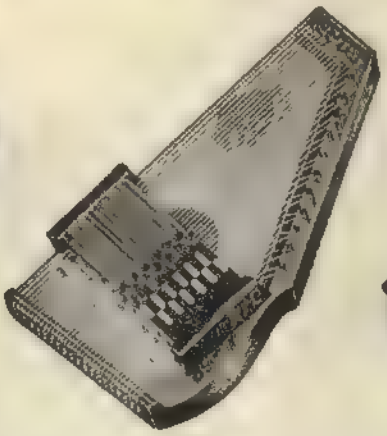
Velocipedes are made in three sizes, as follows:

Nos	81	82	83
Diameter front wheel, inches	16	20	24
Diameter rear wheel, inches	10	14	16
Children's age, years	3-4	4-5	5-6
Weight crated, lbs	23	28	32
Each	$21.00	25.00	30.00

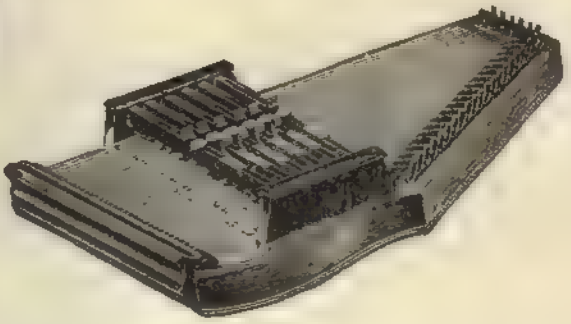
AUTOHARPS

Simple to learn. Children exercise considerable energy as progress is rapid. Music sweet and melodious. No home should be without one.

No. 923/4



No. 973



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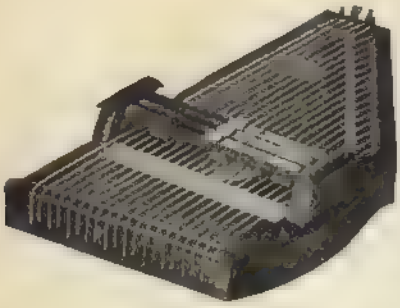


No. 971

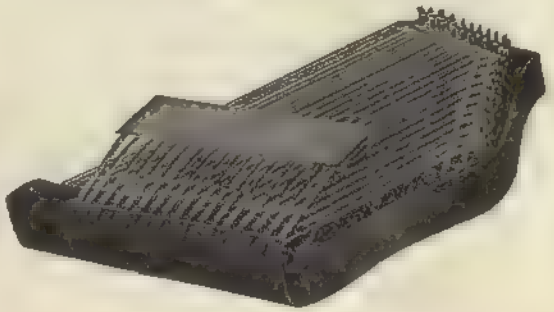
No. 971 20 Strings, 3 bars, producing 3 chords, C and F major and G seventh, ebony finish. Each $12 60
No. 923/4 The Favorite, 23 strings, 5 bars, producing 5 chords, C, F and Bb major, C and G seventh, ebony finish, neatly decorated Each 13 80
No. 972 32 Strings, 8 bars, producing 8 chords, C, F and Bb major, C, G and E seventh, D and A minor, ebony finish, nearly decorated Each 18 20
No. 973 37 Strings, 12 bars, producing 12 chords, G, C, F and Bb major, G, C, D, E and A seventh, A, D and G minor, ebony finish, neatly decorated Each 24.00
No. 96 32 Strings, 6 bars, producing 16 chords, A, C, F, Bb, and G and D major, D, G, C and A seventh, E, D, G, B and A minor, C diminished seventh, finished in natural spruce top, ebony veneer sides, white holly bound edges, highly polished. In wood case. . . . . Each 58.20

NOTE. Above are Fitted with Tuning Hammer, 2 Picks, Music Rack and Instruction Book, Complete. Lists of Music Furnished upon Application.

THE "CELESTAPHONE"

THE LATEST AND DAINTIEST MUSICAL NOVELTY

Played by the pressure of fingers on keys, the same as a piano. Keys can be struck singly, in double stops, or in full chords.



No. 97

GIVES THE TREMOLO EFFECT OF THE MANDOLIN ACCOMPANIED BY FULL GUITAR CHORDS

Fifteen Pairs of Mandolin Strings and Four Sets of Guitar Chords. Handsomely Finished, with Piano Polish. In Substantial Wooden Box. With Instruction Book and Music
No. 97 Each $18 20

ORCHESTRA BELLS. LOW PITCH AND HIGH PITCH.

L. Pitch No.	H. Pitch No.	
95	94	F to F, 2 octaves, chromatic, 25 steel bars, ⅛ inch thick, ⅞ inch wide, in a wood case, 19x13½ inches, covered with black canvas, leather handle and metal corners and trimmings $29 00
96	93	F to F, 2 octaves, chromatic, 25 steel polished bars, 5-32 inch thick, 1 inch wide, in solid oak case, 19x13½ inches, strong brass handle and trimmings 37.80

PARLOR BELLS. LOW AND HIGH PITCH.

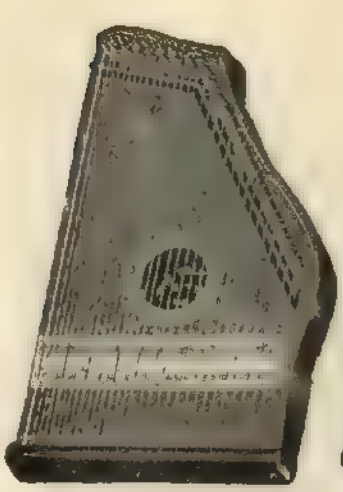
L. Pitch No.	H. Pitch No.		Per Set
9101	911	12 Blued Steel Bars, on frame, key of A.....	$ 6 00
9102	912	12 Blued Steel Bars, on frame, key of Ab....	6.00
9103	913	12 Blued Steel Bars, on frame, key of C.....	6.00
9104	914	20 Blued Steel Bars, on frame, chromatic....	11.00

DUSTERS

No. 9357

No. 90356 Woven down, 6x9 inches, 9 inch handle. Each ...$4 60
No. 9357 Woven down, 6x10 inches, 16 inch handle. Each.. 5.00

COLUMBIA ZITHERS



No. 92

No. 92½

No. 91 Ebony finish, gilt striping around sound-hole and edges, 31 strings, 4 chords, in key of C.....Each $11.40

No. 92 Ebony finish, gilt striping around sound-hole and edges, arm rest over hitch pins, 31 strings, 4 chords in key of C....Each 11.80

No. 92½ Ebony finish, gilt striping around sound-hole and edges, arm rest over hitch pins, 31 strings, 4 chords, keys of C and F..... Each 13.00

Each instrument in a pasteboard box with Instruction Book, Tuning Key, Music Rack and Ring. Special list of music furnished on application.

COLUMBIA ZITHER CASES.

No. 941 Columbia Zither Cases, superior model and quality, flannel lined, for No. 91.....Each $4.60

No. 942 Columbia Zither Cases, superior model and quality, flannel lined, for No. 92 ..... Each 4.60

No. 943 Columbia Zither Cases, superior model and quality, flannel lined, for No. 92½ .....Each 4.60

GUITAR ZITHERS

No. 90 Maple, cherry stained, polished, 27 strings, 3 chords, C, F and G major Each . . . . . $ 7.10

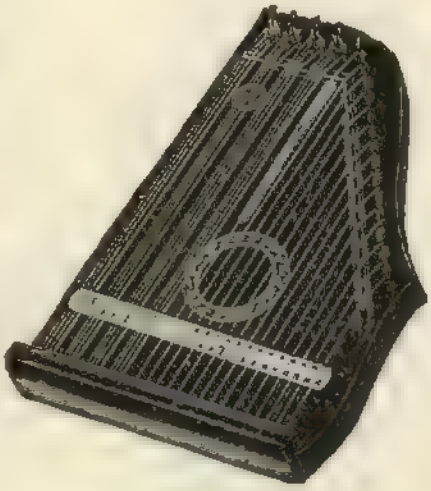
No. 90½ Maple, cherry stained, polished, with hand rest, 31 strings, chords C, G and F major and G seventh.....Each 11.40

No. 92 Ebonized maple, highly polished, ornamentation around sound-hole, hand rest, 31 strings, 4 chords, C, G, F major and G seventh . . . Each 12.00

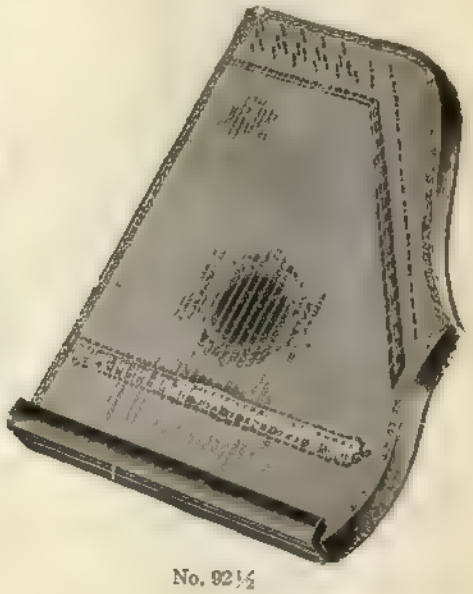
No. 92½ Ebonized maple, highly polished, ornamentation around sound hole and edges, hand rest, 41 strings, 5 chords A, D, F, G and C major Each 13.80

No. 93½ Ebonized maple, highly polished, handsomely ornamented around sound-hole and edges, nickel plated tuning pins, 51 strings, chromatic scale, 8 chords, C, G, F, D, A, E major and A, D minor Each 17.60

Each instrument in pasteboard box, with Instruction Book, Tuning Key, Music Rack and Ring. Tuning Scale on each instrument. Lists of Music for Guitar Zither furnished upon application.



No. 92



No. 92½

GUITAR ZITHER CASES

No. 932 Guitar Zither Cases, canvas, superior model and quality, flannel lined for No. 92½ . . . Each $4.60
No. 936 Guitar Zither Cases, canvas, superior model and quality, flannel lined for Nos. 90 and 90½ Each 4.60
No. 938 Guitar Zither Cases, canvas, superior model and quality, flannel lined, for No. 92 . Each 4.60
No. 940 Guitar Zither Cases, canvas, superior model and quality, flannel lined, for No. 93½ Each 4.60

Zither Furnishings can be obtained at lowest prices.

ZITHERS

PRIM SIZE.
With Patent Heads.

No. 912 Imitation rosewood, inlaid sound-hole and edges, in pasteboard case... Each $21.30

CONCERT SIZE.
With Patent Heads.

No. 970 Imitation rosewood, inlaid sound-hole, in pasteboard case. . Each $25.20

Our Rock-bottom Quotations include boxing. Safe delivery insured. All orders filled promptly. No delay.

THE "ARION" ZITHER

Nos. 9110, 9111

PRIM SIZE.

No. 9110 Beautiful imitation rosewood top, inlaid sound-hole, edges bound with wood and celluloid, highly polished, our own make machine head in pasteboard box. .....Each $58.20

CONCERT SIZE.

No. 9111 Same description as No. 9110, concert size..... Each 58.20

FINE LINE OF AUTOMOBILE AND MOTORCYCLE CLOCKS

PRICES EACH

FIAT (New Haven)

Motorcycle Clock. Height, 2⅜ inches. Width, 2⅛ inches. One Day Time. Stem Wind and Stem Set. Case of Heavy Brass, nolding a Complete Watch. Finishes of Cases are Polished Brass, Nickel or Black Enamel.

No. 5390 Each.....$4.65

COWL DASH No. 1 (Waterbury)

Bezel Wind and Set. Polished Brass or Nickel or Gun Metal Finish (for Automobiles). 8 Day Time. 2½ inch Porcelain Dial. Beveled Glass. Screw Bezel. Diameter at back for opening in Cowl Dash, 2⅞ inches.

No. 5391 Each.....$16.00

FLORIDA (Waterbury)

Polished Brass or Nickel or Gun Metal Finish (for Automobiles). 8 Day Time. 2½ inch Porcelain Dial. Beveled Glass. Measures across the back, 4 inches. Winds, Regulates and Sets from Outside.

No. 5392 Each.....$13.60

DUANE (New Haven)

Automobile Clock. Height, 3½ inches. Width, 2⅜ inches. One Day Time. Stem Wind and Stem Set. Case of Polished Brass, Nickel or Black Enamel. Clock is screwed to Dash-board.

No. 5393 Each.....$4.65

OCALA (Waterbury)

Polished Brass or Nickel or Gun Metal Finish for Automobiles. Jeweled Movement. 2¼ inch Porcelain Dial. Beveled Glass. Screw Bezel. Measures across the back, 3⅞ inches.

Key Wind. 8 Day Time.

No. 5394 Each.....$14.20

ARCADIA (Waterbury)

Bezel Wind. 8 Day Time.

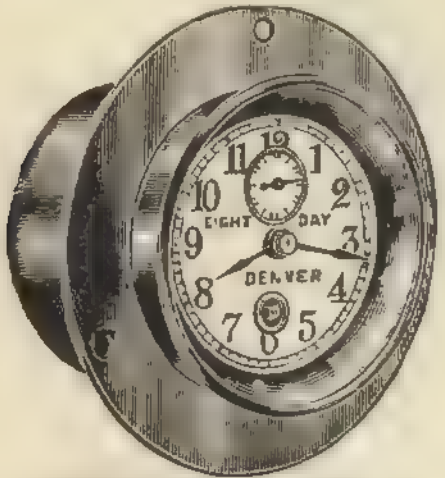
No. 5395 Each.....$17.60

NEW ORMOND (New Haven)

Automobile Clock. Height, 4 inches. Width, 4 inches. 3 inch Porcelain Dial. Eight Day Time. Key Wind. Case is Solid Brass, Nickel or Black Enamel Finish.

Has Burglar Proof Locking Device.

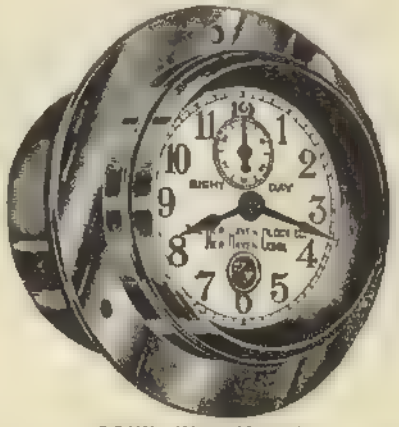
No. 5396 Each.....$12.95



DENVER COWL (New Haven)

Automobile Clock. Diameter, 3½ inches. Diameter of Opening, 2½ inches. Eight Day Time. Key Wind. Case is Solid Brass. Nickel or Black Enamel Finish. This Denver Cowl Clock sets close to Dash.

No. 5397 Each.....$10.25



COWL (New Haven)

Automobile Clock. Height, 3½ inches. Width, 3⅛ inches. 2¼ inch Silver Dial. Eight Day Time. Key Wind. Case is made in Nickel, Black Enamel Finish. Is attached to Cowl-board with three screws. Projects only ¾ inch from Board.

No. 5398 Each.....$13.60

SHASTA (New Haven)

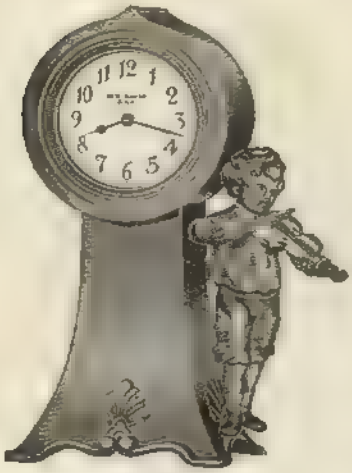
Automobile Clock. Height, 3 inches. Width, 3¼ inches. 2¼ inch Dial. Eight Day Time. Key Wind. Case is Solid Brass, Nickel or Black Enamel Finish. An offset clock is of the most approved type. No Locking Plate.

No. 5399 Each.....$9.85

NEW HAVEN CLOCK CO.'S FINE METAL NOVELTY CLOCKS

HEAVY BRASS CASES. ALL ONE-DAY TIME. PRICES EACH. PORCELAIN DIALS.

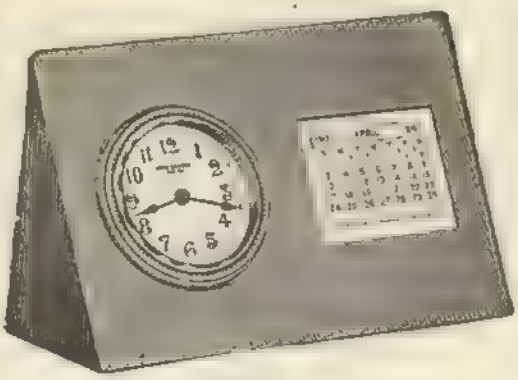
RICH ORMOLU GOLD PLATED CASES.



FALLIS

Rich Ormolu Gold Plate Finish, One-Day Time, 2-inch Porcelain Dial. Height, 6 inches. Width, 4½ inches.

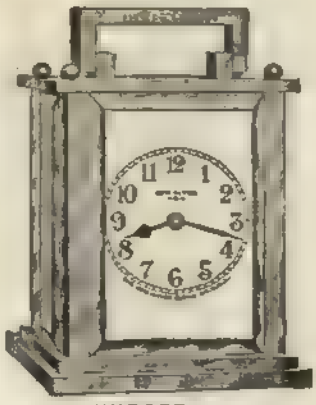
No. 5378 Each $7.35



DATEO

Heavy Brass Case, with Calendar Hea[illegible], Old Brass finish One-Day Time, 2-inch Porcelain Dial Height 3½ inches. Width 5¼ inches

No. 5379 Each $5 80



NUGGET

Heavy Brass Case, One-Day Time, 1¼-inch Porcelain Dial, Height 3 inches. Width 2⅛ inches.

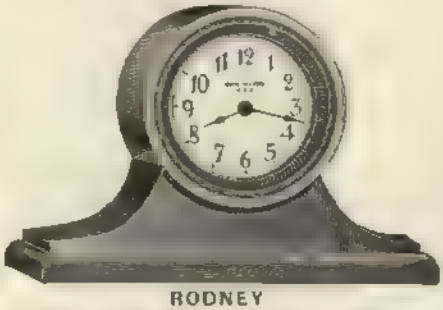
No. 5380 Each $8 [illegible]

ZARBINE

Old Brass Finish Case, One-Day Time or One-Day Intermittent Alarm Height, 3½ inches, Width 6⅝ inches. 2-inch Porcelain Dial

No. 5381 One-Day Time. Each $7 80

No. 5382 One-Day Intermittent Alarm. Each 9 80



RODNEY

Old Brass Finish Case, One-Day Time or One-Day Intermittent Alarm, Height 3¾ inches, width 5½-inches, 2-inch Porcelain Dial.

No. 5383 One-Day Time. Each..... $6.70

No. 5384 One-Day Intermittent Alarm. Each. $8 70

PADUA

Old Brass Finish Case, One-Day Time, or One-Day Intermittent Alarm. Height, 4 inches. Width, 3¼ inches. 2-inch Porcelain Dial.

No. 5385 One-Day Time. Ea.$5 35

No. 5386 One-Day Intermittent Alarm. Each... . $7 35

These Ormolu Gold Plated Clocks are plated exceptionally heavy. Will wear most satisfactory and serve as a reliable time keeper.

EBERLE

Rich Ormolu Gold Plate Finish Case. One-Day Time. 2 inch Porcelain Dial. Height, 7¾ inches. Width, 4½ inches.

No. 5387 Each $6 75

NATHALIA

Rich Ormolu Gold Plate Finish Case. One-Day Time. 2 inch Porcelain Dial. Height, 5½ inches. Width, 3½ inches.

No. 5388 Each $3 70

NASHOBA

Rich Ormolu Gold Plate Finish Case. One-Day Time. 2 inch Porcelain Dial. Height, 7 inches. Width, 4½ inches.

No. 5389 Each.. ..... $4 15

SPECIAL POCKET KNIFE CASE

ALL GLASS—The only visible woodwork in this case is the golden oak edge at the bottom and the strip around the glass in the door.

DIMENSIONS—8 inches high, 11 inches wide and 25 inches long. Polished plate glass top, front and ends. Double strength glass in door, which is hinged with brass spring hinges.

BBB Cases are marked on the top with "BBB" trademark.

Ulster Cases are marked on front with Ulster trademark.

Each case holds 18 plush top display boxes.

B35 BBB Case Assortment consists of the following:

One only BBB plate glass show case. Eighteen only BBB plush top knife boxes. One-quarter dozen each of the following pocket knives.

B01873	B093	B0299	B811	B0250	B32337	B3281	B3571	B35111
B3821	B3311	B3416	B3381	B3380	B3378	B3266	B3576	B903

U35 Ulster Case Assortment consists of the following:

One only Ulster plate glass show case. Eighteen Ulster plush top knife boxes. One-quarter dozen each of eighteen numbers of pocket knives the same patterns as in the B35 Assortment.

No. B35.....Per assortment $60.00 **No. U35**.....Per assortment 60.00

Weight complete about 50 pounds

SPECIAL RAZOR CASE

Golden oak finished frame, plate glass hinged top with lock, green plush lined tray spaced to sample 24 razors, provided with rubber bumpers on bottom to prevent marring top of floor case. Will increase razor sales, has the advantage of getting the goods in line with the customer's vision. Size, length 20 inches, width 7 inches, height 6½ inches.

No. 24R—Case only.....$8.00

Weight about 30 pounds

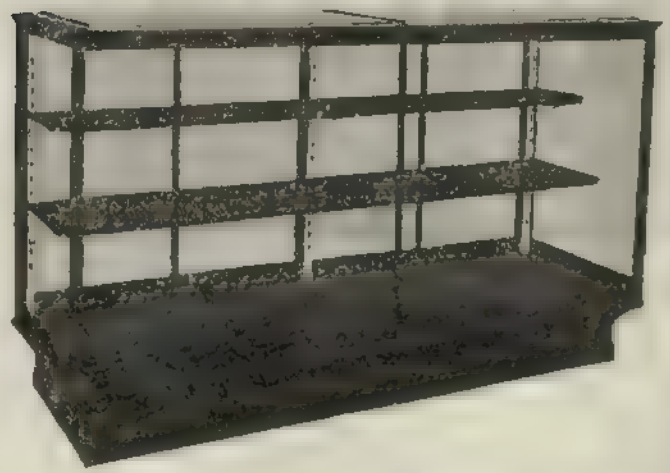
SHOW CASES

COUNTER CASES

Framework oak, polished finish, sliding mirror doors, double strength glass top, front and sides. Height 14½ inches, width 26 inches.

No. 10—Length, feet	3	4	5
Each	$10 00	12.50	15.00
No. 10—Length, feet	6	8	10
Each	$17.00	22 00	30 00

FLOOR CASES



Framework—Quarter-sawed white oak, golden oak finish, hand rubbed and polished.

Dimensions—42 inches high, 24 inches wide, any length 4 to 10 feet inclusive. Top glass heavy beveled plate laid in flush on green felt lining. Front and ends are best quality double strength glass. Four feet cases have one light in top and front, all other lengths up to 10 feet have two lights in top and front. Sliding glass doors on ball bearing rollers and steel track. For mirror doors see extras below. Fitted with two shelves, one 10 inch and one 14 inch, polished wood, or cloth covered if desired, on adjustable nickel plated brackets. For glass shelves see extras below.

No. 4—Receding oak base, 8 in. high

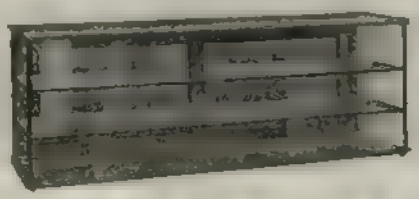
Length, feet	4	5	6	8	10
Weight about, lbs.	180	225	270	360	450
Each	$38 80	48.00	54 00	72 00	90.00

Shipped Knock Down, Unless Otherwise Specified

SET-ON TOP CASES

Fitted with one plate glass shelf, two sliding clear glass doors. Height 12 inches. Width 11 inches.

No. 200—Length, inches	18	24	30	36
Each	$8 00	11 00	13 60	15 00
No. 200—Length, inches	42	48	60	
Each	$17 00	20.00	25 00	



Fitted with two plate glass shelves, two sliding clear glass doors. Height 12 inches. Width 11 inches

No. 201—Length, inches	18	24	30	36
Each	$9 00	12 60	15.60	17 40
No. 201—Length, inches	42	48	60	
Each	$20 80	23.20	29 00	

Fitted with two plate glass shelves hinged clear glass door. Height 19½ inches. Width 9½ inches. Length 11½ inches

No. 211.....Each $6 00

No. 211

Set-on-Top cases are constructed entirely of polished plate glass, with cemented joints. Fitted with plate glass shelves full length and width of case. Provided with rubber bumpers on bottom to prevent marring top of floor case. Set-on-Top cases will increase sales, has the advantage of getting goods right in line with the customers vision. Is a desirable case for all kinds of cutlery and small hardware

FLOOR CASE EXTRAS

Mirror Doors—For American mirrors add 45 cents net per foot of case. For German plate mirrors add $1 50 net per foot of case.

Glass Shelves—For ribbed plate shelves with ground edges, add 50 cents net per foot. For polished plate shelves with plain cut edges, add $1 00 net per foot. For polished plate shelves with ground edges, add $1 25 net per foot. For polished plate shelves with polished edges add $1.50 net per foot. These prices are for one 10 inch, and one 14 inch shelf.

Electric Lights—Any of our floor cases can be wired for electric lighting at $3 00 per light additional. No case wired for less than two lights. Includes switch, nickel plated reflectors, and all wiring ready to connect with your city service.

Special Finishes—All our prices are based on quarter-sawed oak framework but we can furnish genuine mahogany, or birch finished in imitation mahogany or cherry. Prices quoted on application.

—yes, some twenty years ago

Twenty years ago, we made a big lot of Enameled Iron Street Signs for the City of Baltimore, but we haven't sold the City many since—only because

THE TOWN HASN'T NEEDED THEM

The signs we sold them twenty years ago are still doing business—that's the economy of "BALTO" Guaranteed Porcelain Enameled Iron Municipal Signs.

That's the proof that there is no "just-as-good."

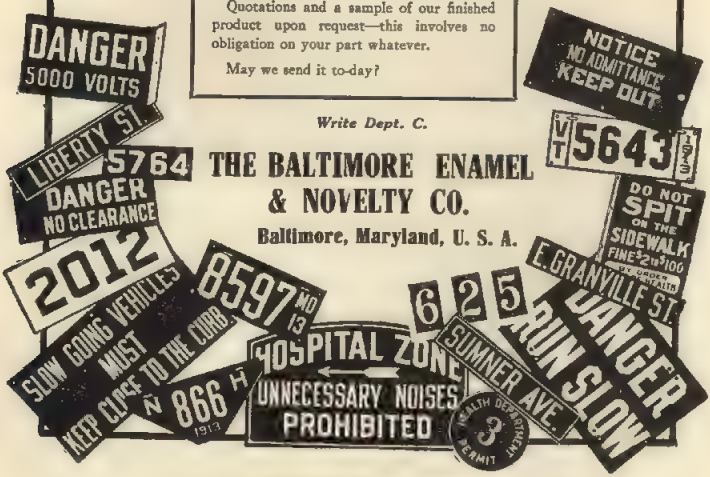
If you can afford to experiment with low prices (?) you're fortunate, but the taxpayer pays the freight. Our product is the one absolutely dependable out-of-door municipal sign on the market, and we can prove it if given half a chance.

GIVE US THE CHANCE TODAY

Quotations and a sample of our finished product upon request—this involves no obligation on your part whatever.

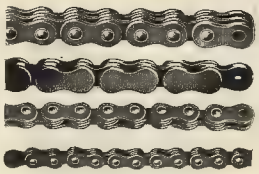
May we send it to-day?

Write Dept. C.



THE BALTIMORE ENAMEL & NOVELTY CO.

Baltimore, Maryland, U. S. A.



CABLE CHAINS

STRONG CHAINS

STEEL, BRASS, COPPER

The high grade stock used insures **strength.** The Automatic Machines insure **uniformity.** The spun rivet heads insure a **smooth** finish—no interfering when chains are hung side by side.

The capacity, 30 miles of S & B. Chains per day is the result of supplying chain which **meets the most exacting requirements.**

The catalog shows all kinds. Get it

THE SMITH & EGGE MFG. CO.
BRIDGEPORT, CONN., U. S. A.

BARCALO "S" WRENCH

The Wrench and The Parts

This wrench will operate in many places where a straight handle or monkey wrench will not go.

Note how few the parts and how simple. The drop-forged movable jaw, the adjusting pin, screw and nut are all guaranteed strong and perfect in workmanship. These parts are interchangeable.

Engineers machinists and garage repair men are all possible customers.

Sizes 6, 8, 10, 12 and 14 inch. Write for catalog and prices.

Barcalo Mfg. Company, **Buffalo, New York**

RELIABILITY and accuracy, superiority of material and workmanship, are characteristics which have distinguished our Measuring Tapes for years.

One of the many features of excellence is our method of numbering—"Ready Reading." It enables the user quickly and accurately to read our tapes.

Send for Tape Catalogue and discounts.

KEUFFEL & ESSER Co.

No Contagion is more sure than your own belief that you can turn out high grade merchandise. Put that belief into your advertisement in *Hardware Age*, and our readers will not fail to "catch" it. Right there is the beginning of business for you.

HARDWARE AGE
239 West 39th St., New York City

HELLER'S

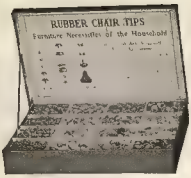
Famous Sectional Cabinets for Automobile Supplies, etc.

Also

Hardware Shelving

Send for Catalog No. 35

W. C. Heller & Co.
Montpelier, Ohio



Rubber Chair Tips

of six different styles and sixteen different sizes in a neat showcase display box. They prevent injury to the floors and muffle noise without leaving a mark.

Our Catalogue shows our complete line of rubber specialties with prices. Send for it.

Elastic Tip Co.
370 Atlantic Ave. Boston

Cobbler Sets

Eco nomi...l

Shoes Lasts and Stands

Empire

Heel Plates

No. 4

Why Not?

This is the time to consider Cobbler Sets, Shoe Lasts and Stands and Heel Plates.

We happen to have *The Best* in the country.

All good sellers that bring repeat orders.

Comparison is the only proof, and all we ask.

One shipment will insure more of the same kind. Try it.

Ask for Catalog 15

Star Heel Plate Co.
Louis Szoke, Prop.
Newark, N. J., U. S. A.

CLARK'S

Rubber Wheeled Casters

Made in all types and sizes for every caster purpose.

Swivel Stem Casters for use on platform trucks, boxes, baskets, etc. Made in two weights.

Stationary Plate Casters for mounting trucks and factory baskets.

Anti-Friction Swivel Socket Casters for use on table legs. Provided with hardened steel balls; round or square sockets.

Send for Bulletin A. C. 19. It illustrates and describes our complete line.

The George P. Clark Co.
Windsor Locks, Conn.

Manufacturers of all kinds of Trucks and Casters

BASE BALL BATS

PROFESSIONAL LEAGUE

Made of second growth ash, straight grain, 32 to 36 in. long, hand turned, flame burnt shellac finish, highly polished, transfer, made in twelve models, assorted weights.

No. 19—Professional League.....Per dozen $15.50

Three Dozen in a Crate, Assorted Weights, Lengths and Models

Made of second growth ash, straight grain, 32 to 36 in. long, hand turned, natural finish, highly shellac polished, made in twelve models, transfer, assorted weights, tape-wound handles.

No. 18—Professional League, taped.....Per dozen $15.50

Three Dozen in a Crate, Assorted Weights, Lengths and Models

Made of second growth white ash, 32 to 36 in. long, natural shellac finish, highly polished, transfer, branded "Safe Hit"

No. 15—Safe Hit.....Per dozen $12.00

Three Dozen in a Crate, Assorted Weights, Lengths and Models

LEAGUE

Made of second growth ash, 32 to 35 in. long, new golden finish, highly polished, with transfer.

No. 12—King of the Field.....Per dozen $8.00

Three Dozen in a Crate Assorted Weights, Lengths and Models

JUNIOR LEAGUE

Youth's bat, made of ash, 32 in. long, flame burnt, highly polished

No. 4—Junior League.....Per dozen $4.00

Six Dozen in a Crate

Boy's bat, made of good ash, 30 in. long, flame burnt, polished

No. 2—Knoxall.....Per dozen $2.40

Six Dozen in a Crate

Boy's bat, made of ash, 30 in. long, green stain, red bands, black stripes highly polished

No. 2—Crackerjack.....Per dozen $1.60

Six Dozen in a Crate

INDOOR

Made of ash, 33 in. long, flame burnt, polished, taped handle

No. 52—Indoor.....Per dozen $4.50

Three Dozen in a Crate

LOUISVILLE SLUGGER

Kork Grip Handle

Made from selected ash timber, hand turned, perfectly balanced Lengths 32 to 36 inches.

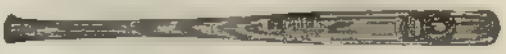
No. 40K.....Per dozen $18.00

LOUISVILLE SLUGGER

Oil Tempered

Made from choicest select second growth ash, straight grain, hand turned, special selection of assorted models from leading players, and has our new hand cured oil tempered "Trade Mark" finish, which gives the wood a hard surface and great driving power. Lengths 32 to 36 inches.

No. 125.....Per dozen $12.00



Ty Cobb Model

Made from the choicest second growth ash, straight grain, hand turned. An exact duplicate as used by the great Ty Cobb. Has a flame burnt highly polished surface. Lengths 33 to 36 inches.

No. 40TC.....Per dozen $12.00

Ty Cobb, Junior

Same as No. 40TC, only junior size. Length 33 inches.

No. 40TCJ.....Per dozen $6.00

Hans Wagner Model

Made from the choicest timber, hand turned, golden mottled finish. It is an exact duplicate of the model used by the mighty Wagner in establishing his wonderful batting record, and is used by many of the stars in the National League. Has more hitting surface than the average bat, medium size handle and well balanced. Lengths 32 to 36 inches.

No. 40W.....Per dozen $12.00

Frank "Goodnight" Baker Model

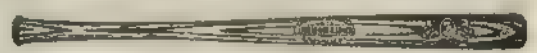
An exact duplicate of the bat used by the terrific slugging Baker in the world's championship games, made from selected second growth ash, golden mottled finish, hand turned. Lengths 33, 34 and 35 inches.

No. 40FB.....Per dozen $12.00

Eddie Collins Model

This bat is made from the choicest stock and from the model of Eddie Collins, famous player of Philadelphia Athletics, with our golden mottled finish. Lengths 34, 33 and 35 inches.

No. 40EC.....Per dozen $12.00



Tris Speaker Model

Made of the finest quality, second growth ash, straight-grain, hand turned and from the model of Tris Speaker, the hard-hitting outfielder of the Boston, American League, world's champion team, golden mottled finish. Lengths 33 to 35 inches.

No. 40TS.....Per dozen $12.00

Burnished Finish

Made from second growth ash, straight-grain, hand turned, with burnished finish, which gives it a hard driving surface, tape wound handle, with out new transfer, made in assorted models from leading players. Lengths 32 to 36 inches.

No. 40B.....Per dozen $12.00

Natural Finish

Made from choice second growth stock, hand turned, from leading players' models, natural finish, highly polished. Lengths 32 to 36 inches

No. 40.....Per dozen $12.00

All Louisville Slugger Bats are put up Twelfth Dozen in a Paper Bag, Three Dozen in a Crate

FOOT BALL GOODS

FOOT-BALLS

Made of specially selected Reach "Tuf-lde," the perfect foot-ball leather—a guaranteed pebble grain foot-ball leather. Only the very best selection is used, insuring a perfect shape ball. Each ball is packed in a box and sealed, complete with a pure Para rubber bladder, rawhide lace and lacing needle Each ball is carefully inspected and is guaranteed to conform strictly to the official rules and to give absolute satisfaction. No expense spared to make it the finest on the market

No. E5—Official Varsity.....Each $7.00
One in a Box

Made of selected pebble grain cowhide leather. A type of the perfect foot-ball, true in all its proportions, perfectly symmetrical. Put up complete with pure Para rubber bladder, lacing needle and leather lace

No. 5—Inter-Collegiate .....Each $5.50
One in a Box

Made of superior pebble grain cowhide leather, lined with best canvas, guaranteed perfect shape. Put up complete with pure Para rubber bladder, lacing needle and leather lace. Regulation size.

No. 5R—Rugby-Match .....Each $4.50
One in a Box

Made of American pebble grain cowhide leather. Put up complete with pure Para rubber bladder, lacing needle and leather lace.

No. 5F—Scholastic Rugby.. . .Each $4.00
One in a Box

FOOT-BALLS

Made of selected pebble grain leather, lined with best canvas, guaranteed perfect shape. Put up complete with pure Para rubber bladder, leather lace. Regulation size.

No. 5H—Special Rugby.....Each $3.50
One in a Box

Made of the finest pebble grain leather, canvas lined and guaranteed to hold its shape. Complete with pure Para rubber bladder. Regulation size.

No. 5S—Amateur Rugby ..... .Each $3.00
One in a Box

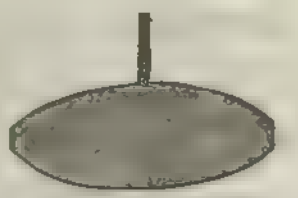
Made of high grade imitation leather, canvas lined. Complete with pure para rubber bladder

No. 100—Practice Rugby. . ....Each $2.00
One in a Box

Made of heavy close woven canvas. Will stand hard usage. Complete with pure para rubber bladder.

No. RC—Youth's Rugby... ..Each $1.70
One in a Box

FOOT-BALL BLADDERS

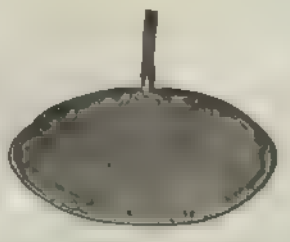


Pure Para rubber, four piece, for No. E5 foot-ball

No. E5—Bladders .....Per dozen $16.80
Twelfth Dozen in a Box

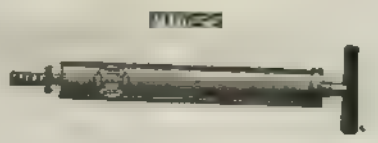
Pure Para rubber for foot-balls Nos. 5, 5R and 5C.

No. 5R—Bladders.....Per dozen $15.00
Twelfth Dozen in an Envelope



Pure Para rubber, two-piece, for foot-balls Nos. 5F, 5H and 5S.

No. 5S—Bladders .....Per dozen $12.00
Twelfth Dozen in a Box



Club Size

Used for inflating basket balls, foot balls, striking bags, etc

No. 2 .. . . Per dozen $11.50
One Dozen in a Box

Pocket Size

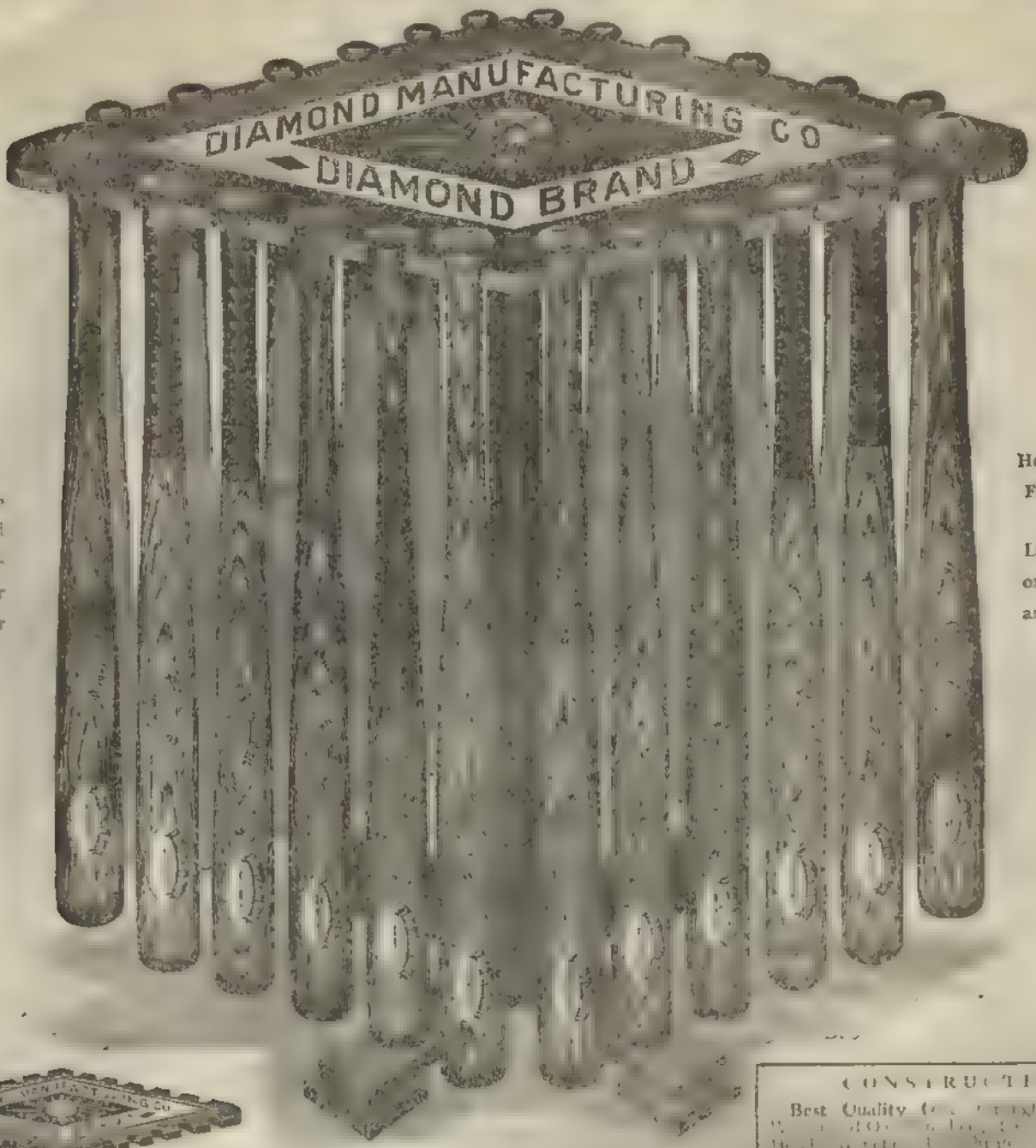
Used for same purpose as No. 2, only smaller size

No. 1 .....Per dozen $4.70
One Dozen in a Box

BAT RACKS

*DIAMOND

Given Free of Charge with each Order for Four (4) Dozen Bingler Bats or may be Purchased Separately



Weight of Bats is so distributed that it is impossible for Rack to Tip over

Holds Twenty-Four Bats

Diamond Sign on Top in Red and Black.

Cut shows Rack set up ready to receive Bats.

NOTE

This Bat Rack will be Sold separately or will be given **Free of Charge** with each Order for **Four Dozen** of our Bingler Bats. Bats may be of all One Number or Assorted to suit Purchaser, the only restriction being they must all be Binglers and on Single Orders of not less than Four (4) Dozen.

CONSTRUCTION

Best Quality [illegible] Dark [illegible] shaped and [illegible] Material, Base and [illegible] iced Oak; Top and Base easily and quickly fastened to Upright

Cut shows Rack Knocked Down and Burlap Wrapped for Shipment; Weight 15 lbs.

When Ordering, specify Quantity and Numbers of Bats wanted [illegible] Order Blank below.

One only No. BBR Diamond Bat Rack. XXX

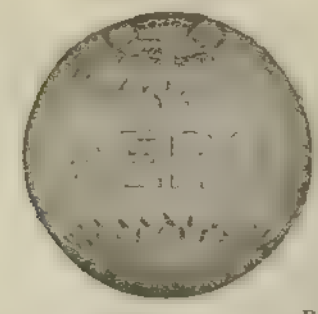
No. BBR—Bingler Bat Rack only without Bats; Weight 15 lbs. .... Each $5.50

One in a Burlap Bundle, Knocked Down

BASE BALLS

REACH

Per Dozen
No. R11—Champion; Sightly Below Regulation Size, Waterproof Cover $1.68
One Dozen in a Box
Weight per Dozen 4⅗ lbs.

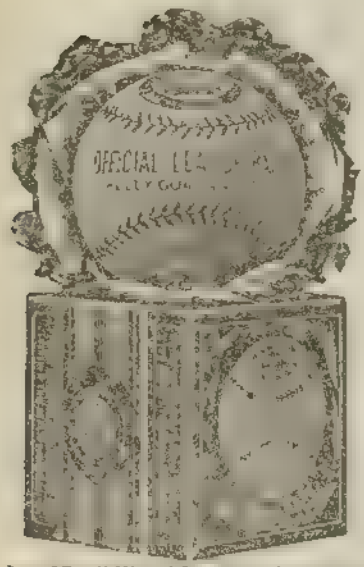


Per Dozen
No. R11B—Aero; a Good Red Ball at the Price; Red Waterproof Cover; Linen Stitched $1 60
One in a Sealed Carton. One Dozen in a Box
Weight per Dozen 3⅘ lbs.

Per Dozen
No. R12—Bounder; a Good Lively Ball; Size 9 inches, Weight 4 ozs. Waterproof Cover $0 90
One Dozen in a Box
Weight per dozen 3⅗ lbs.

GOLDSMITH OFFICIAL LEAGUE BALL

The Original Eighteen inning Guaranteed League Ball



Is guaranteed to conform to the requirements and specifications of The National and American Leagues, and is official for use in any game played under The National Agreement Rules.

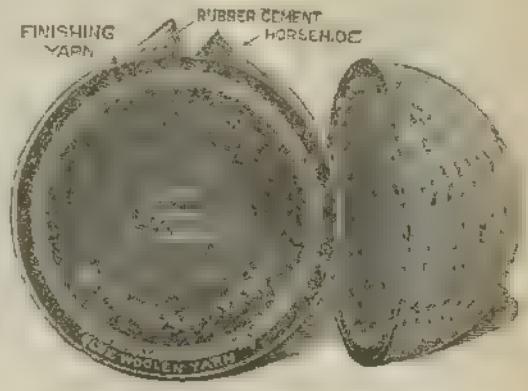
The rubber center imparts a liveliness unequalled by any other center. The finest pure wool yarn and specially tanned horsehide combined with our double needle lock-stitch linen thread hand stitching and scientific manufacture, enable us to guarantee it for **Eighteen Innings** against ripping, softening, losing its shape or elasticity.

Each ball is wrapped in tissue paper and tinfoil, packed in a separate box, and sealed according to league regulations.

Adopted and used as their Official Ball by

Pacific Coast League	**Western League**
Texas League	**Wisconsin-Illinois League**
Union Association	**Iowa State League**
Ohio State League	**Northern Base Ball League**
Western Tri-State League	**Western Association**
Ohio & Penn. League	**Blue Grass League**
Southern Michigan League	**Kansas State League**
M. I. N. K. League	**Southern Cal. League**
Missouri Trolley League	**K. I. O. League**
Mountain State League	**Empire State League**
N. E. Arkansas League	**Cal. Mid-Winter League**

And by a host of Minor, Amateur City Leagues, and Colleges and Universities.



Per Dozen
No. 97—Official League, Regulation Size and Weight, 5 ozs. Inches. Balls Guaranteed $21.60
One in a Sealed Carton; One Dozen in a Box. Weight per Dozen 4⅘ lbs.

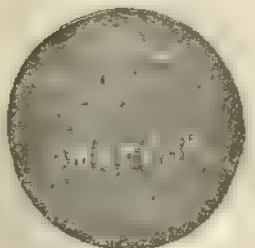
CORK BALLS

★DIAMOND BRAND

PROFESSIONAL

Covered with White Horsehide

Per Dozen
No. ACB25—1⅜ inches Diameter; Weight per Dozen 1¼ lbs... **$4 80**
One Dozen in a Box



★DIAMOND BRAND

AMATEUR

Plugged and Paraffined

Per Dozen
No. ACB10—1⅜ inches Diameter; Weight per Dozen ⅞ lb. $1 50

No. ACB15—1¾ inches Diameter; Weight per Dozen ½ lb..... **2 40**
Three Dozen in a Box

RUBBER BALLS

SOLID

Pure Para Rubber

Nos.	S15	S30
Diameter, Inches	1¾	2¼
Weight per Dozen, Lbs	1⅗	3⅗
Per Dozen	$0 90	2.00

One Dozen in a Box

HOLLOW

Pure Para Rubber

Nos.	H15	H30
Diameter, Inches	1¾	2¼
Weight per Dozen, Lbs.	⅝	1¼
Per Dozen	$1 00	2 00

One Dozen in a Box

INFLATED

Pure Para Rubber

Nos.	110	130
Diameter, Inches	1¾	2¼
Weight per Dozen, Lbs	⅝	1⅛
Per Dozen	$1 10	2 00

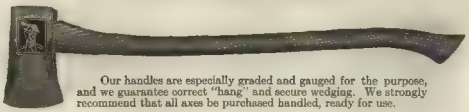
One Dozen in a Box

HANDLED AXES.

BATTLE AXE.

THE AXES DESCRIBED ON PRECEDING PAGE ARE LISTED BELOW, HANDLED WITH APPROPRIATE STYLES AND GRADES OF HANDLES.

For complete description of the handles used in these axes, see page 94.



Our handles are especially graded and gauged for the purpose, and we guarantee correct "hang" and secure wedging. We strongly recommend that all axes be purchased handled, ready for use.

SINGLE BIT.

	Per Dozen 3½ lbs. or 3-4 lbs. Asst.	Per Dozen 4 lbs. or 3½-4½ lbs. Asst. or 3½-4½ lbs. Asst.	Per Dozen Assorted 4-5 lbs.
No. 35GES—No. 20 Axe with No. GES Gilt Edge oval selected hickory handle	$43.48	43.98	44.48
No. 37GES—No. 22 Axe with No. GES Gilt Edge oval selected hickory handle	43.48	43.98	
No. 35RS—No. 20 Axe with No. RS Riverside oval selected hickory handle	39.06	39.56	40.06
No. 37RS—No. 22 Axe with No. RS Riverside oval selected hickory handle	39.06	39.56	
No. 3588S—No. 20 Axe with No. 88S Riverside oval flexible oak handle	38.60	39.10	39.60
No. 3788S—No. 22 Axe with No. 88S Riverside oval flexible oak handle	38.60	39.10	
No. 3555S—No. 20 Axe with No. 55S Riverside oval flexible oak handle	36.52	37.02	37.52
No. 3755S—No. 22 Axe with No. 55S Riverside oval flexible oak handle	36.52	37.02	
No. 35GEL—No. 20 Axe with No. GEL Gilt Edge Lbrm's selected hickory handle	43.48	43.98	44.48
No. 37GEL—No. 22 Axe with No. GEL Gilt Edge Lbrm's selected hickory handle	43.48	43.98	
No. 35RL—No. 20 Axe with No. RL Riverside Lbrm's selected hickory handle	39.06	39.56	40.06
No. 37RL—No 22 Axe with No. RL Riverside Lbrm's selected hickory handle	39.06	39.56	
No. 3588L—No. 20 Axe with No. 88L Riverside Lbrm's flexible oak handle	38.60	39.10	38.60
No. 3788L—No. 22 Axe with No. 88L Riverside Lbrm's flexible oak handle	38.60	39.10	
No. 3555L—No. 20 Axe with No. 55L Riverside Lbrm's flexible oak handle	36.52	37.02	37.52
No. 3755L—No. 22 Axe with No. 55L Riverside Lbrm's flexible oak handle	36.52	37.02	
No. 35XLCRS—No. 20 Axe with No. XLCRS turned hickory handle	39.68	40.18	40.68
No. 37XLCRS—No. 22 Axe with No. XLCRS turned hickory handle	39.68	40.18	
No. 351H—No. 20 Axe with No. 1H turned hickory handle	37.86	38.36	38.86
No. 371H—No. 22 Axe with No. 1H turned hickory handle	37.86	38.36	
No. 352H—No. 20 Axe with No. 2H turned hickory handle	36.46	36.96	37.46
No. 372H—No. 22 Axe with No. 2H turned hickory handle	36.46	36.96	
No. 35DA—No. 20 Axe with No. DA Diamond A turned hickory handle	37.42	37.92	38.42
No. 37DA—No. 22 Axe with No. DA Diamond A turned hickory handle	37.42	37.92	

DOUBLE BIT.

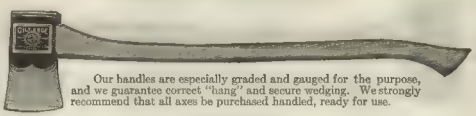
	Per Dozen Assorted 3-4 lbs.	Per Dozen Assorted 3½-4½ lbs. or 3½-4½ lbs.	Per Dozen Assorted 4-5 lbs.
No. 96GED—No. 26 Axe with No. GED Gilt Edge selected hickory handle	$52.48	52.98	53.48
No. 97GED—No. 27 Axe with No. GED Gilt Edge selected hickory handle	52.48	52.98	53.48
No. 96RD—No. 26 Axe with No RD Riverside selected hickory handle	48.06	48.56	49.06
No. 97RD—No. 27 Axe with No RD Riverside selected hickory handle	48.06	48.56	49.06
No. 9688D—No. 26 Axe with No. 88D flexible oak handle	47.60	48.10	48.60
No. 9788D—No. 27 Axe with No. 88D flexible oak handle	47.60	48.10	48.60
No. 9655D—No. 26 Axe with No. 55D flexible oak handle	45.52	46.02	46.52
No. 9755D—No. 27 Axe with No. 55D flexible oak handle	45.52	46.02	46.52
No. 961D—No. 26 Axe with No. 1D flexible oak handle	46.86	47.36	47.86
No. 971D—No. 27 Axe with No. 1D flexible oak handle	46.86	47.36	47.86

HANDLED AXES.

+ GILT EDGE AND RIVERSIDE.

THE AXES DESCRIBED ON PRECEDING PAGE ARE LISTED BELOW, HANDLED WITH APPROPRIATE STYLES AND GRADES OF HANDLES.

For complete description of the handles used in these axes, see page 94.



Our handles are especially graded and gauged for the purpose, and we guarantee correct "hang" and secure wedging. We strongly recommend that all axes be purchased handled, ready for use.

SINGLE BIT.

	Per Dozen 4 lbs. or 3½ lbs. or 3-4 lbs. Asst.	3¼-4¼ lbs. Asst. or 3½-4½ lbs. Asst.	Assorted 4-5 lbs.
No. 30GES—No 30 Axe with No. GES Gilt Edge oval selected hickory handle	$43.48	43.98	44.48
No. 30GEL—No. 30 Axe with No. GEL Gilt Edge Lbrm's selected hickory handle.	43.48	43.98	44.48
No. 47GES—No 47 Axe with No GES Gilt Edge oval selected hickory handle	44.98	45.48	45.98
No. 47GEL—No. 47 Axe with No. GEL Gilt Edge Lbrm's selected hickory handle	44.98	45.48	45.98
No. 30RS—No. 30 Axe with No. RS Riverside oval selected hickory handle	39.06	39.56	40.06
No. 30RL—No. 30 Axe with No. RL Riverside Lbrm's selected hickory handle	39.06	39.56	40.06
No. 47RS—No. 47 Axe with No. RS Riverside oval selected hickory handle	40.56	41.06	41.56
No. 47RL No. 47 Axe with No. RL Riverside Lbrm's selected hickory handle	40.56	41.06	41.56
No. 3088S—No. 30 Axe with No. 88S Riverside oval flexible oak handle	38.60	39.10	39.60
No. 3088L No. 30 Axe with No. 88L Riverside Lbrm's flexible oak handle	38.60	39.10	39.60
No. 4788S—No 47 Axe with No 88S Riverside oval flexible oak handle	40.10	40.60	41.10
No. 4788L—No. 47 Axe with No. 88L Riverside Lbrm's flexible oak handle	40.10	40.60	41.10
No. 3055S—No. 30 Axe with No. 55S Riverside oval flexible oak handle	36.52	37.02	37.52
No. 3055L—No. 30 Axe with No. 55L Riverside Lbrm's flexible oak handle	36.52	37.02	37.52
No. 4755S—No 47 Axe with No 55S Riverside oval flexible oak handle	38.02	38.52	39.02
No. 4755L No. 47 Axe with No. 55L Riverside Lbrm's flexible oak handle	38.02	38.52	39.02
No. 301H—No. 30 Axe with No. 1H turned hickory handle	37.86	38.36	38.86
No. 471H—No. 47 Axe with No. 1H turned hickory handle	39.36	39.86	40.36
No. 302H—No. 30 Axe with No. 2H turned hickory handle	36.46	36.96	37.46
No. 472H—No. 47 Axe with No. 2H turned hickory handle	37.96	38.46	38.96
No. 30DA—No. 30 Axe with No. DA Diamond A turned hickory handle	37.42	37.92	38.42
No. 47DA—No. 47 Axe with No. DA Diamond A turned hickory handle	38.92	39.42	39.92

DOUBLE BIT.

	Per Dozen Assorted 3-4 lbs.	Assorted 3¼-4½ lbs. or 3½-4½ lbs.	Assorted 4-5 lbs
No. 36GED—No. 36 Axe with No. GED Gilt Edge selected hickory handle	$52.48	52.98	53.48
No. 77GED—No. 77 Axe with No GED Gilt Edge selected hickory handle	53.98	54.40	54.90
No. 36RD—No. 36 Axe with No. RD Riverside selected hickory handle	48.06	48.56	49.06
No. 77RD—No. 77 Axe with No RD Riverside selected hickory handle	49.56	50.06	50.56
No. 3688D—No. 36 Axe with No. 88D flexible oak handle	47.60	46.10	48.60
No. 7788D—No. 77 Axe with No. 88D flexible oak handle	49.10	49.60	50.10
No. 3655D—No. 36 Axe with No. 55D flexible oak handle	45.52	46.02	46.52
No. 7755D—No. 77 Axe with No. 55D flexible oak handle	47.02	47.52	48.02
No. 361HD—No. 36 Axe with No. 1HD turned hickory handle	46.86	47.36	47.86
No. 771HD—No. 77 Axe with No. 1HD turned hickory handle	48.36	48.86	49.36

✠ BICYCLE NAME PLATES

These Plates are made from the Best Grade Material and to Highest Class of Design. The Plating and Finishing are Unexcelled for the reason that our Appliances and Workmanship are set to the highest possible Standard of Excellence, Uniformity and Neatness.

FINISH:—Gold Plate; Silver Plate; Oxidized Silver; Bronzed and Shaded.

Style M
One of the latest Designs; very Neat and Attractive, looks well on any Bicycle.

Style L
Another New and Attractive Design; especially Attractive on a Short Head Machine.

Style E

Style E
A very Small Shield especially Attractive on a Short Head Bicycle.

Style N

Style N
A very Artistic Modeled Plate. One of our most Exclusive Patterns

Style J

Style J
Another New and Attractive Design that will look well in any Finish.

Style F

Style F
A very Artistic Plate with a beautiful Border of Modeled Open work Daisies.

Style A

Style A
Another Neat and Attractive Plate with Modeled Border and Raised Letters

Style G

Style G
A very Neat and Simple Design especially intended for Machines with a Long Head.

25 Plates	$10.50
50 Plates	25.00
100 Plates	33.00
200 Plates	48.00
300 Plates	64.00

Weight per 100 about 3½ lbs.

EXTRA FOR TWO-COLOR PLATING

100 Plates	$10.50

EXTRA FOR ENAMELED NAME

100 Plates	$2.50

SCREWS

	Per 100
No. 4—56 Thread	$0.70
No. 5—40 Thread	1.00

TAPS

	Each
No. T1	$0.90

DRILLS

	Each
No. D1 Loose	$0.30

Items Marked ✠ Not Carried In Stock; Can Only Be Furnished By Shipping Direct From Factory

BICYCLE CALLS

ECHO

Per Dozen

No. 69—Drawn Brass; Flat Mouth Piece; Nickeled and Polished; with Ring; Length 1¾ inches; Weight per Dozen 8 ozs..... **$4.00**

One Dozen in a Box

UNIVERSAL

Drawn Brass; Flat Mouth Piece; Nickeled and Polished; with Chain.

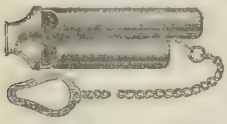
Per Dozen

No. U30—2¾ in.; Wt. per Dozen 7 ozs..... **$3 80**

No. U20—3 in.; Wt. per Dozen 8 ozs..... **4 00**

No. U10—3½ in.; Wt. per Dozen 9 ozs..... **4.80**

One Dozen in a Box

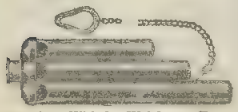


DUPLEX

Per Dozen

No. 60—Drawn Brass; Nickeled and Polished; with Chain; Length of Call 3½ inches; Weight per Dozen 14 ozs..... **$3.50**

One Dozen in a Box



Per Dozen

No. 75—Triplex; Drawn Brass; Nickel Plated and Polished; 15 inch Chain and Button Fastener Attached; Three Tubes, Length over all 6 inches; Makes a Sound Like a Steamboat Whistle; Weight per Dozen 1½ lbs..... **$7.00**

One Dozen in a Box

Per Dozen

No. 52—Drawn Brass; Flat Mouth Piece; Nickel Plated and Polished; Length Over All 2½ inches; 15 inch Chain with Button Loop; Weight per Dozen 8 ozs..... **$1.80**

No. 50—Bright Tin; Soldered; Length 2½ inches; Flat Mouth Piece; Without Chain; Weight per Dozen 4 ozs..... **1 00**

One Dozen in a Box

LIQUID PISTOLS

Per Dozen

Wizard—Substantially Made; No Danger of Leaking; Guard Trigger; Nickel Plated; Length 5 inches; Weight per Dozen 6 lbs..... **$6 00**

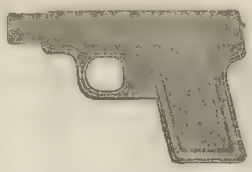
One in a Box;
One Dozen in a Carton

Per Dozen

No. USA—Durable, Reliable and Perfectly Safe; Guarded Trigger; Nickel Plated and Polished; Length 5¼ in; Weight per Doz. 4½ lbs..... **$6 00**

One in a Box;
One Dozen in a Carton

LIQUID PISTOLS



DAISY

Per Dozen

No. DWP—Made in exact replica of Colt Automatic Pistol; Made of Blue Stamped Steel; Durable and Reliable; Length 5¼ inches; Wt. per Dozen 6 lbs..... **$4 50**

One in a Box

DAISY REPEATER

Per Dozen

No. DR9—5 Shots. Made in Exact Appearance of Colts Automatic Pistol; Blue Stamped Steel, Durable and Attractive; Length 5½ inches; Weight per Dozen 5 lbs. **$9 00**

One in a Box

Per Dozen

No. 53—Nickel Plated and Polished Barrel; Rubber Bulb to Contain Liquid, Forms the Grip; Operated by Squeezing the Grip; Length 4½ in.; Weight per Dozen 2 lbs..... **$4 50**

One in a Box; One Dozen in a Carton

RUBBER BULBS

FOR LIQUID PISTOLS

Made of Best Quality Pure Black Rubber with Pure Rubber Tubes

SON OF A GUN

Per Dozen

No. 1B—Wt. per Dozen 14 ozs..... **$2 80**

Loose

U. S. A.

Per Dozen

No. UB—Weight per Dozen 12 ozs..... **$3.80**

Loose

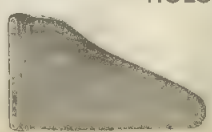
WIZARD

Per Dozen

No. WB—Weight per Dozen 8 ozs.... **$2.80**

Loose

HOLSTERS



Best Quality Soft, Pliable Black Rubber

Specially Adapted for Carrying any of the above Liquid Guns.

Without Clasps; to carry in Pocket.

Per Dozen

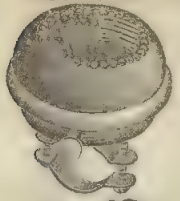
No. 1—3¼ inches Wide; 6 inches Long; Weight per Dozen 1 lb... **$6.00**

One Dozen in a Box

BICYCLE BELLS

* RUGBY

Rugby Bicycle Bells are Noted for their Clear, Loud Sounding Tones, are Heavily Nickel Plated; Packed in Attractive Packages.



Per Dozen

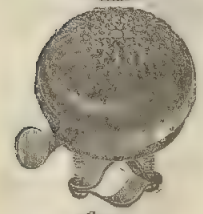
No. 413AF—2¼ Inch; Continuous Ringing Push Button Pattern; Bell Metal Gong; American Flag Enameled in Colors on Top; Nickel Plated; Adjustable Clamp; Weight per Dozen 4 lbs. **$12 00**

One Dozen in a Box

Per Dozen

No. 36—2¾ Inch; Continuous Ringing Cathedral Chime; Wrought Metal Gong, which Produces a Continuous Multi-toned Loud and Penetrating Ring; Nickel Plated; Adjustable Clamp; Mechanism Simple, Strong and Sure, Weight per Dozen 7½ lbs **$13 50**

One in a Box; Half Dozen in a Carton



Per Dozen

No. L3—2¼ Inch; Rotary Electric Stroke; Bell Metal Gong; Fancy Ornamental Top; Nickel Plated, Adjustable Clamp; Weight per Dozen, 4¼ lbs . . **$6 50**

Half Dozen in a Box

Per Dozen

No. 100—2½ Inch; Continuous Ringing Rotary Electric Chime; One Gong Bell Metal, One Steel; This Combination of Gongs Produces a Beautiful Tone Effect; Nickel Plated; Adjustable Clamp; Weight per Dozen, 6¾ lbs. **$10 50**

One in a Box; Half Dozen in a Carton

Per Dozen

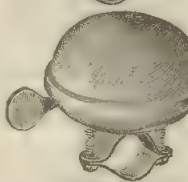
No. 15—2½ Inch; Double Stroke with Chime Effect; Steel Gong; Nickel Plate; Adjustable Clamp; Weight per Dozen 4½ lbs. . . **$5 70**

Half Dozen in a Box

Per Dozen

No. 42FT—2¼ Inch; Rotary Electric Stroke; Bell Metal Gong; American Flag Enameled in Colors on Top; Nickel Plated; Adjustable Clamp; Weight per Dozen 4 lbs. **$6.50**

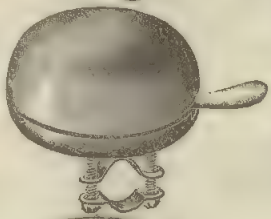
One Dozen in a Box



Per Dozen

No. 17—2¼ Inch; Rotary Electric Stroke; Steel Gong; Nickel Plated; Adjustable Clamp; Weight per Dozen 4½ lbs **$3 70**

One Dozen in a Box



Per Dozen

BRONKO—3 Inch; Double Stroke, Bell Metal Gong; Nickel Plated; Adjustable Clamp; Weight per Dozen 7¼ lbs. **$11 00**

Half Dozen in a Box

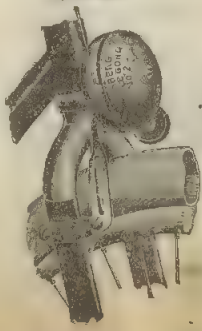
MOSSBERG

For Attaching to Handle Bar

Per Dozen

No. 10 — Cuckoo; Double Stroke, Toned to Resemble a Cuckoo's, Weight per Dozen 4½ lbs. **$7 40**

Twelfth Dozen in a Box



TIRE BELLS

MOSSBERG

Mossberg Bells Are Noted for Their Loud, Clear and Harmonious Tones, which are Due to the Specially Compounded Metal Used in the Gongs.

2¼ inch Nickel Plated Gongs; Complete with Clamps.

Per Dozen

No. 2 Gong Produces a Single, Clear and Full Sound; Packed in Individual Boxes; Weight per Dozen 6 lbs. **$16 00**

Twelfth Dozen in a Box

PLAYING CARDS

UNITED STATES PLAYING CARD CO.

CONGRESS

Sitting Bull Back

An Artistic Series of Pictorial and Club Backs in Rich Colors, Designed for Up-to-Date Card Parties Social and Home Play; Assorted Backs

Per Dozen

No. 806..... $11 00

Half Dozen Packs in a Box; Weight per Dozen 3½ lbs.

WHIST

Ivory Finish; Highly Enameled; Aluminum Finish Surface; Assorted Patterns and Colors.

Per Dozen

No. 133..... $7 00

One Dozen Packs in a Box; Weight per Dozen 2¾ lbs

BICYCLE

Tri-Tire Back

Ivory Finish, Highly Enameled; Bicycle and Other Popular Designs in Greatest Variety. Tested and Used in Card Playing Countries All Over the World; Assorted Backs.

Per Dozen

No. 808—..... $5 50

No. 119 Helmet..... 2 30

One Dozen Packs in a Box, Weight per Dozen 2¾ lbs

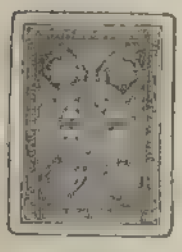
PINOCHLE—ACE

Enameled; 48 Cards (9 Spots Low), 7 and 8 Spots Excluded. Meld and Scroll and Other Backs in Red and Blue; Assorted Backs.

Per Dozen

No. 48..... $6.00

One Dozen Packs in a Box; Weight per Dozen 2½ lbs.



TOURISTS

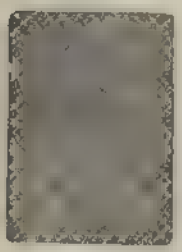
Daisy Back

Enameled, Hard Paper, Finished Set Pattern Margin Backs; Assorted Patterns and Colors.

Per Dozen

No. 155..... $4 50

One Dozen Packs in a Box; Weight per Dozen 2¾ lbs.



STEAMBOAT

Plaid Back

The Best Cheap Card Made. Round Corners, Assorted Two Color Plaid and Wave Backs

Per Dozen

No. 999..... $2 70

One Dozen Packs in a Box; Weight per Dozen 2⅝ lbs

LITTLE DUKE—ACE

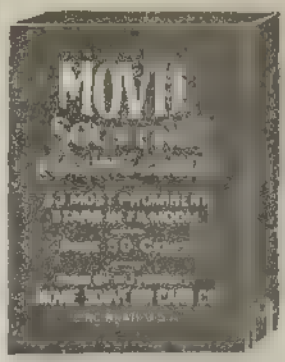
Small Size, 1¾ inches, Enameled. Artistic Faces of Dukes in Costume and for Patience Players, Assorted Backs in Red and Blue.

Per Dozen

No. 24..... $2.70

One Dozen Packs in a Box; Weight per Dozen 11 ozs.

PLAYING CARDS



A very Interesting Gallery of the Celebrities of the Motion Stage; The Faces Shown Are Actual Genuine Portraits of the World's Greatest Motion Picture Stars. The Back Design is a Reproduction of the Famous Painting, "Court Jester," by Frans Hals, Depicting a Scene at the Court of Louis XIV, Splendid Finish, and is Complete for Playing All Card Games

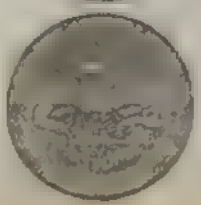
Packed in Beautiful Blue Box with Gold Lettering on One Side and Sample of Card on the Other Side.

GILT EDGES Per Dozen

No. MSC—Weight Per Dozen 4¾ lbs..... $9 00

One-half Dozen in a Box

POKER CHIPS



UNBREAKABLE

Extra Hard Paper Composition; Square Edges, Perfectly Noiseless, Stack Evenly

Per 1000

No. U—1⅜ inches..... $20 00

Weight per Box of 100, ⅞ lb.

Packed 100 in a Cardboard Box. Assorted, 50 White, 25 Red, 25 Blue.

PLAIN

Superior Quality Composition; Round Edges Practically Noiseless. Stack Evenly.

Per 1000

No. P—1½ inches..... $15 00

Weight per Box of 100, 1⅝ lbs.

Packed 100 in a Cardboard Box. Assorted, 50 White, 25 Red, 25 Blue.

EMBOSSED

Fine Quality Composition, Round Edges; Practically Noiseless, Raised Panel Border, Stack Evenly.

Per 1000

No. EM—Mascot; 1½ inches..... $18.20

Weight per Box of 100, 1⅝ lbs.

EMBOSSED

Fine Quality Composition, Round Edges; Practically Noiseless, Raised Panel Border, Stack Evenly.

Per 1000

No. ED Dragon; 1½ inches..... $19.20

Weight per Box of 100, 1⅝ lbs.

EMBOSSED

Fine Quality Composition, Round Edges, Practically Noiseless, Raised Panel Border, Stack Evenly.

Per 1000

No. ESM—Stop Monkeying; 1½ inches..... $19.20

Weight per Box of 100, 1⅝ lbs.

POKER CHIPS

ENGRAVED

Finest Quality Composition; Round Edges; Smooth Finish; Practically Noiseless; Deeply and Distinctly Engraved; Stack Evenly.

Per 1000

No ECW—Cap and Wip; 1½ inches . $24.00

Weight per Box of 100, 1⅔ lbs.

ENGRAVED

Finest Quality Composition; Round Edges; Smooth Finish; Practically Noiseless; Deeply and Distinctly Engraved; Stack Evenly.

Per 1000

No. EHS—Horse Shoe; 1½ inches.....$24.00

Weight per Box of 100, 1⅔ lbs.

ENGRAVED

Finest Quality Composition; Round Edges; Smooth Finish; Practically Noiseless; Deeply and Distinctly Engraved; Stack Evenly.

Per 1000

No. EOC—Owl and Crescent; 1⅔ inches..... $24 00

Weight per Box of 100, 1⅔ lbs.

PARANOID

Finest Quality Poker Chip Made; Round Edges, Very Quiet; Guaranteed to Stack Evenly; Practically Indestructible.

Per 1000

No. PEC—Carlo; Engraved, 1-9/16 inches; Weight per Box of 100, 1⅔ lbs.....$60.00

Packed 100 in a Cardboard Box. Assorted 50 White, 25 Red, 25 Blue.

PARANOID

Finest Quality Poker Chip Made; Round Edges, Very Quiet; Guaranteed to Stack Evenly; Practically Indestructible.

Per 1000

No. PDS—Double Star; Engraved; [illegible] Weight per Box of 100, 1⅔ lbs.....$60 00

Packed 100 in a Cardboard Box. Assorted 50 White, 25 Red, 25 Blue.

PARANOID

Finest Quality Poker Chip Made; Round Edges, Very Quiet; Guaranteed to Stack Evenly; Practically Indestructible.

Per 1000

No. PFL—Fleur de Lis; Inlaid; 1 9/16 [illegible] Weight per Box of 100, 1⅔ lbs.....$90.00

Packed 100 in a Cardboard Box. Assorted 50 White, [illegible] Blue

DICE

POKER

Per Dozen Sets

No. CPD— Celluloid; Cream Color; Five in a Set; ⅝ inch; Wt. Dozen Sets 1 lb. $15 00

No. VPD — Vegetable Ivory; Cream Color; Five in a Set; ⅝ inch, Wt. Dozen Sets 15 ozs. $8 00

One Set in a Box; One Dozen Sets in a Carton.

Transparent Celluloid

Square Corners; 9/16 inch Five in a Set.

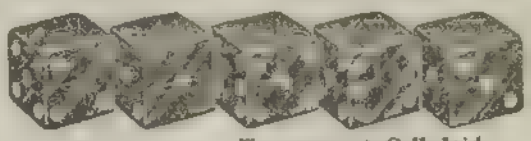
Per Dozen Sets

No. TCM⅝—Magenta Color, White Spots $15 00

No. TCG⅝—Green Color, White Spots 15 00

Weight per Dozen Sets ¾ lbs.

One Set in a Box; One Dozen Sets in a Carton



Transparent Celluloid

Round Corners; 9/16 inch Five in a Set

Per Dozen Sets

No. TCM⅝—Magenta Color, White Spots.....$18.00

No. TCG⅝—Green Color, White Spots..... 18.00

Weight per Dozen Sets 1⅛ lbs

One Set in a Box; One Dozen Sets in a Carton

Opaque Celluloid

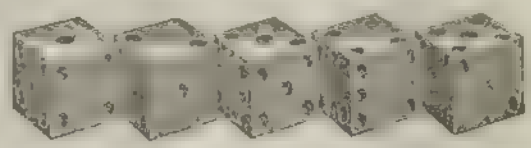
Round Corners; Five in a Set

Per Dozen Sets.

No. CDR⅝—⅝ inch, Cream Color, Black Spots $12.00

Weight per Dozen Sets ⅞ lb.

One Set in a Box; One Dozen Sets in a Carton



Opaque Celluloid

Square Corners; Five in a Set

Per Dozen Sets

No. CDS¾—¾ inch, Cream Color, Black Spots $12 00

No. CDS⅞—⅞ inch, Cream Color, Black Spots . 20 00

Weight per Dozen Sets 1¼ lbs.

One Set in a Box; One Dozen Sets in a Carton

BLANK DICE

Opaque Celluloid
Round Corners, Cream Color
(Five in a Set.)

One Set in a Box; One Dozen Sets in a Carton

Per Dozen Sets

No. CB½—½ in.; Weight per Dozen sets ⅝ lb $24 00

No. CB9 16—9/16 inch; Weight per Dozen Sets, ¾ lb. 24 00

No. CB⅝—⅝ inch; Weight per Dozen Sets 1 lb. 24 00

One Set in a Box; One Dozen Sets in a Carton

DICE CUPS

*DIAMOND BRAND

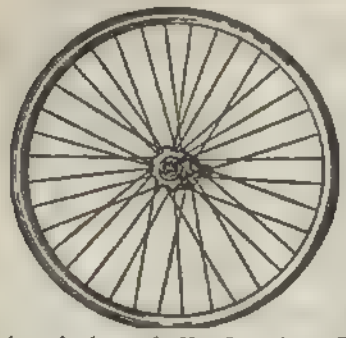
Best Quality Heavy Russet Sole Leather; Double Sewed with Waxed Linen Thread.

Nos	DC1	DC2	DC3⅝
Sizes, Inches	3¼x2	3¼x2½	3½x2
Weight per [illegible] Lbs ..	1⅝	2	2¾
Per Dozen....	$6.50	9.00	12.00

Loose.

BICYCLE ACCESSORIES

BUILT UP BICYCLE WHEELS

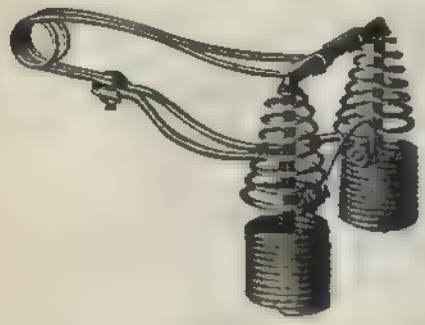


28 in. wheels, with No. 2 spokes. Rims black enameled with two gold stripes. Front wheels are furnished with spindle hubs, rear wheels with New Departure brake

Built Up

Front . . . . . Each $ 3.50
[redacted] . . . . . Each 10.00

SADDLE SPRINGS



Nickel plated, cushion comfort spring. Will fit any wood base saddle without using any longer bolts.

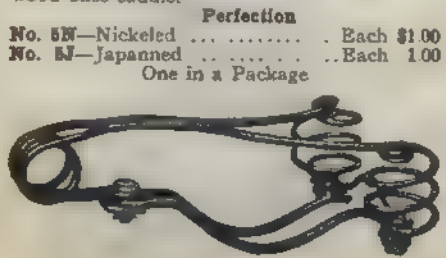
Cushion Comfort.

No. 4N. . . . . Each $1.20
One in a Package

Made from high-grade spring steel, fits any wood base saddle.

Perfection

No. 5N—Nickeled . . . . . Each $1.00
No. 5J—Japanned . . . . . Each 1.00
One in a Package



Adjustable to fit any saddle, nickel plated.

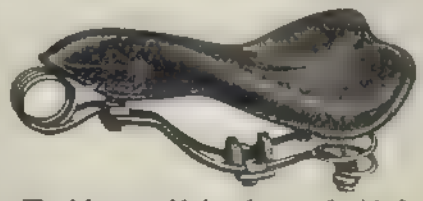
Universal

No. 1N. . . . . Each $0.50
One in a Package

BICYCLE SADDLES

Wood base, padded, covered with russet leather, 9x6½ inches, truss springs.

No. 320. . . . . Each $1.40
One in a Package



Wood base, padded and covered with first quality russet leather, high back pattern, equipped with Universal nickel plated truss springs. Length 10¼ in., width 8 in.

No. 315. . . . . Each $1.80
One in a Package

Skeleton steel frame, covered with extra quality brown leather, top 10¾x7¾ inches, fitted with nickel plated Universal truss springs.

No. 330. . . . . Each $2.80
One in a Package

Length 9½ in., width 7½ in.

Scout

No. 300. . . . . Each $2.20
One in a Package

Top is hair padded and formed to fit the shape over a 5 ply wood veneer base. A light strong saddle. Length 10½ in., width 8⅛ in.

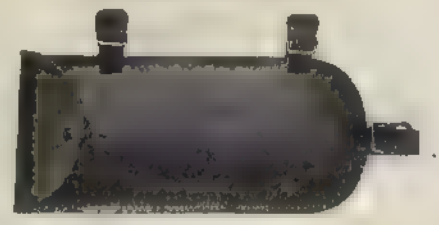
No. 350—Without tool bag. . . . . Each $4.00
No. 350TB—With No. 15-3 tool bag
Each 5.00
One in a Package

BICYCLE SADDLES

Improved design, highest quality possible to produce in a bicycle saddle. 10¾x8¾ in. A very easy saddle, steel frame covered with dark russet leather, fitted with new pattern springs, as in above cut.

No. 340. . . . . Each $5.00
One in a Package

BICYCLE TOOL BAGS

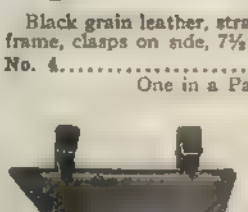


Russet split leather, straps to buckle around frame, clasp on end, 8x3¾x1 in.

No. 8. . . . . Each $0.50
One in a Package

Black grain leather, straps to buckle around frame, clasps on side, 7⅛x2½x1⅛ inches

No. 4. . . . . Each $0.90
One in a Package



Black grain leather, 9x9x9 in by 1⅛ in. thick. Straps to buckle around frame at top and back, side clasp on front side

No. 20. . . . . Each $0.90
One in a Package

Metal end, 7 in. long

No. 15-1—Heavy grain leather. . . . Each $0.80
No. 15-3—Elk grain leather . . . . . Each .80
One in a Package

BICYCLE ACCESSORIES

FRONT HUBS

Length over all, outside cones, 3 1/32 inches. Full nickel plated. Complete with ball bearings. 32 spoke holes.

No. 16.....Each $1.00

One in a Box

Made from high-grade steel, nickel plated and polished, complete with ball bearings.

Model M—Bicycle size, 3 1/4 inches long, with 32 spoke holes.....Each $1.00

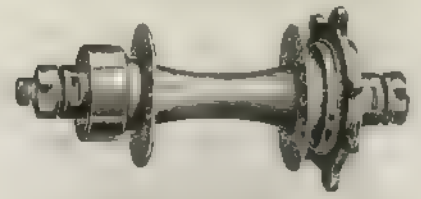
One in a Box

REAR HUBS

Length over all, outside of cones, 4 5/8 inches Sprocket 8 tooth, 5/16 inch thick, 1 inch pitch 36 spoke holes.

No. 26.....Each $1.75

One in a Box



Made throughout of steel, runs on ball bearings, and is highly finished in nickel plate. Sprocket 5/16 in., 1 in. pitch, 8 tooth Length over all, 4 5/8 in. 36 spoke holes.

Model R.....Each $1.75

One in a Box

COASTER BRAKE AND REAR HUB

Made from high-grade steel, polished and nickeled. Sprocket wheel 8 tooth, 5/16 in. thick, 1 in. pitch, 36 spoke holes. Length over all, 4 5/16 in.

New Departure Regular

Each

No. 218—Complete with 8 tooth sprocket $6.50

No. 219—Complete with 9 tooth sprocket. 6.50

One in a Box

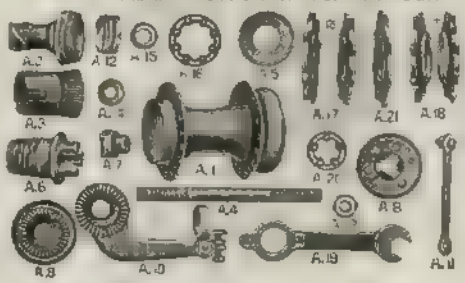
Full nickeled and polished. Length over all, 4 5/8 in., 1 in pitch, sprocket has 8 teeth and is 5/16 in. thick, 36 spoke holes.

Corbin Duplex

No. 8.....Each $6.50

One in a Box

EXTRA PARTS FOR NEW DEPARTURE



Price List of Parts for Nos. 218 and 219

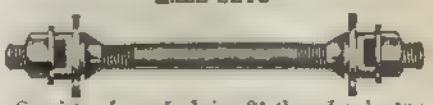
Nos		
A 1	Hub shell	$1.75
A 2	Driver	.90
A 3	Clutch sleeve	.40
A 4	Axle	.25
A 5	Sprocket set nut	.25
A 6	Brake clutch	.60
A 7	Axle adjusting cone	.25
A 8	Brake, complete	.85
A 9	Brake disc	.40
A10	Brake arm	.30
A11	Clip, nut and bolt Per set	.10
A12	Transfer sleeve	.10
A17	Sprocket 7/8 in offset 7 to 12 tooth	.30
A21	Straight sprocket 7 to 12 tooth	.30
A18	Sprocket 7/8 in offset 7 to 12 tooth	.30
A18	Large ball retainer	.20
A20	Small ball retainer	.15
A14	Axle washer, plain Per pair	.05
A15	Socket washer	.05
A13	Axle nut	.05

EXTRA PARTS FOR CORBIN DUPLEX

List of Parts for Model 8

2	Small ball retainer for adjusting cone (including balls).....Each	$0.15
8	Sprocket lock nut.....Each	.25
9	Right side adjusting cone....Each	.25
10	Axle washer .....Pair	.05
11	Axle nut .....Each	.05
14	Large ball retainer (including balls) Each	.20
15	Sprockets 7 8 9 10 11 12 .Each	.30
	Sprockets 1" pitch, 13 and 14 teeth .....Each	.50
	Sprockets, 1" pitch, 16 teeth Each	.60
18	Bushings .....Each	.20
19	Axle .....Each	.25
20	Band connecting brake arm to frame (including bolt and nut) Each	.10
22	Brake shoes .....Pair	
23	Brake shoe levers .....Set	.20
24	Brake shoe springs. .....Set of 4	
28	Braking clutch .....Each	.60
31	Wrench .....Each	.25
45	Driver .....Each	.90
46	Driving clutch .....Each	.50
47	Transfer sleeve .....Each	.15
48	Hub shell .....Each	1.75
107	Arm .....Each	.30
108	Dust cap .....Each	.20
110	—Anchor plate .....Each	.50
112	—Anchor stud .....Each	.10
210	—Braking device washer.....Each	.05

AXLE SETS



Consists of one 5x7/8 in., 24 thread axle, two cones, two nuts and two washers

Front Axle

No. 66201 .....Each $0.36

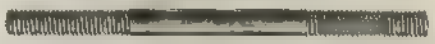
Consists of one 6 1/4x7/8 in., 24 thread axle, two cones, two nuts and two washers.

Rear Axle

No. 66202.....Each $0.40

Packed as Ordered

STEEL AXLES



Plain finish

No. 66207 5x7/8 in., 24 thread...Per 100 $4.00

No. 66208—6 1/4x7/8 in., 24 thread.Per 100 5.00

Packed as Ordered

HEXAGON TAPPED NUTS

No. 28511—7/8 in., 24 thread, nickel plated. Per 100 .....$2.50

No. 28512—7/8 in., 24 thread, nickel plated. Per 100 ..... 2.50

Packed as Ordered

STEEL WASHERS

No. 66217 7/8 in., nickel plated..Per 100 $0.90

No. 66218—7/8 in. nickel plated..Per 100 1.20

Packed as Ordered

STEEL CONES

Case Hardened and Whitened

No. 66209—7/8 in. 24 thread.....Per 100 $9.00

No. 66210 7/8 in. 24 thread.....Per 100 11.00

Packed as Ordered

HANDLE BAR BOLTS

Heads nickel plated and polished. Head 1/2 in. diameter, 1/8 in. thick. Threads 2 in. long.

No. 66502—8x7/8 in., 24 thread...Per 100 $7.00

No. 66506—10x7/8 in., 24 thread..Per 100 9.00

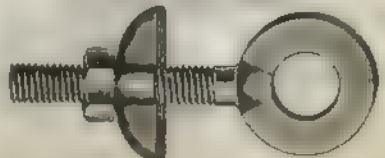
Packed as Ordered

EXPANSION BOLT PLUGS

No. 77700 3/4 inch .....Per 100 $5.00

Packed as Ordered

CHAIN ADJUSTERS



Nickel plated, including eye-bolt and nut

No. 23383.....Per pair $0.15

Packed as Ordered

BIG GAME HUNTER TOYS

Each Set Consists of One Spring Gun 13¼ inches Long, Canvas Cartridge Belt with Brass Buckle and Eight 1½ inch Wood Cartridges; Target 12 inches Long on Wood Base with Lithographed Front in Rich Colors Exactly Illustrating the Big Game Animal in His Natural Surroundings; Behind the Animal is Concealed the Figure of a Hunter or Native, Held by a Device Connected with a Bull's Eye Target so that, when Set, the Figure is Entirely Concealed, but when Bullet Strikes Bull's Eye Figure is Released and Springs Up behind the Animal which Announces a Perfect Hit and Adds a Thrilling Animation to the Target.

A Set of Each Variety Offers a Fine Gallery and Affords an Enchanting Entertainment for a Group of Children or "Grown Ups."

Per Dozen

No. 513—African Lion and Lioness; With Concealed Hunter; Including Gun, Belt and Ammunition; Weight per Dozen 12 lbs. **$12.50**

One in a Box

Per Dozen

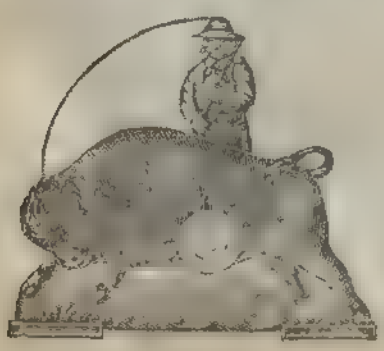
No. 512—Rhinoceros; with concealed Native, Including Gun, Belt and Ammunition; Weight per Dozen 12 lbs. **$12 50**

One in a Box

Per Dozen

No. 514—Elephant; with Concealed Native Driver, Including Gun, Belt and Ammunition; Weight per Dozen 12 lbs. **$12 50**

One in a Box



Per Dozen

No. 515—Bison or American Buffalo; with Concealed "Buffalo Bill Hunter;" including Gun, Belt and Ammunition; Weight per Dozen 12 lbs. **$12.50**

One in a Box

BIG GAME HUNTER TOYS

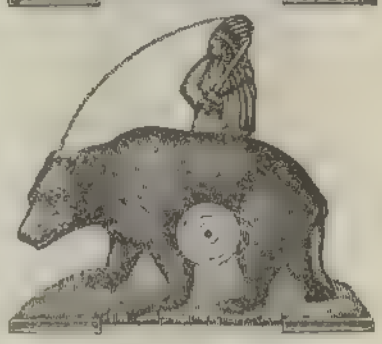
Each Set Consists of One Spring Gun 13¼ inches Long, Canvas Cartridge Belt with Brass Buckle and Eight 1½ inch Wood Cartridges; Target 12 inches Long on Wood Base with Lithographed Front in Rich Colors Exactly Illustrating the Big Game Animal in His Natural Surroundings; Behind the Animal is Concealed the Figure of a Hunter or Native, Held by a Device Connected with a Bull's Eye Target so that, when Set, Figure is Entirely Concealed but when Bullet Strikes Bull's Eye, Figure is Released and Springs Up behind the Animal which Announces a Perfect Hit and Adds a Thrilling Animation to the Target.

A Set of Each Variety Offers a Fine Gallery and Affords an Enchanting Entertainment for a Group of Children or "Grown Ups."

Per Dozen

No. 516—Stag; with Concealed Hunter; Including Gun, Belt and Ammunition; Weight per Dozen 12 lbs. **$12 50**

One in a Box



Per Dozen

No. 517—Grizzly Bear; with Concealed Indian Warrior; Including Gun, Belt and Ammunition; Weight per Dozen 12 lbs. **$12 50**

One in a Box

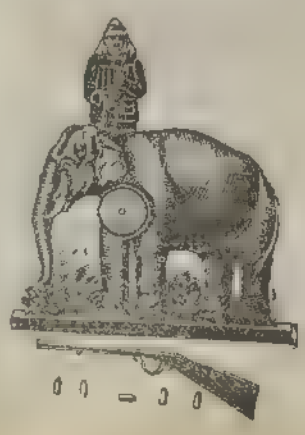
BIG GAME HUNTER TARGET TOYS

Less Expensive Set than No. 512; Hunter is Concealed Behind the Target in the same manner as No. 512 Series; Lithographed Figures are not Quite so Brilliant as the more Expensive Sets; Spring Gun 9¼ inches Long with Five Wooden Projectiles, and a Cork Attached by a Cord; the Cork is Adapted for Short Range Shooting; when the Bull's Eye is Struck the Hunter Leaps into Position behind the Game, which Announces a Perfect Score.

Per Dozen

No. 1251—African Lion; 9¼ x 9¾ inches; Complete with Gun and Ammunition; Weight per Dozen 9 lbs. **$8.00**

One Set in a Box

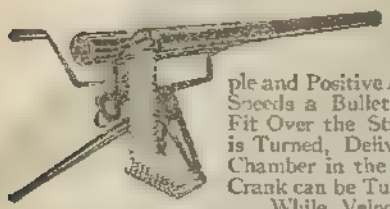


Per Dozen

No. 1252—Elephant; 9¼x11¼ inches; Complete with Gun and Ammunition; Weight per Dozen 9 lbs. **$8.00**

One Set in a Box

TOY RAPID FIRE GUNS



Big Dick; Rapid Fire Machine Gun; Looks and Shoots like its Big Brothers at the Front; Simple and Positive Action; Every Revolution of Crank Speeds a Bullet on its Way; the Slotted Bullets Fit Over the Strong Feed Tape, which as Crank is Turned, Delivers a new Charge Right into the Chamber in the Breech; Fires 36 Shots as Fast as Crank can be Turned; Very Accurate.

While Velocity is not great enough to make it Unsafe for Children, it will Shoot Straight and Knock Down Toy Soldiers and "Demolish" a Toy Fort at a Distance of 10 to 15 Feet.

Cast Iron Gun Carriage; Length Over all 23 inches; Height 10½ inches; Length of Barrel 18 inches; All Black Enameled Finish.

Per Dozen

No. 269—Box 10x23 inches; Weight per Dozen 30 lbs.....**$51 00**

One in a Box

Shoots 10 Shots in Five Seconds; Black Finished Wood Breech and Barrel on Japanned Iron Carriage; Height 6 inches; Length from Muzzle to Breech 7¼ inches; Firing Mechanism Consists of a Powerful Tempered Spiral Spring, which is Contracted and Released as the Crank is Turned; Projectiles Consist of Bullet Shape Wooden Plugs 1⅜ inches Long, Slotted to Fit the Automatic Feed; Will Shoot as Fast as the Crank is Turned; with Four Brilliantly Lithographed Soldiers and a Liberal Supply of Ammunition.

Per Dozen

No. 273—Box 9¾x6½ inches with Illustrated Cover; Weight per Dozen 12 lbs.....**$10 00**

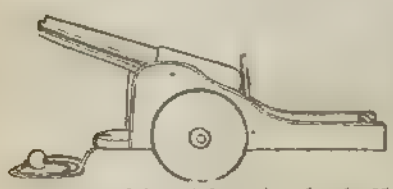
One in a Box

Rapid Firing Automatic Field Gun; Double Wood Barrel, Carriage and Wheels Black and Gold Finish; Complete with Twenty "Shells"; Shoots All from One Loading; Balls are Placed in Upper Barrels; Gun is Trained on Position to be Attacked and Gunner Turns Crank as Fast as Desired; with Each Revolution of Crank Two Shots are Fired, Making it Possible to Produce the Effect of "Curtain Fire;" Length 10¾ inches.

Per Dozen

No. 1563—Weight per Dozen 6 lbs.....**$6 50**

Half Dozen in a Carton



Mounted Cannon; All Wood; Length 12 inches; Enameled Gun and Carriage; Battleship Gray with Bright Red Wheels; Woven Cotton Leading Strng with Red Ball on End; Length of Barrel 7 inches; Adjustable Range Up and Down; Shoots Wooden Projectiles 2x5/16 inch, a Distance of 6 to 8 feet; Absolutely Harmless; Complete with 12 Projectiles.

Per Dozen

No. 1028—Weight per Dozen 12 lbs.....**$10 00**

One in a Package

Field Artillery Outfit; Pressed Steel; Enameled in Bright Natural Colors, Consists of Horse and Ammunition Caisson, with Driver Permanently on Seat; Detachable Mounted Field Cannon, Adjustable Range Up and Down; Shoots with Spring Release; Caisson Equipped to Reveal Ammunition Chest; Cannon Shoots Standard Cork Projectiles to ¾ inch, with Slight Force; Complete with Liberal Supply of Pointed Oblong Wood "Shells;" Absolutely Harmless.

Per Dozen

No. 1253—Length 17 inches; Weight per Dozen 8 lbs.....**$9 00**

One in a Package

MOUNTED CANNON
Attached Cork

Made of Steel; Red Enameled Carriage and Open Spoke Wheels; Lever Compression.

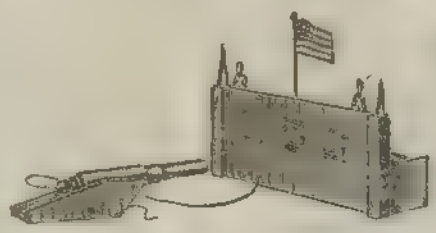
Per Dozen

No. 2021—Length 8¼ inches; Width 2¼ inches; Weight per Dozen 4½ lbs.....**$3 60**

Half Dozen in a Box

WAR GAMES

FORT GAME



Consists of a Wooden Fort 14 inches Long and 5 inches High, Painted Gray; in Each of the Three Openings a Dummy Cannon is Mounted in Such Manner that when Struck by a Projectile it Tips Over Backwards; an Ingenious Device Resets the Cannon into Position and is Controlled by a String so that Child Shooting at Fort can Reset without Leaving Attacking Position; the Cannon is made of Wood, on Wood Carriage and is Adjustable in Range up or Down; the Barrel of Gun is 8 inches Long, and Shoots Cylindrical Projectiles ⅜x1¼ inches with Good Force and Accuracy; Fort Complete with Cannon, Projectiles, Flag, and Two Handsomely Lithographed Soldiers.

Per Dozen

No. 1562—Weight per Dozen 12½ lbs.....**$12 00**

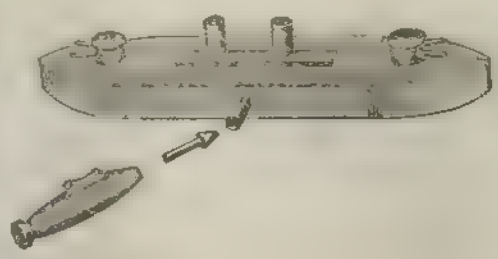
One in a Carton

Consists of a Rapid Fire Cannon; Two 12 inch Battle Ships, Lithographed in Natural Colors and an 8x12 inch Lithographed Marine Standard to give Ships a Natural Background; Battleships are made in Sections Mounted on Accurately Fitted Wood Bases so that a Shot from Cannon Striking a Funnel or Any Other Portion, Knocks that Section Down, Leaving the Rest of Ship Standing to be Demolished as Battle Progresses.

Per Dozen

No. 268—Box 18¼x9¾ inches; Weight per Dozen 21 lbs.....**$19 20**

One in a Box



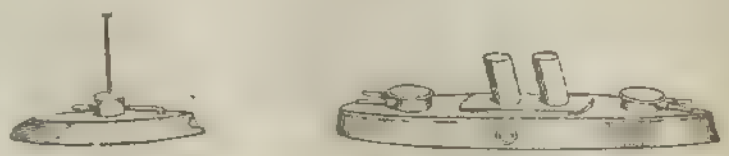
Exploding Naval Toys

Consists of a Wooden Battleship in Sections; So Arranged that when Struck in the Vital Spot marked by a Red Plug the Entire Vessel is Burst Asunder and Collapses, just like a Torpedo Destroys a Ship; Length 11½ inches; Painted Battleship Gray; 1¾ inch Wood Cannon, which Shoots a 3 inch Wood Projectile with Accuracy and Force.

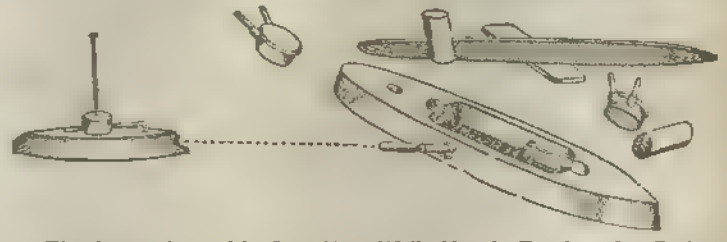
Per Dozen

No. 1561—Weight per Dozen 7½ lbs.....**$5.00**

One in a Box



The Submarine Ready to Attack the Cruiser.



The Submarine, with One Shot Well Aimed, Putting the Cruiser out of Commission.

Consists of Two Wood Boats, a Torpedo Shooting Submarine and a Large Cruiser; Both made from Hardwood, Gray Enameled and Practically Indestructible, Simple and Easy to Operate Mechanical Arrangement for Shooting Wooden Projectiles Shaped like Torpedoes; In Firing Torpedoes Player Aims at the Red Target, or "Vital Spot," of the Cruiser; When Struck, Projectile Sets a Powerful Spring Action Mechanical Contrivance within the Hull of the Cruiser, Causing the Whole Deck and all Fittings to Blow Up; a most Realistic Destruction; Easily Re-assembled and Ready for Another Attack.

Per Dozen

No. 510—Length of Cruiser 11¾ inches; Length of Submarine 6½ inches; Weight per Dozen Sets 13½ lbs.....**$12.00**

One Set in a Box

TACK.

Per Dozen.

No. T10—Polished iron head and claw, stained hickory handle, length 9 ins.; weight per dozen 2 lbs. $0.90

No. T25—Polished iron head and claw, hickory handle; length 11 ins.; weight per dozen, 3¾ lbs. ..... .90

One dozen in a box.

Per Dozen.

No. T4—Malleable hardened head, inlaid walnut handles; length 12 ins.; weight per dozen, 4½ pounds $3.00

One dozen in a box.

MAGNETIC.

Per Dozen

No. T12—Magnetic head, iron handle and claw, tinned; length 10¼ ins.; weight per dozen, 6 lbs. $1.50

One dozen in a box.

Per Dozen.

No. T2—Magnetic head, steel claw and hickory handle; length 11 ins.; weight per dozen, 4 lbs. $1.60

Half dozen in a box.

HORSESHOE MAGNETIC.

Per Dozen.

No. T6—Extra quality tool steel, magnetized on one end, tack claw on the other end, 12-inch selected hickory handle; length 12 ins.; weight per dozen, 6 lbs. $3.90

Half dozen in a box.

UPHOLSTERERS'.

Per Dozen.

No. U57—Nickel plated head, varnished handle: length 11 ins.; weight per dozen, 4½ lbs. $2.40

One dozen in a box.

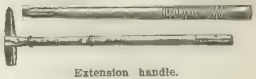
Per Dozen.

No. U265—Cast steel, full polished, hickory handle; length 11½ ins.; weight per dozen, 6½ pounds $9.50

Half dozen in a box.

BILL POSTERS'.

MAGNETIC.



Extension handle.

Each.

No. 56 Bill Posters'—Cast steel hammer, 36 inch jointed handle in two sections, complete with card and tack spring attachments; weight of hammer only, 5 ounces $3.30

Two sets in a box.

HAMMERS.

SPALLING.

SINGLE FACE.

No. 710—Solid cast steel, oil finish; polished head

Wgt., lbs.	5	6	7	8	9	10	12	14	20
Per pound	$0.40	.40	.40	.40	.40	.40	.40	.40	.40

DOUBLE FACE.

No. 720—Solid cast steel, oil finish; polished head.

Weight, lbs.	5	6	8	10	12	14	16
Per pound	$0.40	.40	.40	.40	.40	.40	.40

MASON.

No. 670—Solid cast steel, axe finish; red enameled body; polished head and point.

Wgt., lbs.	3½	4	4½	5	6	6½	7	7½	8
Per pound	$0.55	.55	.55	.50	.50	.50	.50	.50	.50

One in a box.

STRIKING.

OREGON PATTERN.

No. 760—Solid cast steel, oil finish.

Weight, lbs.	7	8	9	10
Per pound	$0.30	.30	.30	.30

NEVADA PATTERN.

No. 750—Solid cast steel, oil finish.

Weight, lbs.	3	3½	4	4½
Per pound	$0.40	.40	.40	.40

Weight, lbs.	5	6	7	8	9	10	12	16
Per pound	$0.30	.30	.30	.30	.30	.30	.30	.30

BLACKSMITHS' HAND.

No. 861—Solid cast steel, oil finish.

Weight, lbs.	2	2½	3½
Per pound	$0.50	.50	.40

HAND DRILLING.

No. 770—Solid cast steel, oil finish.

Weight, lbs.	3½	4
Per pound	$0.50	.50

SLEDGES.

BLACKSMITH.

No. 830—Solid cast steel, oil finish, polished head

Weight, lbs.	6	7	8	10	12	14	16
Per pound	$0.30	.30	.30	.30	.30	.30	.30

STONE.

No. 730—Solid cast steel, oil finish.

Weight, lbs.	8	10	12	14	18	18
Per pound	$0.30	.30	.30	.30	.30	.30

All except No. 670 in bulk.

WOOD CHOPPERS' MAULS.

OREGON, PLAIN EYE.

No. 960—Solid cast steel, oil finish; ground sharp.

Weight, lbs.	7	7½	8	9	10
Per pound	$0.36	.36	.36	.36	.36

OREGON, AXE EYE.

No. 960A—Solid cast steel, oil finish; for double bit axe handles.

Wgt. lbs.	6	7	8	9	10
Per pound.	$0.36	.36	.36	.36	.36

LAKE SUPERIOR PATTERN.

No. 970—Solid cast steel, oil finish; ground sharp.

Weight, lbs.	10	12
Per pound	$0.36	.36

WOOD CHOPPERS' WEDGES.

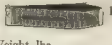
REGULAR PATTERN.

Solid cast steel, japanned finish, ground sharp.

Weight, lbs	3 to 7
Per pound	$0.17

Weights, 3, 4, 4½, 5, 5½, 6 and 7 lbs.

TRUCKEE PATTERN.



No. 980 (Old No. 1)—Warranted cast steel, japanned finish.

Weight, lbs	4	5	6
Per pound	$0.25	.25	.25

No. 2—Solid cast steel, oil finish.

Wgt., lbs.	4	4½	5	5½	6	6½	7	8	9
Per pound	$0.19	.19	.19	.19	.19	.19	.19	.19	.19

POST MAULS.

HANDLED.

Forged from solid cast steel; natural finish; selected 36-inch hickory handles, thoroughly seasoned and polished.

Weight, lbs.	10	13	16	18
Each	$0.60	.85	1.00	1.20

SAW WEDGES.

Solid cast steel, japanned finish.

Weights, lbs	1, 1¼	2, 2½, 3
Per pound	$0.30	.26

BASE BALL BATS

*BINGLER

Bingler Bats are the Combined Results of Suggestions of some of the Big Leagues' expert Batters. They embody all the good features essential to hard and scientific work. Their Driving Power is unsurpassed. We use nothing but the best selected straight grained second growth Ash, open air dried and thoroughly Seasoned before turning. All Timber is Hand Split (not Sawed), thereby preserving a continuous Grain. Each Bat Hand Turned to Gauge. Used by Professional Ball Players and wherever the best is wanted.

MODEL BATS

There seems to be a tendency on the part of the trade to order Bats of certain Models as used by professional players. Ball Players autographs and pictures on Bats cost money, for which the trade must pay.

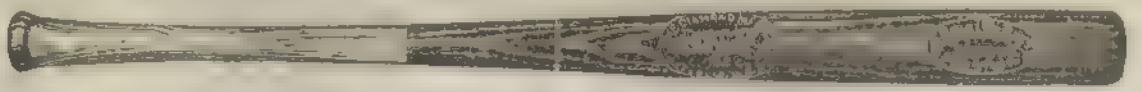
We have considered it wise in our regular Bingler line of Bats to exclude from our Customers selection [illegible] but to enable our Patrons to successfully cope with it we have decided to make our Bingler Bats according to several Models. These Models will be exact in length, weight, shape and balance with the official Model of leading players.

Customers ordering according to these Models will receive Bats of the highest quality (as possible to produce) and in exact duplicate, as far as Measurements, Dimensions, Weights, etc., are concerned of the Bats used by the celebrated players.

The Models that we will carry regularly will be as follows:

No. 151—Wagner Model; Plain Handles, Natural Finish; Orange Body, Assorted Lengths, 32 to 34 inches; Average Weight per Dozen 30 lbs. ..... Per Dozen **$20 00**

Twelfth Dozen in a Paper Bag, Three Dozen in a Crate; Average Weight per Crate 120 lbs.



No. 152—Joe Jackson Model; Plain Handles, Natural Finish, Green Body, Assorted Lengths, 32 to 34 inches; Average Weight per Dozen 30 lbs. ..... Per Dozen **$20 00**

Twelfth Dozen in a Paper Bag; Three Dozen in a Crate, Average Weight per Crate 120 lbs.

Per Dozen

No. 153—LaJoie Model; Plain Handles, Natural Finish; Red Body; Assorted Lengths 32 to 34 inches, Average Weight per Dozen 30 lbs. . **$20.00**

Twelfth Dozen in a Paper Bag; Three Dozen in a Crate; Average Weight per Crate 120 lbs.

Per Dozen

No. 154—Speaker Model; Plain Handles, Natural Finish; Blue Body; Assorted Lengths 32 to 34 inches; Average Weight per Dozen 30 lbs. **$20 00**

Twelfth Dozen in a Papet Bag; Three Dozen in a Crate; Average Weight per Crate 120 lbs.

Per Dozen

No. 100T—Tape Wrapped Handle; Natural Finish; Assorted Lengths 32 to 36 inches, Weight per Dozen 72 lbs. **$15 50**

Twelfth Dozen in a Paper Bag; Three Dozen in a Crate; Average Weight per Crate 120 lbs.

Plain Handle; Light Burnished Surface; Assorted Lengths 32 to 34 inches; Average Weight per Dozen 30 lbs.

Nos.	100XJJ	100XS	100XW	100XL	100XBB	100XC	100XEC
Name	Joe Jackson	Tris Speaker	Wagner	LaJoie	Baker	Cobb	Eddie Collins
Per Dozen	$15.50	15.50	15 50	15.50	15.50	15.50	15.50

Twelfth Dozen in a Paper Bag; Three Dozen in a Crate; Average Weight per Crate 120 lbs.

BASE BALL BATS

★DIAMOND BRAND

Diamond Brand Bats Embody all the Good Features Essential to Hard and Scientific Work. We Use nothing but the Best Selected Straight Grained Second Growth Ash, Open Air Dried and Thoroughly Seasoned Before Turning. All Timber is Hand Split (Not Sawed) Then [illegible] reserve a [illegible] Grade Each Bat [illegible] Perfect to Shape [illegible] Thoroughly and Wherever the Best is Wanted.

Per Dozen

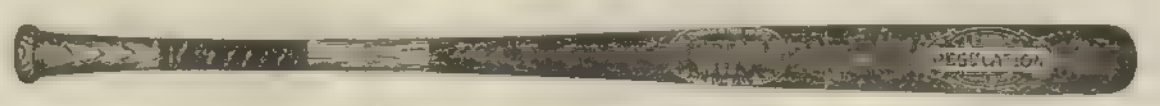
No. 76—First Quality Ash, Natural Finish and Highly Polished, Assorted Lengths, 24 to 36 inches; Weight per Dozen 24 lbs..... **$13 50**

Twelfth Dozen in a Paper Bag; 3 Dozen in a Crate

Per Dozen

No. 66—First Quality Ash; Light Burnished Surface; Highly Polished, Assorted Lengths, [illegible] inches; Weight per Dozen 24 lbs **$9 00**

Twelfth Dozen in a Paper Bag; 3 Dozen in a Crate.



Per Dozen

No. 56—Tape Wrapped Handle; Barrel Stained a Rich Mahogany; Highly Polished, Assorted Lengths 32 to 36 in.; Weight per Dozen 24 lbs. **$10 00**

Twelfth Dozen in a Paper Bag; 3 Dozen in a Crate

Per Dozen

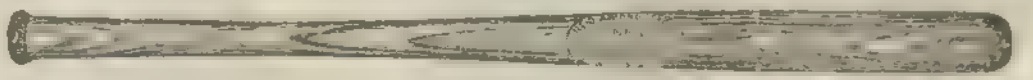
No. 60—First Quality Ash; Boys' Size; Burnished Lightly to Harden Surface; Length [illegible] inches; Weight per Dozen 18 lbs **$8.00**

Twelfth Dozen in a Paper Bag; 3 Dozen in a Crate.

Per Dozen

No. 31—First Quality Ash; Natural Finish; Highly Polished; **Small Handle, Well Proportioned; Lengths 32 to 36 inches; Weight per Dozen** [illegible] lbs **$4.50**

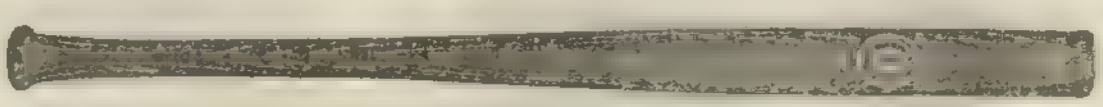
Twelfth Dozen in a Paper Bag; 3 Dozen in a Crate



Per Dozen

No. 26—First Quality Ash, Light Burnished Surface, Highly Polished, Trade Mark [illegible] Length 34 Inches; Weight per Dozen 27 lbs **$4 00**

Twelfth Dozen in a Paper Bag. 3 Dozen in a Crate.



Per Dozen

No. 25B—Good Quality Second Growth Straight Grained Ash; Burnished Black to Harden the Surface; Assorted Lengths 32 to 36 inches; Weight per Dozen 27 lbs..... **$4 00**

Twelfth Dozen in a Paper Bag, Six Dozen in a Crate. Average Weight per Crate 170 lbs.

Per Dozen

No. 16—Boys' Size; Light Burnished, Highly Polished Ash; Length 30 inches; Weight per Dozen 16 lbs..... **$2 50**

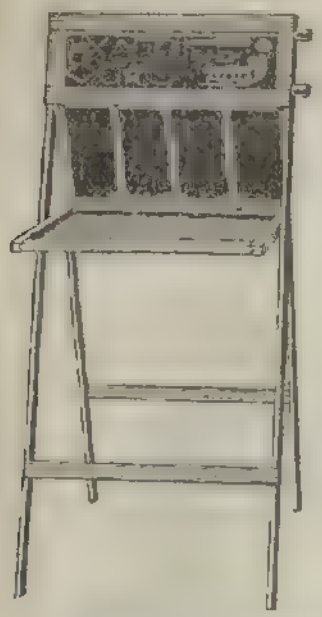
Twelfth Dozen in a Paper Bag; 3 Dozen in a Crate.

Per Dozen

No. 11—Boys' Size; Light Mission Finish; Red Band at Center Striped with Black; Highly Polished; Length 28 inches, Weight per Dozen 81 lbs..... **$1 60**

Twelfth Dozen in a Paper Bag; 3 Dozen in a Crate

BLACKBOARD DESKS



Combination Writing Desk; Plain Hardwood; with Bright Red Back Panels and Chalk Pockets; Reversible Blackboard Coated on Heavy Cardboard; Swiveled So One Side Forms Flat Top for Desk Writing and Reverse Side Tips Up in Standing Position; with Four Charts of Letters, Figures, and Illustration on Revolving Roller Stretcher; Chain Supports; Height 43 inches; Width 20 inches.

Per Dozen

No. 762—Weight per Dozen, 54 lbs..... **$24.00**

Quarter Dozen in Package

Combination Writing Desk; Varnished Heavy Hardwood; with Bright Red Back Panels and Pockets; Reversible Wood Blackboard, Coated with Writing Surface on Side which Tilts Up for Standing Position; When Lowered it Forms a Flat Top Writing Desk with Varnished Hardwood Surface; Chain Supports; Large Series of Charts and Colored Pictures on Revolving Roller Stretcher; Height 44 inches; Width 23 inches.

Per Dozen

No. 763—Weight per Dozen 76 lbs **$30 00**

Two in a Package

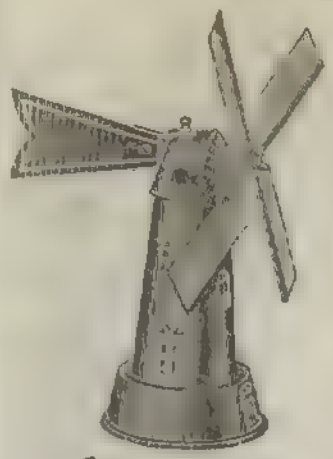
Combination Writing Desk; Same as No. 763, Except Blackboard is Coated on Extra Heavy Cardboard, with Blackboard Surface on Both Desk Side and Upright Side; Height 44 inches; Width, 23 inches.

Per Dozen

No. 764—Weight per Dozen ... lbs **$42 00**

Two in a Package

TOY WIND MILLS



Dutch Windmill; Made Entirely of Iron and Steel; Thoroughly and Carefully Constructed to Last for Generations; Handsomely Finished in Enameled Colors and Nickel Plate; So Finely Adjusted That the Slightest Breeze from Draft or Fan Turns the Wheel to Face It and It Revolves Rapidly.

Per Dozen

No. 1130—Height 15 inches; Diameter of Wheel 12 inches; Weight per Dozen 28 lbs.....**$12.00**

One in a Package

American Wind Mill; Same Sturdy Finely Adjusted Working Parts as No. 1130; Scaffold Frame, like Wind Mills Used in This Country, and Smaller Wheels with More Paddles or Wind Planes; Staunch Wood Frame; Nickel Plated Cast Iron Platform and Cap; All Steel and Iron Working Parts, Nickel Plated; Richly Enameled Vane and Planes, Planes, Red, White and Blue.

Per Dozen

No. 1131 — Height 26 inches; Greatest Diameter 10 inches; Diameter of Wheel 6¾ inches; Weight per Dozen 16 lbs..... **$6 00**

One in a Box

TOY LAWN MOWERS

Lawn Mower; Delights All Children; the Aluminum Bronzed "Cutting Reel" Revolves with the Drive Wheel, Making a Realistic Appearing Mower, But There is no Cutting Bar, so no Danger of Injury.

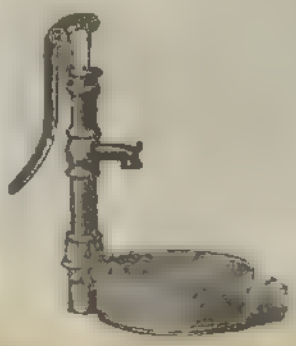
2¾-inch Green Enameled Drive Wheels; Red Frame; Gold Decorations; Hardwood Roller.

Per Dozen

No. 1128—Length 23 inches; Width 5 inches; Weight per Dozen 14 lbs. **$4 50**

Half Dozen in a Package

TOY PUMPS



Cast Iron; Gold Bronzed Pump; Blue Enameled Tub: When Water is Placed in Tub it Can be Pumped Back and Forth from Pump to Tub.

Per Dozen

No. 1139—Height 8¼ inches; Weight per Dozen 20 lbs..... **$6 00**

Half Dozen in a Package

GAMES

LOTTO

Wood Frame Box, Covered with Red Imitation Leather, Label Embossed in Silver; Contents includes 24 Numbered Cards 7x8¼ inches; Lithographed in Green and Black; a Full Set of Glass Markers and Polished Hardwood Counters, the Counters are Enclosed in a Cloth Bag, and the Markers in a Small Pasteboard Box; A thoroughly High-Grade Set in Every Respect.

Per Dozen

No. 231—Box 10x8½ inches; Weight per Dozen 17 lbs..... **$11 00**

Four in a Package

LOTTO

Wood Frame Box, 6¼x4⅛ inches; Covered with Imitation Wood Grain Paper; Contains 24 Lithographed Cards, Full Set of Glass Markers, and Wood Counters; Fine Lithographed Label.

Per Dozen

No. 230—Weight per Dozen 10 lbs..... **$4 70**

Four in a Package

Per Dozen

No. 229—A small Edition for a Low Price; Contains 12 Colored Counters and Round Cornered Wood Counters in Boxes with Fine Lithographed Label Weight per Dozen 4 lbs..... **$1.90**

One Dozen in a Package

BACKGAMMON BOARDS

Made in the Form of a Book; Well Hinged; the Squares are Red and Black Stained, Complete with Full Set of Checkers.

Per Dozen

No. 215—Size Open 15x10 inches; Wood Frame, Very Well Made, Strong and Substantial; Enameled Playing Surfaces with Two Stained Wood Dice Cups; Weight per Dozen 20 lbs..... **$8 50**

Two in a Package

No. 214—Size Open 16x15¾ inches; Wood Frame; Heavy Board Top; Enameled Playing Surface; Elaborate Design; with One Stained Wood Dice Cup; Weight per Dozen 12½ lbs..... **$4 80**

Half Dozen in a Package

Per Dozen

No. 213—Size Open 15x11¼ inches; Wood Frame; Medium Board Top; Enameled Playing Surfaces With One Dice Cup; Weight per Dozen 8 lbs..... **$2 60**

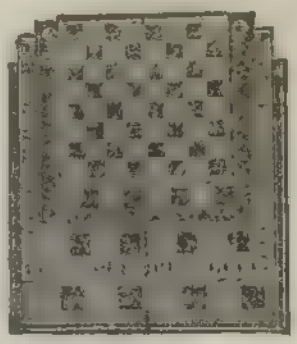
Half Dozen in a Package

No. 212—Size Open 11¾x11½ inches; Not Varnished; Light Wood Frame; Light Board Top; with One Dice Cup; Weight per Dozen 6 lbs..... **$2 00**

Half Dozen in a Package

GAMES

CHESS OR CHECKER BOARDS



CHESS BOARDS

Imitation Leather Cloth Back; Red and Black Squares; Double Hinged; Extremely Well Made.

Per Dozen

No. 219—16¼x16¾ inches; Extra Heavy Board; Enameled Surface; Elaborate Design; with Gold Decoration; Weight per Dozen 18 lbs..... **$6 00**

Half Dozen in a Package

No. 218—15x15 inches; Heavy Board; Enameled Surface; Gold Decorations; Weight per Dozen 10 lbs..... **3 60**

Half Dozen in a Package

No. 217—14x14 inches; Medium Board; Enameled Surface; Weight per Dozen 6 lbs..... **1 80**

One Dozen in a Package

No. 216—12¼x12¼ inches; Light Weight Board; Plain Surface; Weight per Dozen 3 lbs..... **1 00**

One Dozen in a Package

POCKET CHECKER BOARD

8x4x⅝ inches; Folding Hardwood Board; Polished Ebony Satin Finish; Brass Hinges and Catch; Red and Black Enameled Squares with Gold Border; 7/16 inch Red and Black Composition Checkers with ¼ inch Stems Fitting into Drilled Sockets; Black Squares Bored so Checkers Can be Fitted into Sockets to Prevent Sliding and to Preserve Unfinished Games; Stems also Fit into Sockets in Checkers for "Crowned Pieces."

Per Dozen

No. 391—Weight per Dozen 8 lbs..... **$12 00**

One in a Package

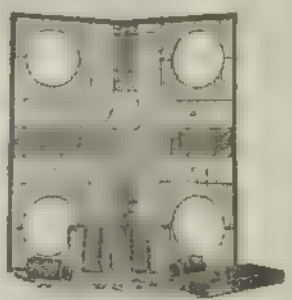
CHESS MEN

American Box Wood; Hand Turned; Waxed Finish; Height of King Piece 2½ inches; Box 5x4 inches; Complete with Rules of Play.

Per Dozen Sets

No. 286—Weight per Dozen 6 lbs..... **$13 00**

One Set in a Box



INDIA OR PARCHESI

Heavy Folding Board; Well Made and Hinged; Black Imitation Leather Back; Brilliantly Lithographed Enameled Playing Surface; Box 7½x3 inches; Containing Sixteen Colored Counters with Metal Rims; Four Wood Dice Cups; Eight Bone Dice; and Rules of Play.

Per Dozen

No. 226—Weight per Dozen 16 lbs..... **$13 00**

Half Dozen in a Package

7x10 inches. Same as No. 226, Except Smaller and Lighter Weight Board, and Box 3 ¾x7½ inches, Contains Sixteen Stained Wood Counters Two Wood Dice Cups, Two Bone Dice, and Rules of Play.

Per Dozen

No. 225—Weight per Dozen 13½ lbs..... **$6 50**

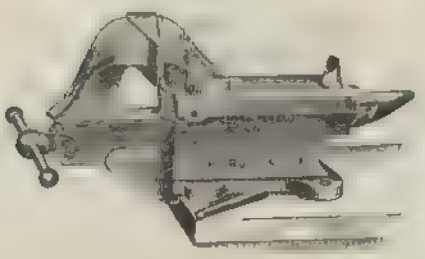
Half Dozen in a Package

BLACKSMITHS' SOLID BOX VISES

Wrought steel, painted black, polished jaws

	Approx. Weight, Pounds	Width Jaws, Inches	Vise Opens, Inches	Each
No. 25	25	3¼	3¾	$12.00
No. 30	30	3⅝	3¾	11.00
No. 35	35	4	3¾	10.00
No. 40	40	4	4	10.50
No. 45	45	4¼	4¼	11.00
No. 50	50	4¼	4½	11.50
No. 60	60	4½	5	13.00
No. 70	70	5	5¼	15.00
No. 80	80	5¼	5½	17.50
No. 90	90	5½	5¾	20.00
No. 100	100	6	6	22.00
No. 115	115	6¼	6½	25.00
No. 125	125	6½	6½	27.50
No. 150	150	7	7	36.00
No. 180	180	7½	8	47.00
No. 200	200	8	8	56.00

COMBINATION ANVIL AND VISES



Cheney's

Made from best grade iron. Face is chilled hard and smooth, jaws faced with steel and tempered, solid wrought iron screws. Each tool is furnished with a steel hardy. Removable jaws. It is also made so that by removing the tapered steel pin, the adjustable jaw will turn so as to hold odd shaped articles Well finished

No. 20—Weight about 25 lbs., face of anvil 6½x3 in., jaws about 3½ in wide, opens 4 in.....Each $4.50

No. 30—Weight about 35 lbs., face of anvil 8x3½ in., jaws about 4 in. wide, opens 5 in.....Each 5.50

ANVIL AND VISE COMBINED

With Jaws for Holding Pipe

Steel screw with cut threads, steel nut, steel handle. Anvil and all finished parts highly polished and lacquered.

No. 380—Weight 26 lbs., jaws 3 inches wide, opens 5 inches.....Each $2.25

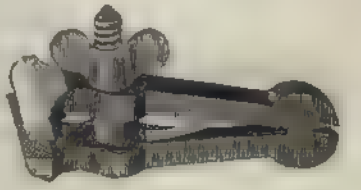
STEWART HANDY WORKER

A strong practical tool, combining a vise up to 4½ in.; width of jaw ¢ in., cutting hardie, pipe vise for pipe up to 1⅛ in., two-speed drill press, anvil, carborundum grinding wheel 5 in. x 1 in.—three speeds: direct, 1 to 1 and 16 to 1. Weighs 90 lbs. boxed

Stewart Handy Worker.....Each $25.00

One in a Box

HAND VISES



Cast steel, extra quality

No. 142—

Length, in.	3	4	5	6
Per dozen	$6.40	6.40	9.20	12.80

Half Dozen in a Box

The jaws are parallel, and are drop forged from best tool steel. Has opening in thumb screw into which a lever may be inserted.

No. 1L—With loop .....Each $2.50

Six in a Box

HAND VISES

Cast steel, extra quality, handled.

No. 145—Length 5 in.....Per dozen $12.00

Half Dozen in a Box.

The jaws, screw and cross-bar are made of steel, cocobolo handle. It is hollow, and the bit shank and tools shown in the cut are placed inside. The blades bent at right angle are used for cutting washers. The vise jaws are 1¼ in. wide and open 1⅛ in

Alford's

No. 1—Complete.....Per dozen $27.50

Half Dozen in a Box

PIN VISES

Hardened jaws with chucks so made that they will hold firmly anything inserted in them. The hole extends through full length of handle.

No. 182— **Starrett's**

Sizes	A	B
Capacity, inches	0 to .040	.030 to .062
Each	$0.55	.55
Sizes	C	D
Capacity, in.	.050 to .125	.115 to .187
Each	.55	.75

Six in a Box

TINNERS' SNIPS OR SHEARS

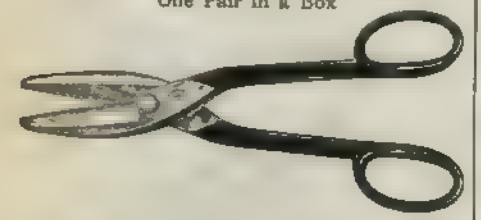
HEINISCH

Forged steel, japanned ring handles, polished blades.

Regular Hand

Nos.	26½	27	28	29
Length, in.	15⅛	14⅛	13⅛	12¼
Cut, in.	4⅛	4	3⅛	3
Per pair	$3.00	2.50	2.00	1.75
Nos.	**30**	**31**	**32**	
Length, inches	11⅛	9	8	
Cut, inches	2⅛	2¼	2	
Per pair	$1.60	1.40	1.10	

One Pair in a Box

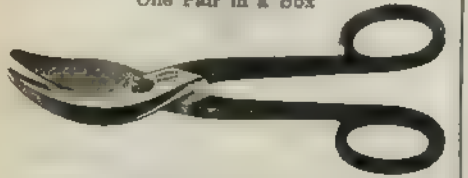


Forged steel, ring handles, rounded back blades, designed to cut curves and irregular shapes, japanned handles, polished blades.

Oval Back Hand

Nos.	67	68	69	70
Length, inches	14⅛	13⅛	12¼	11⅛
Cut, inches	4	3⅛	3	2⅛
Per pair	$3.00	2.50	2.00	1.90

One Pair in a Box



Forged steel, ring handles, curved blades, for cutting curves, scrolls, etc., handles japanned, blades polished.

Circular Hand

Nos.	370	380	390	400
Length, inches	14⅛	13¼	12¼	11¼
Cut, inches	4	3⅛	3	2⅛
Per pair	$3.50	3.00	2.75	2.50

One Pair in a Box

PEXTO

Forged from the best Norway iron, steel laid, ring handles japanned, polished blades.

1819 Original Regular Hand

Nos.	6½	7	8
Length, inches	15⅝	14¼	13⅛
Cut, inches	4¼	4	3⅛
Per pair	$3.00	2.50	2.00
Nos.	**9**	**10**	
Length, inches	12	11	
Cut, inches	3	2⅛	
Per pair	$1.75	1.60	

No. 8LHM—Length 13½ inches, cut 3⅛ inches. For left hand man.
Per pair $3.00
One Pair in a Box
NOTE—No. 8LHM has bows reversed.

PEXTO

Forged from best grade Norway iron, steel laid blades, full polished, japanned handles. The blades are curved to permit cutting circular scrolls, etc.

1819 Original Circular Hand

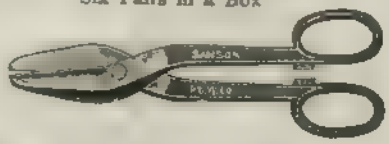
Nos.	C7	C8	C9	C10
Length, inches	14⅛	13⅛	12	11
Cut, inches	4	3½	3	2½
Per pair	$3.50	3.00	2.75	2.50

One Pair in a Box

Solid forged steel, ring handles, polished blades, polished and blued handles.

Pocket Hand

No. 82—Length 7 inches, cut 2 inches.
Per pair $1.00
One Pair in an Envelope
Six Pairs in a Box



Forged from the best material, steel laid, polished blades, japanned handles.

Samson Regular Hand

Nos.	46	47	48	49
Length, inches	15⅝	14⅛	14	12¾
Cut, inches	4⅛	4	3½	3⅛
Per pair	$3.00	2.50	2.00	1.50
Nos.	**50**	**51**	**52**	
Length, inches	11⅛	10½	8½	
Cut, inches	2⅛	2¼	2	
Per pair	$1.40	1.20	1.00	

One Pair in a Box

Forged from best material, steel laid, ring handles, curved blades for cutting scrolls, etc., polished blades, japanned handles.

Samson Circular

Nos.	C47	C48	C49	C50
Cut, inches	4	3½	3	2½
Length, inches	14⅛	14	12¾	11
Per pair	$3.50	3.00	2.50	2.25

One Pair in a Box

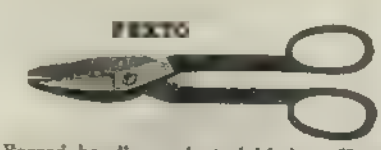
Forged steel, laid steel blades, polished beveled blades, japanned ring handles, for circular or straight work.

Hercules Combination

Nos.	146	147	148	149	150
Length, in.	15½	14⅛	13½	12½	11⅜
Cut, in.	4⅛	3⅜	3⅛	3	2½
Per pair	$3.00	2.50	2.00	1.50	1.40

One Pair in a Box

PEXTO



Forged handles and steel blades. Handles are japanned and blades are polished.
Adapted to cornice and tin work, and are made so as to easily cut circles, scrolls, etc. Blades are rounding and very sharp pointed.

Lyon Scroll or Circular

Nos.	165	170	180	190
Length, inches	15½	14	13	11½
Cut, inches	4	3½	3	2¼
Per pair	$3.00	2.50	2.00	1.50

One Pair in a Box

Forged blued finish handles steel blades, polished head. The blades are hawk billed in shape and have a peculiar clearance bevel between the cutting edges, which permits them to easily turn a sharp corner or work around a small curve without buckling, and being unusually narrow and sharp pointed they will cut openings in pipe or cylinders. Also adapted for straight cutting.

Hawk's Bill Combination Scroll and Circular

No. 15—Length 11¾ inches, cut 3 inches.
Per pair $3.00
One Pair in a Box

Solid forged steel, ground finish blades, japanned handles. A good, medium priced snip for all around work.

Regular Hand

No. 99—Length 12½ inches, cut 3 inches.
Per pair $1.00
Six Pair in a Box

CLIPPER

A good, low priced snip, polished blades, black japanned handles, with adjustable bolt.

Regular Hand

Nos.	2	2½	3
Length, inches	9⅞	11	12
Cut, inches	2	2½	3
Per dozen pair	$2.40	3.00	3.60

Half Dozen Pairs in a Box

SEARIGHT'S

Forged steel, polished blades, japanned handles.
The back part of the inside of the blades is cut away so as to allow them to easily pass over or under the stock in cutting either inside or outside curves.

Compound Lever Snips

Nos.	8L	10L	12L	14L
Length, inches	8	10½	12	14
Cut, inches	1¾	2⅛	3	3⅛
Per pair	$3.00	4.50	6.00	7.00

One Pair in a Box

BLACKSMITHS' TOOLS

TOP FULLERS

Solid forged steel, oil finished. Average length 5⅛ to 7 in

Size, in	¼	⅜	½	⅝	¾	⅞
Wt, about lbs.	2	2	2⅛	2⅛	2¼	2¼
No 55 Per dozen	$9 00	9 00	9 00	9 90	9 90	9 90
Size, in.	1	1¼	1½	1¾	2	
Wt, about, lbs.	3⅛	3⅛	3¾	4½	5	
No. 55 Per dozen	$11 70	12 60	14 40	15 30	17 10	

Packed as Ordered

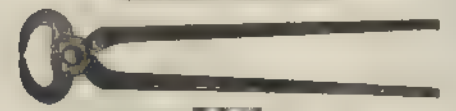
BOTTOM FULLERS

Solid forged steel, oil tempered. Average length 4 to 5 in. Square shank for 1 inch hole in anvil.

Size, in.	¼	⅜	½	⅝	¾	⅞
Wt, about, lbs	2	2	2	2¼	2½	2¾
No. 56. Per dozen	$9 00	9 00	9 00	9 90	9 90	9 90
Size, in.	1	1¼	1½	1¾	2	
Wt., about, lbs.	2⅞	3¼	3¼	3¾	4¼	
No. 56. Per dozen	$11 70	12 60	14 40	15 30	17 10	

Packed as Ordered

CUTTING NIPPERS



Crucible cast steel, full polished

Nos.	24B	24A	24
Length, inches	10	12	14
Per dozen	$19 20	24 00	28 80

Half Dozen in a Box

HOOF PARERS

Heller's

Crucible cast steel, full polished

Nos.	23A	23
Length, inches	12	14
Per dozen	$24 00	28 80

Half Dozen in a Box

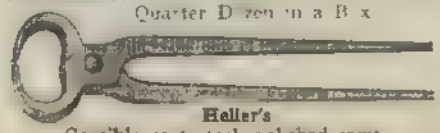
SHOEING PINCERS

Heller's

Crucible cast steel, polished jaws

Nos.	20B	20
Length, inches	13	14
Per dozen	$22 00	24 00

Quarter Dozen in a Box



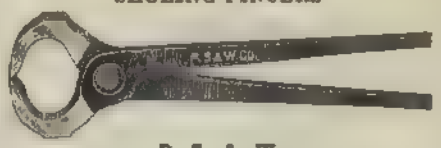
Heller's

Crucible cast steel, polished jaws

Nos.	21A	21
Length inches	10	12
Per dozen	$8 00	18 00

Half Dozen in a Box

SHOEING PINCERS



P. S. & W.

Solid steel, with polished jaws. The jaws are forged and the handles are wrought

Nos.	16	12	14
Length, inches	10	12	14
Per dozen	$9 50	10 50	12 00

Twelfth Dozen in a Box

FARRIERS' TONGS

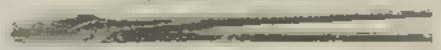
Heller's

Solid steel, drop forged, oil finished, recessed jaws

No. 40—		
Length, inches	14	16
Per dozen	$8 00	6 20

Packed as Ordered

BLACKSMITHS' TONGS



Forged steel, oil finished, straight lipped

Nos.	1332	1333	1334	1336
Length, inches	16	18	20	24
Per dozen	$7 75	8 75	9 75	12 50

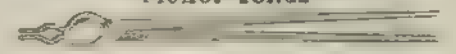
Packed as Ordered

Drop forged, oil finish, curved lip

Nos.	812	820	243	423	421
Size [illegible] in	½x18	½x20	½x24	¾x24	1x24
Per dozen	$10 80	12 60	15 00	16 20	17 40

Packed as Ordered

PICKUP TONGS



Drop forged, improved pattern, oil finish

No. 1—Length, inches	30
Per dozen	$12 00

Packed as Ordered

COMMON TONGS

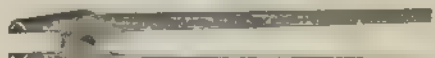
Drop forged, grooved jaws, oil finish. For general use. The first dimensions given is the opening of jaw when handles are parallel as in cut and is the size of iron, tongs are best adapted for

Nos.	014	814	114	316	320
Size, length, in.	0x14	¼x14	¾x14	⅜x16	⅜x20
Per dozen	$7 50	7 50	7.50	8.50	9.50

Nos.	220	824	424	724	124
Size length in	½x20	½x24	½x24	½x24	1x24
Per dozen	$9 50	11 00	11 00	13 00	13.00

Packed as Ordered

"V" TONGS



Drop forged, oil finish. Will hold round, square hexagonal or octagon shaped material The first size represents the size material they will take.

Nos.	116	318	118
Size and length, in.	¼x16	⅜x18	½x18
Per dozen	$9 00	9 00	10 20

Nos.	824	324	241
Size and length, in.	⅝x24	¾x24	1x24
Per dozen	$12 60	13 80	16 20

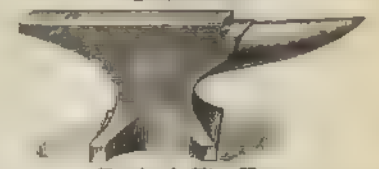
Packed as Ordered

ANVILS

PETER WRIGHT'S

Solid wrought iron, faced with Sheffield shear steel, converted from Swedish iron. The back, face and end are all in one solid piece

Blacksmiths'



Farriers' Clip Horn

Weight, lbs.	80 to 90	100 to 110	120 to 130
Per lb	$		
Weights, lbs.	140 to 150	160 to 180	200 to 225
Per lb	$		
Weights, lbs.	250 to 300	350 to 400	400 to 450
Per lb	$		

Advance on Weights under 80 lbs.

70 to 79 lbs Advance per lb. 1c.
60 to 69 lbs Advance per lb 1½c
50 to 59 lbs Advance per lb 2c.
Under 50 lbs Advance per lb 3c.

Advance for Farriers' clip horn over regular Blacksmith pattern, per lb., 1 cent.

Advance for Farriers' anvils without clip horn over regular Blacksmith pattern, per lb., ½ cent

STANDARD

Standard wrought iron body with tool steel face

Blacksmiths'

Weights, lbs.	70 to 80	90 to 100	110 to 120
Per lb.	$		
Weights, lbs.	130 to 140		150 to 160
Per lb.	$		
Weights, lbs.	180 to 200		225 to 250
Per lb	$		

Advances on Weights of Standard under 80 Pounds and for Farriers' Anvils

70 to 79 lbs Advance per lb. ½c.
60 to 69 lbs. Advance per lb. 1c.
50 to 59 lbs Advance per lb. 2c.
40 to 49 lbs Advance per lb 3c
30 to 39 lbs Advance per lb 5c
20 to 29 lbs Advance per lb 8c.
10 to 19 lbs. Advance per lb 15c
Farriers plain horn Advance per lb ½c
Farriers' clip horn Advance per lb. 1c

Standard Dimensions of Size of Face to Weight of Anvil

Face	Weight	Hardy Hole
3½x12½ in.	80 to 90 lbs.	⅞ in
3½x13½ in.	100 to 110 lbs.	⅞ in
3¾x15 in.	125 to 135 lbs.	1 in.
4 x15½ in.	140 to 145 lbs.	1⅛ in.
4 x16 in	150 to 160 lbs.	1⅛ in.
4¼x16½ in	170 to 180 lbs.	1⅛ in
4¼x17 in	190 to 200 lbs.	1⅛ in.
4½x18 in	250 lbs.	1⅛ in.
5 x20 in	300 lbs.	1¼ in.
5½x22 in	350 lbs.	1⅜ in.
6 x24 in	400 lbs	1⅜ in

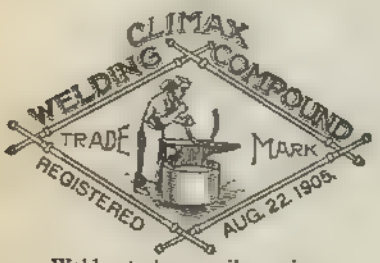
WELDING COMPOUND

CHERRY HEAT

Welds iron to iron, steel to steel, or malleable iron to steel. The highest grade of welding flux.

Nos.	5	25
Pound boxes	5	25
Per pound	$0 15	12

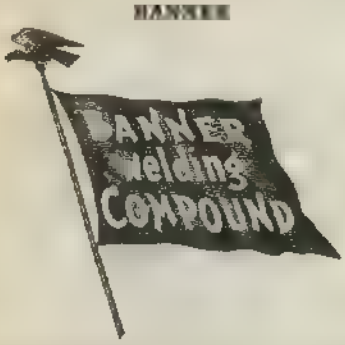
CLIMAX



Welds steel as easily as iron

Nos.	015	[illegible]
Pound boxes	5	25
Per pound	$0.15	.12

BANNER



Welds axles, springs, steel tire plows, cutlery and all kinds of welding.

Nos.	15	35
Pound boxes	5	25
Per pound	$0 12	.11

BRAZING COMPOUND

BANNER

For brazing steel tubing, stampings, band saws, wire in rubber tire, automobile joint, copper, brass and bronze brazing. Will braze and flux at extreme low heat point.

Nos.	05	025
Pound boxes	5	25
Per pound	$0.58	.54

REFINED BORAX

Lump	Per pound	$0 20
Pulverized	Per pound	.20

In Barrels of about 300 Pounds

BLACKSMITHS' APRONS

Strings are fastened with patent rivets, smooth heads on both sides. Heavy mule skin with bib

Ideal

No. 2838—Size 28x38 in....Per dozen $30.00

Packed as Ordered

TUYERE IRONS

Clark's

Cast iron, with ball valves

Nos.	2	3
Weight, lbs.	21	26
Each	$1.55	1.80

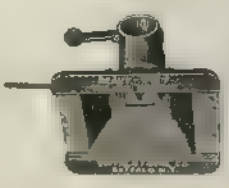
Packed as Ordered

Duck Neck

Cast iron, single faced

No. 20—Weight each 15 lbs.. .....Each $1.00

Packed as Ordered



Eccentric blast valve is a new invention of inestimable value to the smith. The rising and falling action of this valve gives as large and as small a fire as desired, and affords a larger clearance for ashes and clinker than is obtained with any other device. It will heat a bar fully 12 in. long as quickly and with the same blast as a 7-in bar in the best standard tuyeres heretofore made. Fire pot is deep and heavily reinforced with metal to insure against burning out.

VULCAN

Size 12½x14x4⅛ in., weight 56 lbs. Each $6 00

BLAST GATES

Heavy cast iron frame, heavy gauge steel plate slides. Designed for opening, closing and regulating the blast in air-conveying pipes for various duties.

Nos.	2	2½	3	3½	4
Inside dia. in	1¾	2¼	2¾	3¼	3¾
Wgt., lbs.	1½	2	2½	3	5
Each	$1 00	1.25	1 50	1.75	2 00
Nos.	**5**	**6**	**8**	**10**	**12**
Inside dia. in.	4¾	5¾	7⅞	9⅞	11⅞
Wgt., lbs.	7	10	20	30	33
Each	$2 25	2.50	3.50	5.00	6.50

BELLOWS

MOULDERS'

A strong sheepskin bellows, for moulders' use

Nos.	10M	12M	14M
Size, inches	10	12	14
Per dozen	$14.00	18.00	24.00

Packed as Ordered

HAND

Well made from a good grade of sheepskin

Nos.	6	7	8	10
Size, inches	6	7	8	10
Per dozen	$8 00	9.00	10.00	13.00

Packed as Ordered

PAINTERS' OR SANDING

Well made from best quality sheepskin. Used by painters for sanding and by moulders for facing.

No. 108—10 inches.....Per dozen $36 00

Packed as Ordered

BUFFALO PORTABLE FORGES

AGRICULTURAL

No. 150

No. 151

Designed for the lighter class of outdoor work, such as rivet heating, light repairing and for farmers' general use. Rigid construction and will not rust out. The gearing action is practically noiseless.

No. 150—With shield, diameter of hearth 18 inches, diameter of fan 8 in., weight 70 lbs.....Each $14 00

No. 151—With half hood, diameter of hearth 18 inches, diameter of fan 8 in., weight 75 lbs.....Each $16.00

One in a Crate

DOUBLE BIT AXES

*BLACK PRINCE

Hand Made; Dead Black Finish; Labeled

Black Prince Axes are Hand Hammered, **Hand Tempered** and **Hand Whetted.** The Bits are Made of Highest Grade, Crucible Steel, Drawn Thin and **Tempered Hard** to a Fine Cutting Edge. Soft Steel Body. The **Eye is Punched** from Solid Steel, and will not Split, Crack nor Break, as Axes having a Bolt or Wedge through the **Eye is Tapered** from the Outer to the Inner Opening, thus holds the **Handle Firmly and Prevents it Splitting.**

In Ordering Axes on this Page, Give Numbers and Weights Only

DIAMOND EDGE Wedge Used in All Our Handled Axes. Full Description on Page 3.

UNHANDLED

No. BP850—WESTERN PATTERN

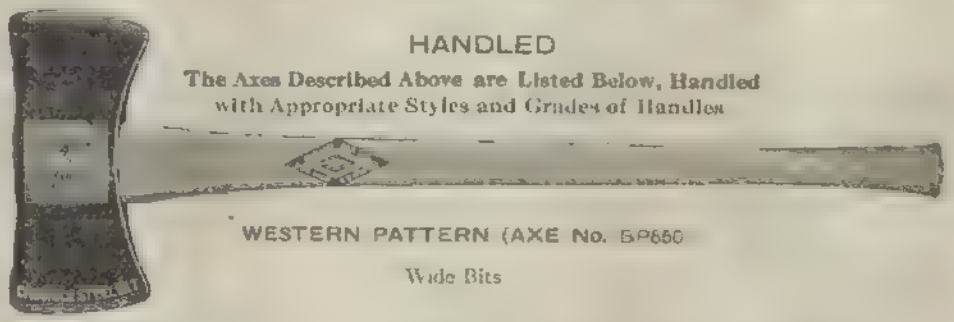
	Wide Bits			
Weights, Assorted ...	3 4	3½ 4½	4 5	4½ 5½
Per Dozen..	$28.00	28.50	29.00	29.50

No. BP950—CALIFORNIA REVERSIBLE PATTERN

	Wide Bits			
Weights, Assorted....	3 4	3½ 4½	4 5	4½ 5½
Per Dozen..	$28.00	28.50	29.00	29.50

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



HANDLED

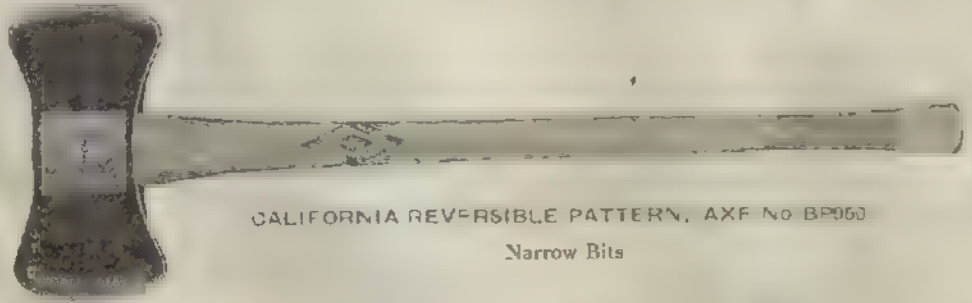
The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

WESTERN PATTERN (AXE No. BP850

Wide Bits

Kind of Handle	Weights, Assorted	3,4	3½ 4½	4,5	4½/5½
No. BP850AA With No. AA Norlagh Diamond Octagon	Per Dozen	$35 00	$35 50	$36.00	$36 50
No. BP850XAA With No. XAA Norlagh Diamond Octagon	"	35.50	36 00	36.50	37 00
No. BP850BB With No. BB Norlagh Diamond Oval	"	35 00	35 50	36.00	36 50
No. BP850CC With No. CC Favorite Octagon	"	34 00	34 50	35 00	35 50
No. BP850DD With No. DD Favorite Oval	"	34 00	34 50	35 00	35 50
No. BP850EL With No. EL Top Top Octagon	"	33 00	33 50	34 00	34 50
No. BP850FF With No. FF Top Top Oval	"	33.00	33 50	34 00	34 50
No. BP850LL With No. LL Metal City Oval	"	32 00	32.50	33 00	33 50
No. BP850LLO With No. LLO Metal City Octagon	"	32 00	32.50	33 00	33.50
No. BP850LOD—With No. LOD Live Oak Oval, Oak	"	**33.00**	**33.50**	**34.00**	**34.50**

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



CALIFORNIA REVERSIBLE PATTERN, AXE No BP950

Narrow Bits

Kind of Handle	Weights, Assorted	3/4	3½ 4½	4/5	4½ 5½
No. BP950AA With No. AA Norlagh Diamond Octagon	Per Dozen	$35 00	$35 50	$36 00	$36 50
No. BP950XAA With No. XAA Norlagh Diamond Octagon	"	35.50	36.00	36 50	37 00
No. BP950BB With No. BB Norlagh Diamond Oval	"	35 00	35 50	36 00	36 50
No. BP950CC With No. CC Favorite Octagon	"	34.00	34.50	35.00	35 50
No. BP950DD With No. DD Favorite Oval	"	34.00	34 50	35 00	35 50
No. BP950EE With No. EE Top Top Octagon	"	33 00	33 50	34 00	34 50
No. BP950FF With No. FF Top Top Oval	"	33 00	33 50	34 00	34 50
No. BP950LL With No. LL Metal City Oval	"	32.00	32.50	33 00	33 50
No. BP950LLO With No. LLO Metal City Octagon	"	32.00	32 50	33 00	33 50
No. BP950LOD—With No. LOD Live Oak Oval, Oak	"	**33.00**	**33.50**	**34.00**	**34.50**

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

DOUBLE BIT AXES

★ DIAMOND EDGE

Hand Made; Black Forge Finish; Etched

DIAMOND EDGE Axes are Recognized as Being the Best Made. They are **Hand Tempered** by an Improved Process. Every Axe **Carefully Tested** Before Leaving the Factory. This practically Prevents Axes with Flaws or Soft Cutting Edges Reaching the User. It Also Insures Uniformity of Temper Without which an Axe will not Hold a Fine Sharp Cutting Edge. Highest Grade Crucible Steel Bit, Carefully Tempered and Ground; Soft Steel Body. The Eyes are Punched from Solid Steel and [illegible] Axes with Rolled or Welded Eye. **The Eye is Tapered** from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting.

★ BLACK PRINCE

Hand Made; Dead Black Finish; Labeled

Black Prince Axes are Hand Hammered, **Hand Tempered** and **Hand Whetted.** The Bit is of Highest Grade, Crucible Steel, Drawn Thin and **Tempered Hard** to Hold a Fine Cutting Edge. Soft Steel Body. The Eye is Punched from Solid Steel, and will not Stretch nor Break, as Occurs with Axes Having a Rolled or Welded Eye. **The Eye is Tapered** from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting.

In Ordering Axes on this Page, Give Numbers and Weights Only

UNHANDLED

No. DEH875 MICHIGAN PATTERN
Wide Bits—Narrow Body

Weights, Assorted.	3 4	3½ 4½	4 5
Per Dozen	$30 00	32 50	31.00

No. BP875 MICHIGAN PATTERN
Wide Bits—Narrow Body

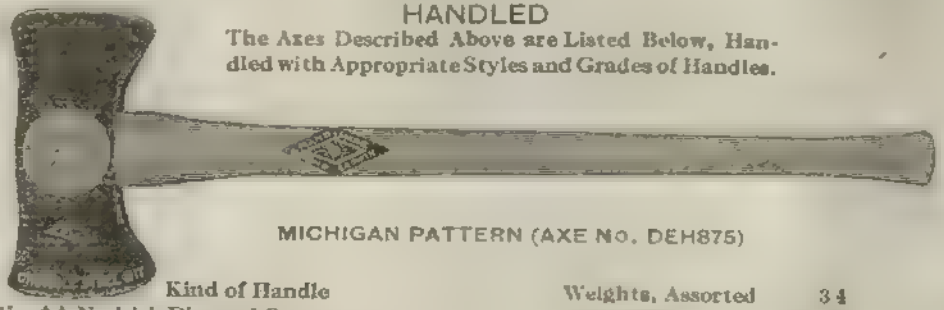
Weights, Assorted.	3 4	3½ 4½	4 5
Per Dozen	$28 00	25 50	29 00

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles.

★ *DIAMOND EDGE* Axe Wedge Used in all our Handled Axes. Full Description on Page [illegible].



MICHIGAN PATTERN (AXE NO. DEH875)

Kind of Handle	Weights, Assorted	3 4	3½ 4½	4 5
No. DEH875AA — With No. AA Norleigh Diamond Octagon	Per Dozen	$37 00	$37 50	$38 00
No. DEH875XAA — With No. XAA Norleigh Diamond Octagon	"	37 50	38 00	38 50
No. DEH875BB — With No. BB Norleigh Diamond Oval	"	37 00	37 50	38 00
No. DEH875CC — With No. CC Favorite Octagon	"	36 00	36 50	37 00
No. DEH875DD — With No. DD Favorite Oval	"	36 00	36 50	37 00
No. DEH875EE — With No. EE Tip Top Octagon	"	35 00	35 50	36 00
No. DEH875FF — With No. FF Tip Top Oval	"	35 00	35 50	36 00
No. DEH875LL — With No. LL Mound City Oval	"	34 00	34 50	35 00
No. DEH875LLO — With No. LLO Mound City Octagon	"	34 00	34 50	35 00
No. DEH875LOD — With No. LOD Live Oak Oval, Oak	"	35 00	35 50	36 00

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

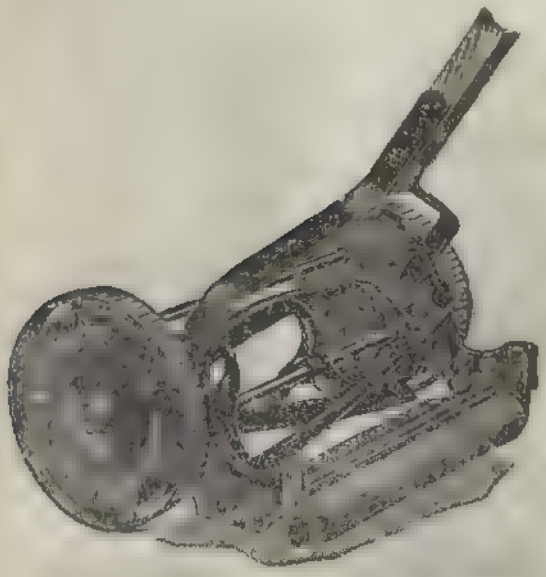
MICHIGAN PATTERN (AXE No. BP875)

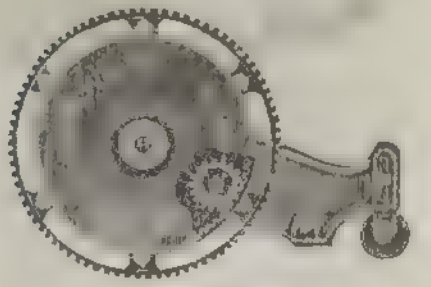
Kind of Handle	Weights, Assorted	3 4	3½ 4½	4/5
No. BP875AA — With No. AA Norleigh Diamond Octagon	Per Dozen	$35 00	$35 50	$36.00
No. BP875XAA — With No. XAA Norleigh Diamond Octagon	"	35 50	36 00	36.50
No. BP875BB — With No. BB Norleigh Diamond Oval	"	35 00	35 50	36 00
No. BP875CC — With No. CC Favorite Octagon	"	34 00	34 50	35 00
No. BP875DD — With No. DD Favorite Oval	"	34 00	34 50	35 00
No. BP875EE — With No. EE Tip Top Octagon	"	33 00	33 50	34.00
No. BP875FF — With No. EF Tip Top Oval	"	33 00	33 50	34.00
No. BP875LL — With No. LL Mound City Oval	"	32 00	32 50	33.00
No. BP875LLO — With No. LLO Mound City Octagon	"	32 00	32.50	33.00
No. BP875LOD — With No. LOD Live Oak Oval, Oak	"	33 00	33 50	34.00

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

LAWN MOWERS

*BOB WHITE—PLAIN BEARING





Double Gearing

Crucible Tool Steel Reel Knives; Malleable Iron Reel Braces; Solid Steel Reel Axle; Cast Side Plates; Heavy Cast Iron Drive Wheels and Bed Plate; Tool-Steel Bed Knife Riveted to Bed Plate; Malleable Roller Brackets; Hardwood Roller; Steel Front Brace; Wrought Steel Handle Braces; Fitted with Combination Clutch and Pinion with Sliding Pins on Each Side of the Machine; 3½ foot Varnished Hardwood Handle and Cross Bar. Side Plates are Cupped Around the Rim, which Not Only Improves the Appearance but gives it Strength as well. The Front Brace is set High to Permit the Grass to Come in Contact with the Blades without Being Bent Forward.

*BOB WHITE—PLAIN BEARING

Low Wheel; Three Blades

Pale Green and Red with Gold Bronze Stripes. A Light Running Mower, with Material so Placed as to Obtain the Greatest Strength without Unnecessary Weight.

Diameter of Drive Wheels 8 inches; Diameter of Reel 6 inches; Reel Axle ½ inch; Front Brace ½ inch. Adjustable to Cut Grass to Lengths of ½ to 1¼ inches. Cuts Grass Standing 5 to 6 inches High.

Width of Cut, Inches	12	14	16	18
Extreme Width, Inches	15¼	17¼	19¼	21¼
Weight Boxed, Lbs.	40	42	44	64
Each	$6.30	6.50	6.70	7.00

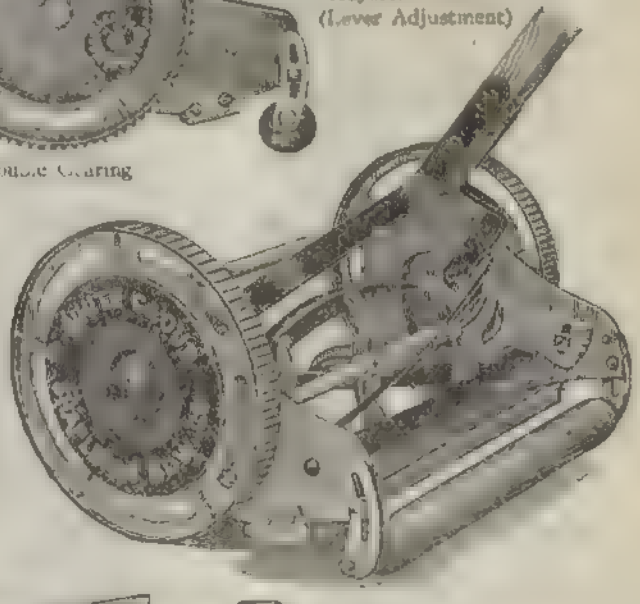
One in a Box; Handles Half Dozen in a Bundle

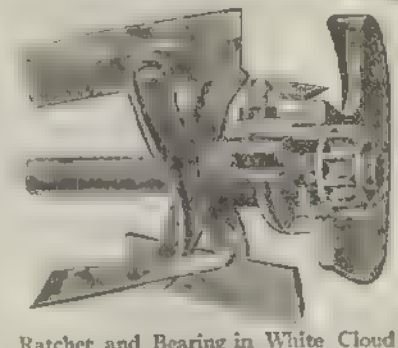
LAWN MOWERS

*WHITE CLOUD—PLAIN BEARING

Adjustable Reel—
(Lever Adjustment)

Double Gearing





Ratchet and Bearing in White Cloud

Adjustable Reel; Crucible Tool-Steel Knives; Malleable Iron Reel Braces; Solid Steel Reel Axle and Tubular Front Brace; Heavy Cast Iron Drive Wheels, Gear Casings and Bed Plate; Steel Side Plates; Malleable Iron Reel Braces and Roller Brackets; Tool-Steel Bed Knife Riveted to Stationary Bed Plate; Hardwood Roller, Wrought Steel Handle Braces, Fitted with Combination Clutch and Pinion with One Sliding Pin on Each Side of the Machine; 3½ foot Varnished Hardwood Handle with Cross Bar Set in Malleable Iron Socket and Bolted. All Bearings Carefully Machined. The Drive Wheels are Made with an Open Space between Rim and Gear Part, which Not Only Improves the Appearance but Makes the Machine Practically No Less when in Operation. On the Inside of each Side Plate there is a Grass Shield which Knocks Down the High Grass and Prevents its Winding Around the Journals.

*WHITE CLOUD—PLAIN BEARING

High Wheel; Four Blades

Blue and White with Gold Bronze Stripes. The Perfection of Lawn Mower Construction in Plain Bearing Machines.

Diameter of Driving Wheels 10 inches; Diameter of Reel 6 inches. Reel Axle ½ inch. Front Brace ¾ inch with ⅜ inch Rod Inside of Pipe. Adjustable to Cut Grass to Lengths of ¾ to 1½ inches. Cuts Grass Standing 5 to 7 inches High.

Width of Cut, Inches	14	16	18
Extreme Width, Inches	19¼	21¼	23¼
Weight Boxed, Lbs.	58	60	63
Each	$11.50	12.50	13.00

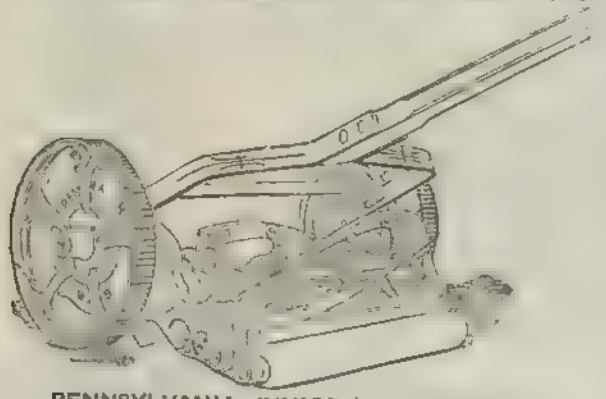
One in a Box; Handles Half Dozen in a Bundle

Lawn Mower Parts Are Not Carried in Stock; Can be Furnished Only by Shipping Direct From Factory
Use Diamond Oil and *DIAMOND EDGE* Lawn Mower Paste

LAWN MOWERS

PENNSYLVANIA

Heavy Cast Iron Side Plates, Wheels and Gear Casings; Crucible Tool Steel Self Sharpening, Revolving Reel Blades and Stationary Knife, Malleable Iron Roller Brackets and Roller Brackets, Adjustable Hardwood Handle, Painted Green and Red with Gold Bronze Striping.



PENNSYLVANIA JUNIOR—BALL BEARING

High Wheel

10 inch Drive Wheels; Five Blades; 6 inch Cylinders; Adjustable to Cut Grass to Lengths of ⅝ to 1½ inches; Cuts Grass Standing 5 to 6 inches High.

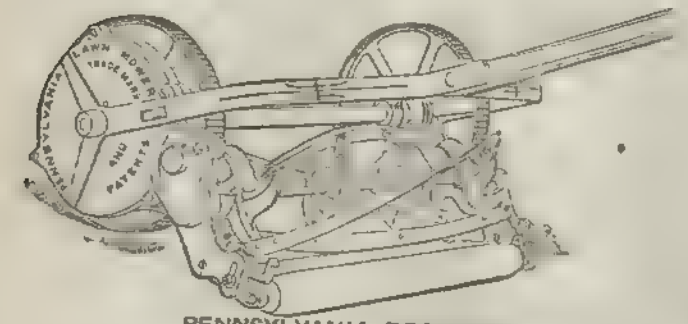
Nos.	JH15	JH17	JH19	JH21
Width of Cut, Inches	15	17	19	21
Extreme Width, Inches	22	24	26	28
Weight Boxed, Lbs.	71	74	77	80
Each	$25 00	28 00	31 00	34 00
	39 00	43.70	48.40	53.10

Low Wheel

8 inch Drive Wheels; Five Blades; 5½ inch Cylinders; Adjustable to Cut Grass to Lengths of ⅝ to 1½ inches; Cuts Grass Standing 4 to 5 inches High.

Nos.	JL14	JL16	JL18
Width of Cut, Inches	14	16	18
Extreme Width, Inches	21	23	25
Weight Boxed, Lbs.	62	65	68
Each	$17 00	19 00	21 00
	26 60	29.70	32 80

One in a Box; Handles Bundled



PENNSYLVANIA REGULAR
High Wheel

10½ inch Drive Wheels; Four Blades; 6½ inch Cylinders; Adjustable to Cut Grass to Lengths of ⅝ to 1½ inches; Cuts Grass Standing 5 to 6 inches High.

Nos.	PH15	PH17	PH19	PH21
Width of Cut, Inches	15	17	19	21
Extreme Width, Inches	22	24	26	28
Weight Boxed, Lbs.	78	82	85	97
Each	$25 00	28 00	31 00	34 00
	35 00	39 20	43 40	47.60

One in a Box; Handles Bundled

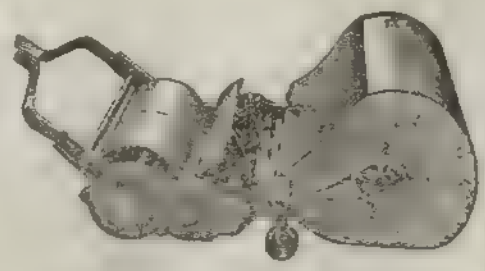
†PUTTING GREEN MOWERS

PENNSYLVANIA

Heavy Cast Iron Side Plates, Wheels and Gear Casings; Crucible Tool Steel Self Sharpening; Revolving Reel Blades and Stationary Knife, Malleable Iron Roller Brackets and Roller Brackets, Adjustable Hardwood Handle, Painted Green and Red with Gold Bronze Striping.

Complete With Grass Box

Cut Shows Mower with Grass Box Detached



Cut Shows Mower with Grass Box Attached

Note

The Grass Boxes or Catchers which are furnished with these Mowers are composed of two parts, the box proper [illegible] and the Detachable Clip [illegible] the Grass Box [illegible] Both [illegible] made of Steel Metal with Wood [illegible] and are Quickly Attached and Detached.

The method of making putting greens with Golf Links wavy or undulating has revived a demand for [illegible], originally in Great Britain, and more recently in this country, for the old roller type, forward cut lawn mowers.

The Pennsylvania Putting Green is an exact model of the **Pennsylvania Grand Horse Mower,** modified only to operate by hand.

The Stationary Knife is Bolted Rigidly to the Frame, making the Adjustment entirely with the Cylinder. The Journal Boxes or Cylinder Bearings are Self-Aligning, Insuring a Perfect Cutting Edge the Entire Length of the Blades. This Mower can be set to cut 3-16ths of an inch, and is ideal for Putting Greens, Tennis Courts, Cricket Creases, and other work requiring an exceptionally close and smooth cut. It can also be used as an edge trimmer for the ordinary lawn. The Front Wood Roller better supports the Machine in mowing terraces, but can be readily removed if desired, leaving only the casters as supports.

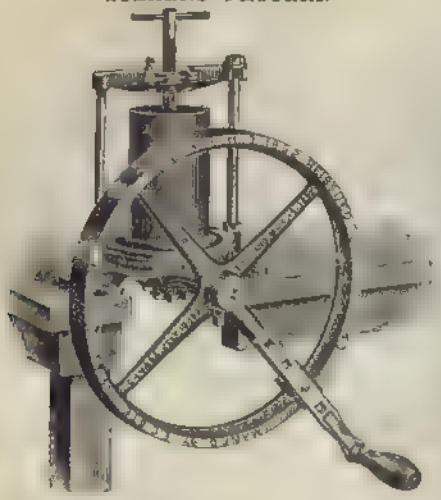
All Blades in this Mower are Crucible Tool Steel, Oil Tempered and Hardened.

Diameter of Rollers 7 inches; Diameter of Cylinder 5½ inches; Six Blades.

Width of Cut, Ins.	†14	†16	†18
Shipping Weight	95	110	134
Each	$54 50	62 00	69 00

Items Marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Philadelphia, Pa.

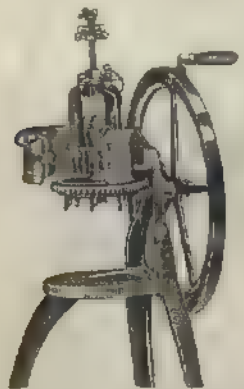
BONE CUTTERS
STEARNS' PATTERN



No. 4BW—For small flocks. Hopper holds 2½ lbs., enough for 60 to 70 hens. Cuts a hopper full of bone in two or three minutes. Is quickly attached to bench or table. Automatic feed with balance wheel. Each $14.50

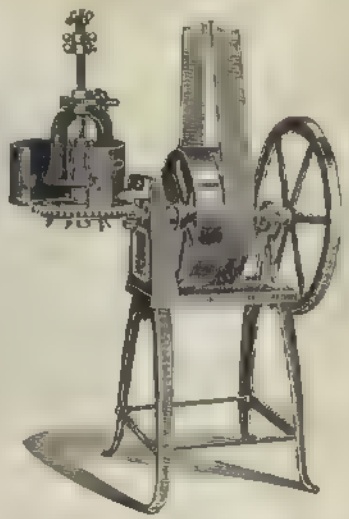
MANN PATTERN

No. 5BM—For flocks up to 100 hens. Has a large heavy balance wheel and improved automatic feed. Mounted on strong stand, with shelf. Cylinder 6 inches diameter, 4 inches deep. Four perfectly tempered knives. .....Each $17 50



No. 7M—For flocks up to 200 hens. Has heavy balance wheel which gives it a great momentum, making it easy to cut very hard bone. Has hinged hopper and strong iron stand, with shelf. Cylinder 7¼ inches diamter, 5¼ inches deep. Six perfectly tempered knives. .....Each $20.00

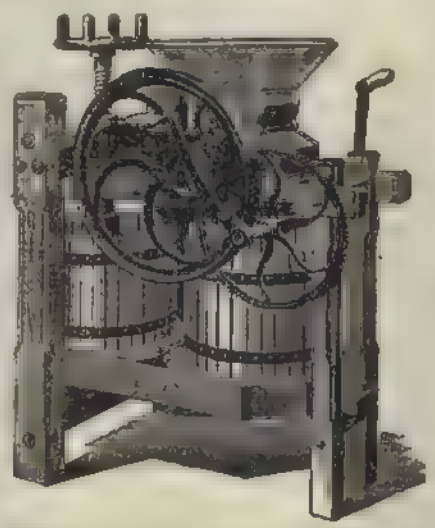
BONE CUTTERS
MANN PATTERN



No. 11M—For either hand or power. Has large hopper and table. Cylinder 9 inches in diameter, 7 inches deep. Capacity about 100 pounds per hour at 350 R. P. M., 1 to 1½ H. P. Diameter of pulleys 15 in., 3½ in. face.....Each $44 00

EAGLE CIDER MILLS

Varnished hardwood frame securely bolted, removable hopper and lever, cast iron yoke, balance wheel and journals. Steel press screw with cast iron socket and top wheel with hand grips, steel shaft, cast iron roll casing with one plain and two corrugated adjustable rolls, triple geared, cast iron crank with wood grip. Two plain hardwood tubs with heavy staves riveted to wrought iron bands, hardwood trough, neatly painted striped and varnished

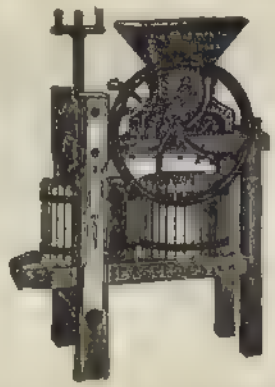


Senior—Capacity 6 to 8 barrels of cider per day. 48 in. high, 19½x40¼ in. trough, 15½ in. inside diameter tubs, 2x22 in. press screw, 40 in. lever, 13x15 in. hopper. Floor space required 29x45 in. Weight 420 lbs. Each $32 00

One in a Crate

EAGLE CIDER MILLS

Medium—Capacity 3 to 6 barrels of cider per day. 40 in. high, 14⅛x29½ in. trough, 12 in. inside diameter tubs, 1⅜x20⅛ in. press screw, 30 in lever, 14x14 in. hopper. Floor space required 22x35 in. Weight 240 lbs Each $24 00



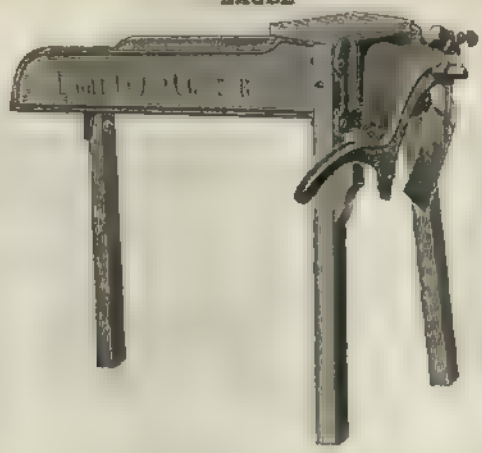
Junior—Capacity 2 to 4 barrels of cider per day. 43 in. high, 12⅛x28⅛ in. trough 10⅛ in. inside diameter tub, 1⅛x18⅛ in. press screw, 29 in. lever, 13x14 in. hopper. Floor space required 20x34 in. Weight 190 lbs. Each $18 00

CAN'T CLOG CIDER MILL AND WINE PRESS

Can't Clog Single Tub. Grinds either small or large apples. Roller can be removed for washing, by simply removing the two cap screws and sliding the roller out. Capacity 1 to 2 barrels a day. Tub 12 in. high, 12 in. inside diameter, 1¼ in. steel press screws. Weight 145 pounds. Each $12.50

FEED CUTTERS

EAGLE

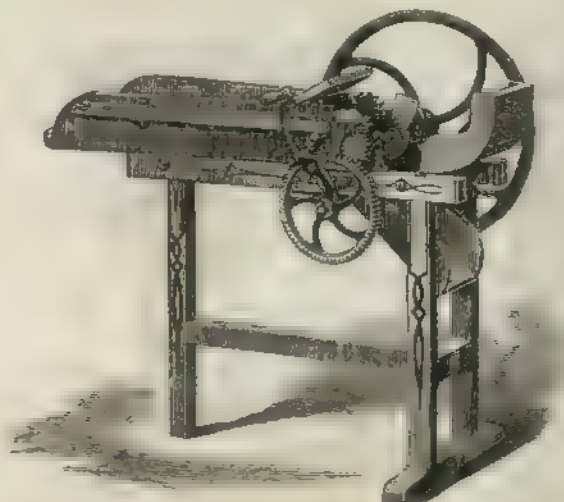


No. 00—Lever, heavy hardwood frame, steel knife, with 10½ inch cutting edge, adjustable gauge to regulate any length up to 2¼ inches.....Each $5 00
Shipped Knocked Down

EAGLE

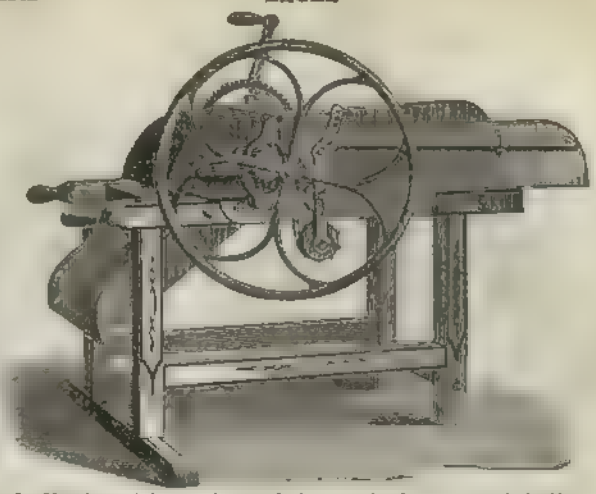
No. KD—Heavy hardwood frame, 11 inch spiral knife, heavy balance wheel, makes three cuts to one turn of the crank. By simply changing the ratchet, cuts four different lengths. Each $15 00
Shipped Knocked Down

EAGLE

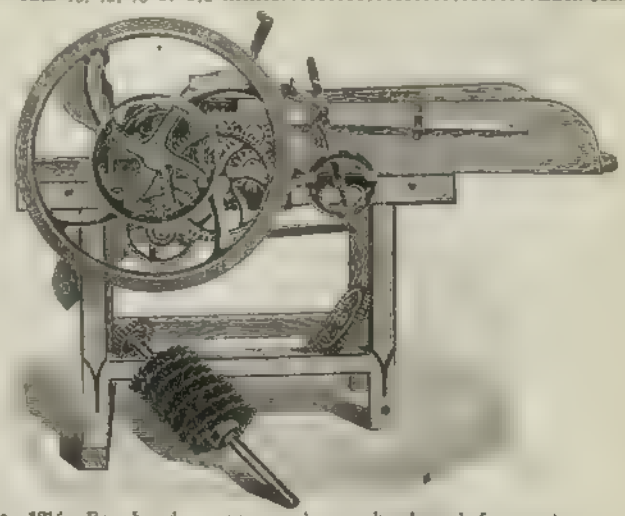


No. 0—Hardwood frame, heavy balance wheel, 8 inch knife; has self-feed geared motion 4 to 1, is a light-running cutter for hay or straw; cuts ½ or ⅝ inches.....Each $14 50
Shipped Set Up
NOTE—No 0 is not adapted for cutting corn stalks or fodder.

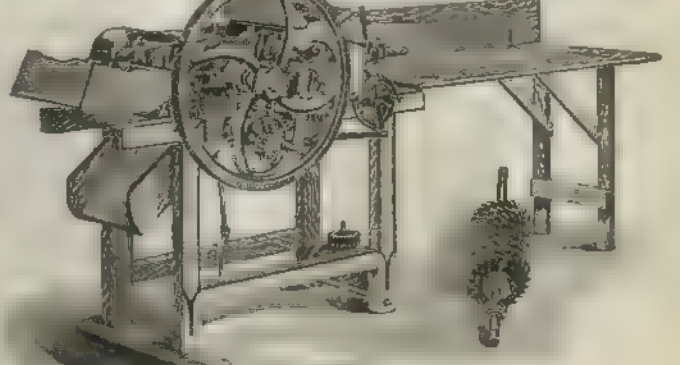
EAGLE



No. 8—Hardwood frame, heavy balance wheel, one 8 inch knife, cuts ⅜, ⅝, ⅞ or 1⅛ inches.....Each $18.00



No. 12½—For hand or power; heavy hardwood frame, two heavy 11 inch knives, heavy balance wheel with pulley attached, cuts ⅛, ¾ and 1⅛ inches.....Each $32 00



No. 13—Has two 13 inch knives. Capacity two to three tons green fodder per hour. Lengths of cut ⅝ to 1⅛ inches. Speed required 350 to 500 revolutions per minute. Safety flywheel and gear controlled by lever. Pulley 8" by 6" face. Power required from 2 to 4 horsepower.....Each $40 00

No. 15—Similar to No. 13 but larger, has two 15 inch knives. Capacity three to four tons green fodder per hour....Each 50.00

No. 20—An extra large machine for cutting large quantities of feed. Has two 20 inch knives, with 1⅝ shaft, safety flywheel geared and controlled by lever. Knives have long downward shearing cut. Cuts ⅝ to 1½ inches. Power required 4 to 6 horsepower. Capacity six to eight tons green fodder per hour.....Each 75.00
Shipped Set Up

MOTO METER.

BOYCE.

The Boyce Moto Meter is fast becoming a necessity to the man who is careful with his car. Not only is it a beautiful ornament but its practical use is at once apparent to the driver. It is a guaranteed thermometer so protected that the danger of breaking is practically eliminated. By observing this device from the driver's seat one can ascertain at a glance the running condition of his motor, making it easy to know the temperature of water in radiator in cold or warm weather and gives ample warning of inferior lubrication, insufficient water in radiator or improper gasoline mixture.

	Each
DeLuxe Model Boyce Moto Meter	$22.50
In lots of 10	21.00
In lots of 20	18.90
Standard Model Boyce Moto Meter	15.00
In lots of 10	14.00
In lots of 20	12.60
Truck and Tractor Model Boyce Moto Meter	15.00
In lots of 10	14.00
In lots of 20	12.60
Universal Model Boyce Moto Meter	11.25
In lots of 10	10.50
In lots of 20	9.45
Junior Model Boyce Moto Meter	7.50
In lots of 10	7.00
In lots of 20	6.30
Ford Type Boyce Moto Meter—Including radiator cap	5.25
In lots of 10	4.90
In lots of 20	4.41
Midget Model Boyce Moto Meter	3.75
In lots of 10	3.50
In lots of 20	3.15

Note—Lots of 10 or 20 assorted Boyce Moto Meters take the 10 or 20 lot price.

PRIMERS.

ENGINE DASH.

Designed to prime motor from dash and facilitate starting in cold weather. Will keep motor running until warm or until it picks up from carburetor.

Sight feed, which may be regulated by means of needle valve, shows exact amount of gasoline being used. Primer may be utilized for decarbonizing cylinders by feeding kerosene through intake manifold while motor is in action.

Easily attached by tapping manifold for ¼-inch standard iron pipe, inserting coupling and then connecting primer. No soldering required.

	Each
No. EDP—Complete with tubing and compression coupling; finished in polished brass; weight, ¾ lb.	$2.80

AUTO HEATERS. 5259

UTILITY.

How UTILITY PROTECTED HEATER Is Attached to the Exhaust

The Utility Auto Heater converts the heat of the exhaust into use in heating your auto. The heater core is protected by a handsome nickel plated rail, which serves as a foot rail and at the same time makes it impossible to burn or scorch wraps, robes, etc. By means of a conveniently located damper the amount of heat desired can be easily gauged. Easily installed, only two small holes have to be cut in floor of car.

A practical, well made heater which assures warmth for winter driving; safe from any danger of back pressure or disagreeable odors so common in heaters where the fittings are not accurately machined and trued to insure tight connection.

	Each
No. 20—Utility Protected Heater; for all cars; length, 29 inches; weight, 14 lbs.	$28.50
No. 125—Utility Front Seat Heaters; especially designed for roadsters or driving compartments of large cars or trucks, or for the tonneau of small cars; length, 17 inches; weight, 10¼ lbs.	17.80
No. 9—Utility Jr. Heater; designed for use on Ford and other small cars; finished in black enamel; length, 17 inches; weight each, 10¼ lbs.	12.80

STEER WARMS.

Steer Warms consist of two neat leather covered grips, one for each hand, which lace on to the steering wheel at any place convenient for driving. Special resistance wires are cleverly arranged between two copper plates in such a way that a very small current is sufficient to keep the grips warm. Safety demands a firm grip of the steering wheel which you cannot get with cold fingers. Steer Warms keep your fingers limber with only a pair of light gauntlets on, which enables you to grip the wheel tight on the coldest winter days, giving you a safe feeling even while driving over pavements slippery with ice.

	Per Pair
No. FSW—Steer Warms; special type for Ford car	$7.00
In lots of 10 pair or more	6.50
No. RSW—Steer Warms; for all cars with standard 6 or 12 volt battery	10.50
In lots of 10 pair or more	9.75

Vises

Solid Box Vises

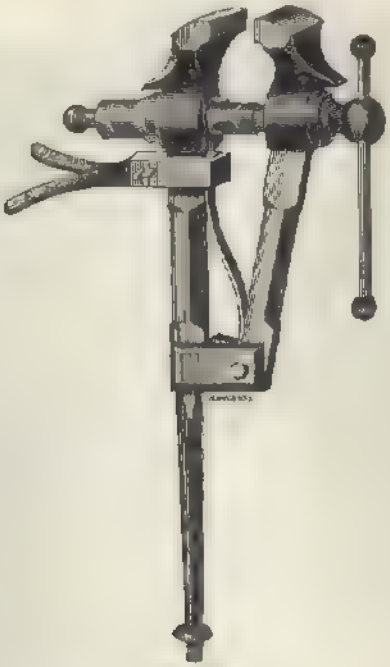


Fig. 65

No.	25	3⅜	inch jaw,	each	$12 00	No.	105	6	inch jaw,	each	$23 00
No.	30	3½	inch jaw	each	1. 00	No.	110	6¼	inch jaw	each	24 00
No.	35	4	inch jaw	each	10 00	No.	115	6¼	inch jaw	each	25 00
No.	40	4	inch jaw	each	10 50	No.	120	6½	inch jaw	each	26 00
No.	45	4	inch jaw	each	11 00	No.	125	6	inch jaw	each	27 50
No.	50	4	inch jaw	each	1. 50	No.	130	6¾	inch jaw.	each	29 00
No.	55	4	inch jaw	each	12 00	No.	135.	6	inch jaw	each	31 50
No.	60	4	inch jaw	each	13 00	No.	140.	7	inch jaw	each	33 00
No.	65	5	inch jaw	each	14 00	No.	145.	7	inch jaw	each	35 00
No.	70	5	inch jaw	each	15 00	No.	150.	7	inch jaw	each	36 00
No.	75.	5¼	inch jaw	each	16 00	No.	160.	7¼	inch jaw	each	41 50
No.	80	5¼	inch jaw	each	17 50	No.	170	7½	inch jaw	each	44 50
No.	85	5¼	inch jaw	each	18 50	No.	180	8	inch jaw	each	47 00
No.	90	5½	inch jaw	each	20 00	No.	190	8	inch jaw	each	53 30
No.	95	5¾	inch jaw,	each	21 00	No.	200	8	inch jaw	each	56 00
No.	100	6	inch jaw	each	22 00						

Discount

Vises

Champion Vise

Style C

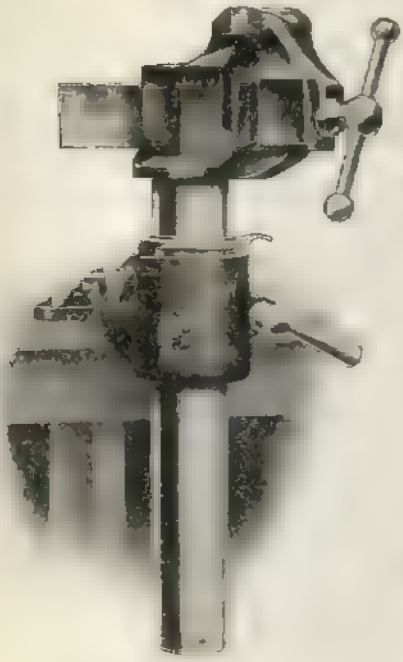


Fig 753
Swivel Base, Solid Jaw

Simple—Durable—Accurate

The Champion Vise will easily handle any odd-shaped work as well as ordinary shapes

It is more quickly and easily positioned than any other vise The work can be kept in proper position before the eyes of the workman in the best light without the necessity of stooping or other tiresome and awkward attitudes at the bench A long stride toward correct work

Style C

No	Style	Width of Jaw, Inches	Jaw Opens, Inches	Weight, Pounds	Price
0	C	1¼	2	15	$ 7 00
1	C	2¼	3	31	9 00
2	C	3	4	38	12 50
3	C	3½	5	63	15 50
4	C	4	5½	74	19 00
5	C	4½	7	95	23 00
6	C	5	8	128	26 00

Style D

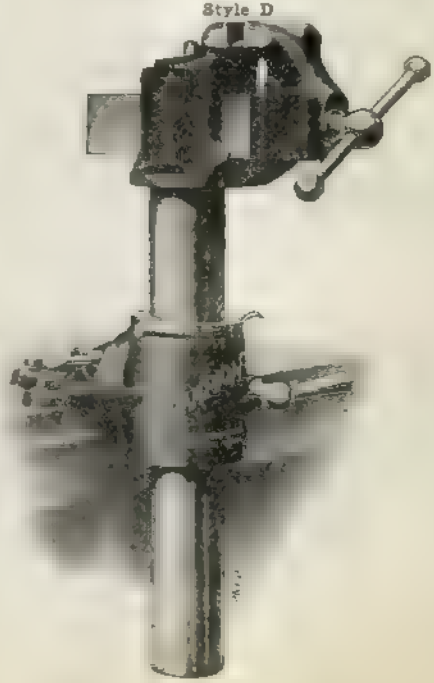
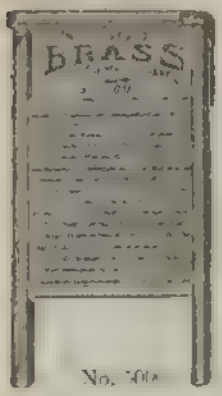


Fig 754
Swivel Base, Swivel Jaw, Complete Universal

Style D

No.	Style	Width of Jaw, Inches	Jaw Opens, Inches	Weight, Pounds	Price
0	D	1¼	2	15	$ [illegible]
1	D	2¼	3	32	11 00
2	D	3	4	40	14 00
3	D	3½	5	65	18 00
4	D	4	5½	78	22 00
5	D	4½	7	95	25 00
6	D	5	8	128	28 00

WASH BOARDS



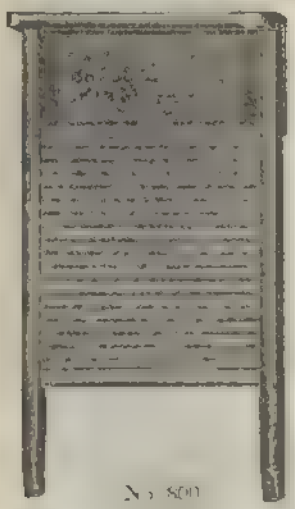
No. 5000

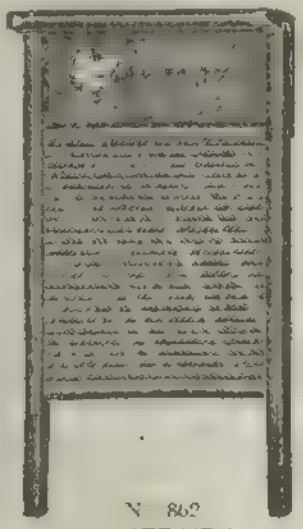
Frame and Soap Box Securely Nailed; Rubbing Surface and Back Mortised Into Frame; Top Board Dovetailed to Top of Frame, Frame Sandpapered after Board is made up.

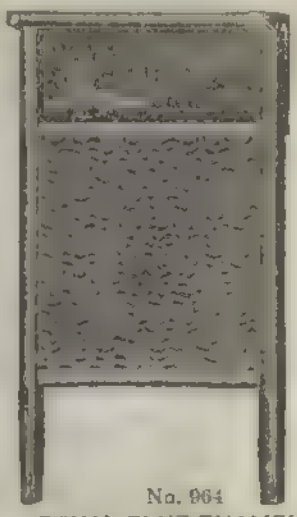
BRASS — Per Dozen

No. 5000 -Single; 10⅝x11½ in.; Spiral Crimped, Brass Surface; Finished Wood Frame; Protector Top; Truss Back; Weight per Dozen 33 lbs. **$13.00**

Half Dozen in a Crate


No. 800
BRASS KING


No. 862
WHITE HEN


No. 964
ROYAL BLUE ENAMEL

No. 816
BABY NATIONAL

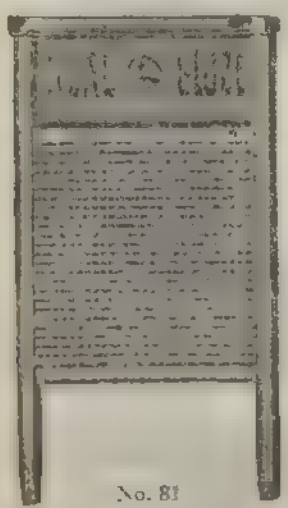
Per Dozen

No. 800 Brass King; Single Brass Surface; Spiral Crimp; Washing Surface 10⅞x12 in.; Open Back with Five Truss Rods; Size Overall 12½x25 in.; Weight per Dozen 33 lbs. **$14 40**

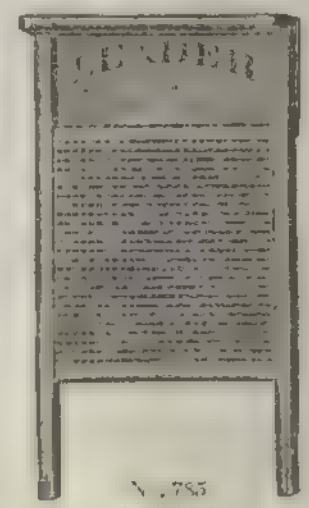
No. 862—White Hen; Extra Heavy Single Glass Surface; Spiral Crimp; Washing Surface 10⅝x12 in.; Open Back; Size Overall 12½x24½ in.; Weight per Dozen 62 lbs. Will stand Hot or Cold Water and never wear out 8.50

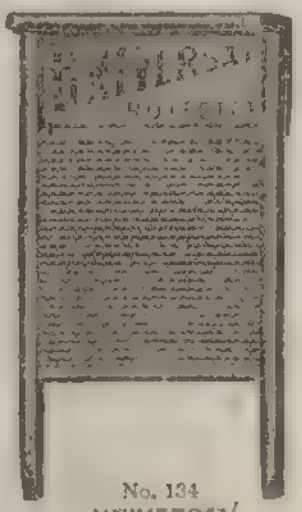
No. 816—Baby National; Pail Size; Convenient for Washing Handkerchiefs and other small articles; Fits any Pail; Single Steel Surface, Washing Surface 6⅞x11¼ inches; Plain Back; Size Overall 7¼x13 inches; Weight per Dozen 7 lbs. 2.20

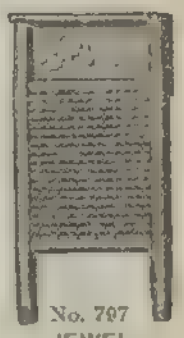
Half Dozen in Crate


No. 81
SEAL GLOBE

No. 760
BANNER GLOBE


No. 785
LEADER


No. 134
UNIVERSAL


No. 797
JEWEL

Per Dozen

No. 81 Seal Globe; Double Zinc Surface; Globe Crimp on One Side, Plain Crimp on the other; Wide Back; Washing Surface 10⅞x11 in., Size Overall 12½x24 in.; Weight per Dozen 35 lbs. **$11.00**

No. 760—Banner Globe; Single Zinc Surface; Globe Crimp; Washing Surface 10⅞x11 in.; Ventilated Back, Size Overall 12½x24 in.; Weight per Dozen 34 lbs. 8 00

No. 785 -Leader; Single Zinc Surface; Globe Crimp; Washing Surface 10x10⅝ in., Plain Back; Size Overall 11¼x23¼ in.; Weight per Dozen 26 lbs. 7 50

No. 134 Universal; Single Zinc Surface, Globe Crimp, Washing Surface 12x23 inches; Ventilated Back; Size Over All 13½x27 inches; Weight per Dozen 46 lbs. 10 50

No. 797 Jewel, Particularly convenient for Washing Handkerchiefs and other small Articles in Wash Bowl or Pail; Single Zinc Surface; Globe Crimp, Washing Surface 6⅞x7¼ in., Plain Back, Size Over all 7¼x13 in., Weight per Dozen 16 lbs. 3 70

Half Dozen in a Crate

CLOTHES BASKETS

WILLOW

Selected White Willow; Wood Bottom; Plain Finish; Heavy Body; Strongly Braided Rim and Handles.

Nos.	18	19	20
Height, Inches	12	13	14
Size Top, Inches	23x19	24½x20	25x21
Size Bottom, Inches	18x10¾	20x11½	22x12
Weight per Dozen, Lbs.	70	80	90
Per Dozen	$30 00	36 00	42 00

Per Nest

No. WC3 Nest of Three; Sizes 17 to 19; Smallest Size, Top 25x17 inches, Bottom 18x8 inches, Height 10 inches; Largest Size, Top 27x19 inches, Bottom 20x11¾ inches, Height 13 inches; Weight per Nest 20 lbs. $8 00

No. WC5—Nest of Five; Sizes 17 to 21; Smallest Size, Top 25x17 inches, Bottom 14x8 inches, Height 10 inches; Largest Size, Top 27x23 inches, Bottom 24x13¾ inches, Height 15 inches; Weight per Nest 37 lbs..... 16 00

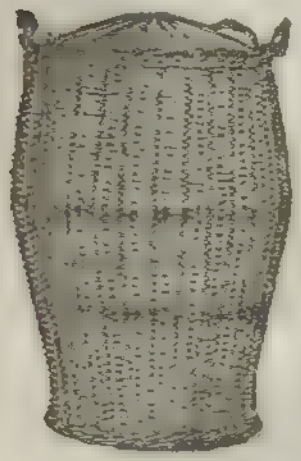
SPLINT

Light Tough Splint Body and Bottom, Double Braid Top, Double Wood Bail and Strap, Stapled Handle

Nos.	1	2
Height, Inches	9½	10½
Top, Inches	28x16	30x16
Weight per Dozen, Lbs.	60	65
Per Dozen	$9 00	$10.50

Loose

CLOTHES HAMPERS

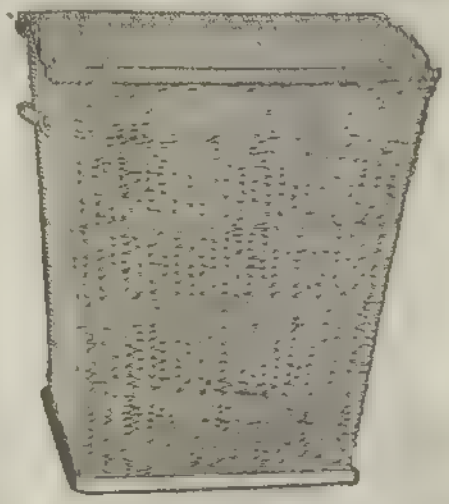


ROUND WILLOW

Woven White Willow, Painted Green Stained Reed and Ribbed Wood Top, Heavy Willow Handles.

Nos.	14	15
Height, Inches	26	28
Top, Inches	17	19
Bottom, Inches	11	12
Weight per Dozen, Lbs.	75	80
Per Dozen	$40 00	44 00

Loose



SQUARE WILLOW

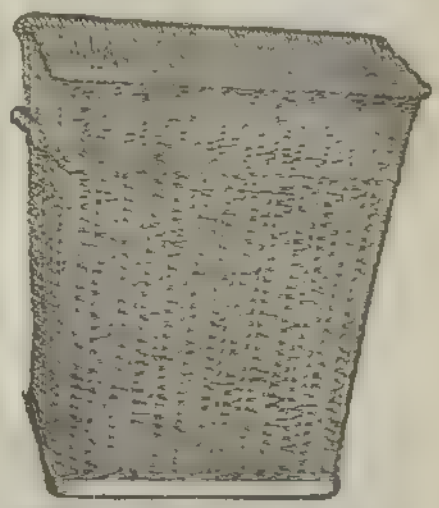
Woven White Willow Body, Hardwood Bottom, Heavy Willow Handles

Nos.	48	58	68
Height, Inches	24	27	30
Top, Inches	18x13	21x16	24x19
Bottom, Inches	15x10	17x12	19x14
Wt. per Dozen, Lbs.	95	140	185
Per Dozen	$56 00	80 00	110 00

Loose

Per Nest

No. 456S Nest of 3; Nos. 48 to 68, Weight 85 lbs. $21 00



SQUARE RATTAN AND WILLOW

Cut Pattern Split Rattan and White Bleached Willow Body, Hardwood Bottom, Strong Willow Side Handles.

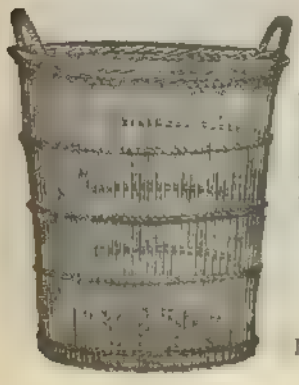
Steel Cover Moves in Galvanized Loops and Hinges.

Size	4	5	6
Height, Inches	24	27	30
Top, Inches	16½x13½	21x16	24x19
Bottom, In.	14½x21½	16½x14½	18½x16½

Per Nest

No. 456B—Nest of 3; Sizes 4, 5 and 6, Weight 35 lbs.....$18 50

OFFICE BASKETS



Plain Round Straight Stick Cane

Nos.	64	65	66
Height, Inches	12½	13½	14
Top, Inches	11½	12½	13
Bottom, Inches	8½	9½	10½
Wt. per Doz., Lbs.	12	13	14
Per Dozen	$15 50	18.50	21.00

Loose

Per Nest

No. 6465—Nest of 3; Nos. 64, 65, 66; Weight 1½ lbs.....$4 50

Willow Bottom, Close Woven Body of White Bleached Willow.

Nos.	57	58	59
Height, Inches	11	12	13
Top, Inches	11	12	13
Bottom, In.	8	9	10
Wt. Doz., Lbs.	12	15	18
Per Doz.	$16 50	22 00	26.50

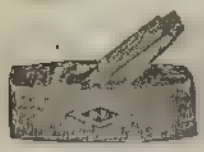
Loose

WOOD BENCH PLANES

NOTE—When Ordering Give Number and Size.

★DIAMOND EDGE

Smooth



Bodies Made of the Finest Seasoned Beechwood, Finished, Smooth and Varnished, Specially prepared for the DIAMOND EDGE Plane; the Double Cutters are Forged from the Highest Grade Tool Steel, Oil Tempered, Hand Sharpened and Polished, Ready for Use. Polished Steel Start.

Each

No. DEX3—Assorted 2, 2⅛, 2¼ inch Cut; 8 inches Long; Weight Each 2 lbs. **$1.70**

One in a Box.

Handled Smooth

Bodies Made of the Finest Seasoned Beechwood, Finished Smooth and Varnished, Specially Prepared for the DIAMOND EDGE Plane; the Double Cutters are Forged from the Highest Grade Tool Steel, Oil Tempered, Hand Sharpened and Polished, Ready for Use. Polished Steel Start.

Each

No. DEX5—Assorted 2, 2⅛, 2¼ inch Cut; 10¼ inches Long; Weight Each 2¾ lbs. **$2.80**

One in a Box.

Jack

Bodies Made of the Finest Seasoned Beechwood, Finished Smooth and Varnished, Specially Prepared for the DIAMOND EDGE Plane; the Double Cutters are Forged from the Highest Grade Tool Steel, Oil Tempered, Hand Sharpened and Polished, Ready for Use. Polished Steel Start.

Each

DEX15—Assorted 2, 2⅛, 2¼ inch Cut; 16 inches Long; Weight Each 4¼ lbs. **$1.90**

One in a Box.

Razee Jack

Bodies Made of the Finest Seasoned Beechwood, Finished Smooth and Varnished, Specially Prepared for the DIAMOND EDGE Plane; the Double Cutters are Forged from the Highest Grade Tool Steel, Oil Tempered, Hand Sharpened and Polished, Ready for Use. Polished Steel Start.

Each

No. DEX17—Assorted 2, 2⅛, 2¼ inch Cut; 16 inches Long; Weight Each 3½ lbs. **$2.00**

One in a Box.

Fore

Bodies Made of the Finest Seasoned Beechwood, Finished Smooth and Varnished, Specially Prepared for the DIAMOND EDGE Plane; the Double Cutters are Forged from the Highest Grade Tool Steel, Oil Tempered, Hand Sharpened and Polished, Ready for Use. Polished Steel Start.

Each

No. DEX21—Assorted 2⅜, 2½, 2⅝ inch Cut; 22 inches Long; Weight Each 6½ lbs. **$2.70**

One in a Box.

Jointer

Bodies Made of the Finest Seasoned Beechwood, Finished Smooth and Varnished. Specially Prepared for the DIAMOND EDGE Plane; the Double Cutters are Forged from the Highest Grade Tool Steel, Oil Tempered, Hand Sharpened and Polished, Ready for Use. Polished Steel Start.

Assorted Cuts, 2⅛, 2⅜, 2¾ inch

Nos.	DEX27	DEX27¼	DEX27½
Length, Inches	25	28	30
Weight Each, Lbs.	7½	8	8½
Each	$3 00	3 30	4.00

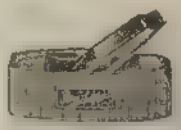
One in a Box.

WOOD BENCH PLANES

NOTE—When ordering Give Number and Size.

★BRIDGE

Smooth



Selected and Seasoned Beechwood, Plain Finish; Polished Steel Start; Forged Steel Double Cutters, Hand Sharpened and Polished Ready for Use.

Each

No. B3—Assorted 2, 2⅛, 2¼ inch Cut; 8 inches Long; Weight Each 2¼ lbs. **$1.70**

One in a Package.

Handled Smooth

Selected and Seasoned Beechwood, Plain Finish; Polished Steel Start; Forged Steel Double Cutters, Hand Sharpened and Polished Ready for Use.

Each

No. B5—Assorted 2, 2⅛, 2¼ inch Cut; 9½ inches Long; Weight Each 2¾ lbs. **$3.10**

One in a Package.

Jack

Selected and Seasoned Beechwood, Plain Finish; Polished Steel Start; Forged Steel Double Cutters, Hand Sharpened and Polished Ready for Use.

Each

No. B15—Assorted 2, 2⅛, 2¼ inch Cut; 16 inches Long; Weight Each 3¾ lbs. **$1 80**

One in a Package.

Razee Jack

Selected and Seasoned Beechwood, Plain Finish; Polished Steel Start; Forged Steel Double Cutters, Hand Sharpened and Polished Ready for Use.

Each

No. B17—Assorted 2, 2⅛, 2¼ inch Cut; 16 inches Long; Weight Each 3¼ lbs. **$2.20**

One in a Package.

Fore

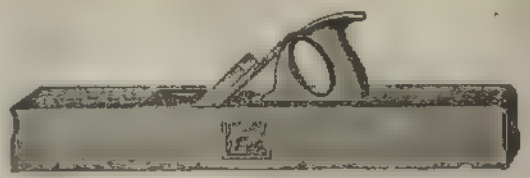
Selected and Seasoned Beechwood, Plain Finish Polished Steel Start, Forged Steel Double Cutters, Hand Sharpened and Polished Ready for Use.

Each

No. B21—Assorted 2⅜, 2½, 2⅝ inch Cut; 22 inches Long; Weight Each 6½ lbs. **$3.00**

One in a Package.

Jointer



Selected and Seasoned Beechwood, Plain Finish, Polished Steel Start; Forged Steel Double Cutters, Hand Sharpened and Polished ready for use.

Assorted Cuts 2½, 2⅝, 2¾ inch

Nos.	B27	B27¼
Length, Inches	26	28
Weight Each, Lbs.	7	8
Each	$3 30	3 50

One in a Package.

WOOD BENCH PLANES

SCIOTO

NOTE—When Ordering, Give Both Number and Size.

Smooth

Length 8 inches; Beechwood; Plain Finish Cutters; Forged from Tool Steel, Tempered and Sharpened; Black Start.

Length 8 inches — Each

No. 01—Single Iron, 2, 2⅛, 2¼ inch Cut; Weight 2¼ lbs... $1 20 .70

No. 03—Double Irons, 2, 2⅛, 2¼ inch Cut; Weight 2½ lbs. .. 1.50 .90

Loose.

Handled Smooth

Length 9½ inches; Beechwood; Plain Finish Cutters, Forged from Tool Steel, Tempered and Sharpened; Black Start. Each

No. 05.—Single Iron, 2, 2⅛, 2¼ inch Cut; Weight 4 lbs.... . $2 90 1 75

Loose.

Jack

Length 16 inches; Beechwood; Plain Finish Cutters, Forged from Tool Steel, Tempered and Sharpened; Black Start.

Each

No. 012—Single Iron, 2, 2⅛, 2¼ in. Cut; Wt. 4½ lbs..... $1.40 .85

No. 015—Double Irons, 2, 2⅛ 2¼ inch Cut; Weight 4¾ lbs..... 1.70 1.00

Loose.

Razee Jack

Length 16 inches; Beechwood; Plain Finish Cutters, Forged from Tool Steel, Tempered and Sharpened; Black Start.

Each

No. 017—Double Irons, 2, 2⅛ 2¼ inch Cut; Weight 3½ lbs. $2.00 1.20

Loose.

Fore

Length 22 inches; Beechwood, Plain Finish Cutters, Forged from Tool Steel, Tempered and Sharpened; Black Start. Each

No. 021—Double Irons, 2⅜, 2⅛, 2⅝ inch Cut; Weight 7 lbs. $2.80 1.70

Loose.

Jointer

Beechwood; Plain Finish Cutters, Forged from Tool Steel Tempered and Sharpened; Black Start.

Double Irons, Assorted, 2⅛, 2⅜, 2⅝ inch Cut

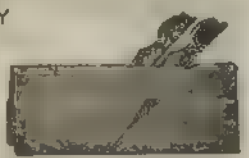
Nos...	027	027½	027½
Length, Inches	26	28	30
Weight Each, Lbs.	7¼	7½	8
Each	$1 90	1 90	2.15
Loose	3 00	3.20	3 60

FANCY WOOD PLANES

OHIO TOOL COMPANY

Nosing

For Rounding the Edges of Steps, etc.



Beechwood, Plain Finish; Forged Steel Cutters, Tempered, Ground and Polished; Ready for Use.

No. 90F—One Iron

Width Cutter, Inches..	⅝	1	1⅜	1⅝
Weight Each, lbs.	1⅛	1¼	1⅜	1⅝
Each.....	$1.80	1.80	1.80	2.20

No. 91F—Two Irons

Width of Cutter, Inches...	⅝	⅞	1	1⅛	1¼	1⅜
Weight Each, Lbs.....	1¼	1½	1½	1½	1⅝	1⅝
Each.....	$2.40	2.40	2.40	2 40	2 40	2.60

Loose

FANCY WOOD PLANES

OHIO TOOL COMPANY

NOTE—When Ordering, Give Both Number and Size.

Skew Rabbet

No. 116F—Length 6½ inches; Used for Rabbeting all Kinds of Work to Secure a Tight Joint. Beechwood, Plain Finish; Forged Steel Cutters, Tempered, Ground and Polished; Ready for Use.

Width Cutter, In. .	⅛	¼	⅜	½	⅝	¾	⅞	1	2
Weight Each, lbs.. .	½	¾	⅞	1	1⅛	1¼	1½	1¾	2
Each.....	$1.50	1.50	1.50	1.50	1 50	1.40	1 60	1.80	2.00

Loose.

Jack Rabbet

With Handle and Two Spur Cutters; length 16 inches; Used for Rabbeting all Kinds of Work to Secure a Tight Joint. Beechwood, Plain Finish; Forged Steel Cutters, Tempered Ground and Polished; Ready for Use. Each

No. 119F —With Centered Handle; Cuts 1⅛, 1¾, 2 in.... .. $3.80

No. 119½F—With Handle Set to One Side; Cuts 1⅛, 1¾, 2 inches 4.20

Loose; Weight about 2½ lbs.

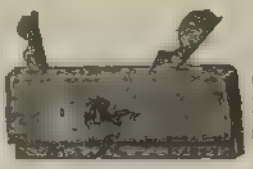
Fillister

For Rabbeting, where Accurate Depth and Width are Required; Cuts Any Desired Width up to 1½ inches, 9½ inches Long. Beechwood, Plain Finish; Forged Steel Cutters, Tempered, Ground and Polished; Ready for Use.

Each

No. 53F—With Brass Side Stop and Spur Cutter..... $3.10

Loose; Weight about 2½ lbs.



Dado

For Grooving; with Spur Cutter and Depth Gauge; Length 9½ inches. Beechwood, Plain Finish; Forged Steel Cutters, Tempered, Ground and Polished; Ready for Use.

Each

No. 47F—With Brass Side Stop, ⅜, ½, ⅝, ¾ & ⅞ in. Cut..... $2.50

Loose; Average Weight 1½ lbs.

Dado

For Grooving; with Spur Cutter and Depth Gauge; Length 9½ inches. Beechwood, Plain Finish, Forged Steel Cutters, Tempered, Ground and Polished; Ready for Use.

Each

No. 48F—With Brass Screw Stop, ⅜, ½, ⅝, ¾, and ⅞ inch Cut.. $3.30

Loose; Average Weight 1½ lbs.

Board Matching Planes in Pairs

For Tonguing and Grooving Work of Any Kind. The Tonguing Plane Cuts the Tongue and the Grooving Plane Plows the Groove.

Without Handles or Side Plates; Separate

Beechwood, Plain Finish; Forged Steel Cutters, Tempered, Ground and Polished, Ready for Use. Per Pair

No. 75F—Cutter ½, ⅝, ¾, ⅞, 1 inch; 9½ inches Long; Average Weight per Pair 2¼ lbs..... ..... $3.30

One Pair Wrapped in Paper

Tooth

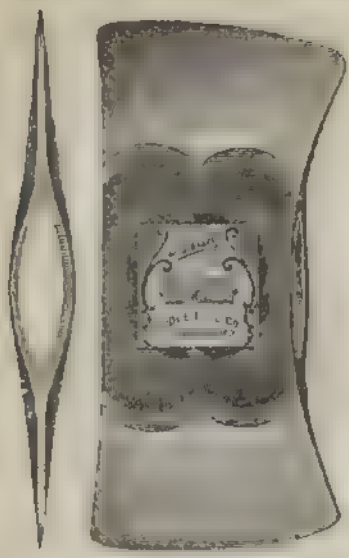
Used by Furniture Makers, Cabinet Makers and Desk Manufacturers, as well as in Job Shops, for Scratching or Roughing Work so Glue will Take a Firm Hold. Beechwood, Plain Finish; Forged Steel Cutters; Tempered, Ground and Polished; Ready for Use. Each

No. 30F—Single Iron, 2⅛ inch Cut; 7 inches Long..... $2.20

Loose; Weight Each 1½ lbs.

DOUBLE BIT AXES

*BRIDGE



Extra Quality Crucible Steel Bit Carefully Tempered, Ground and Sharpened, Ready for Use. Soft Steel Body; The Eye is Punched from Solid Steel and will Not Scratch nor Break, as Occurs with Axes Having a Rolled or Welded Eye. The Eye is Tapered from the Outer to the Inner Opening, the Best Possible Construction to Prevent Handle Breaking.

A First Class Axe in Every Respect and we Recommend it Most Satisfactory for all Purposes.

In Ordering Axes on this Page, Give Numbers and Weights Only

DIAMOND EDGE Axe Wedge Used in all Our Handled Axes. Full Description on Page 3.

UNHANDLED

Painted Red, Gold Bronzed Border and Labeled; Polished Bit and Head

No. B850— *BRIDGE WESTERN PATTERN
Wide Bits

Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
Per Dozen	$25 00	25 50	26 00	26 50

Gun Metal Finish; Labeled

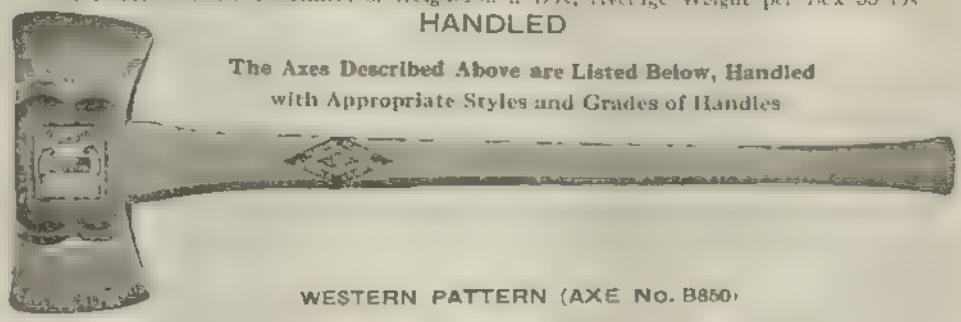
No. BB850 *BRIDGE—WESTERN PATTERN
Wide Bits

Weights, Assorted	3 4	3½ 4½	4 5
Per Dozen	$25 00	25 50	26.00

One Dozen of Each Assortment of Weights in a Box, Average Weight per Box 55 Lbs.

HANDLED

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

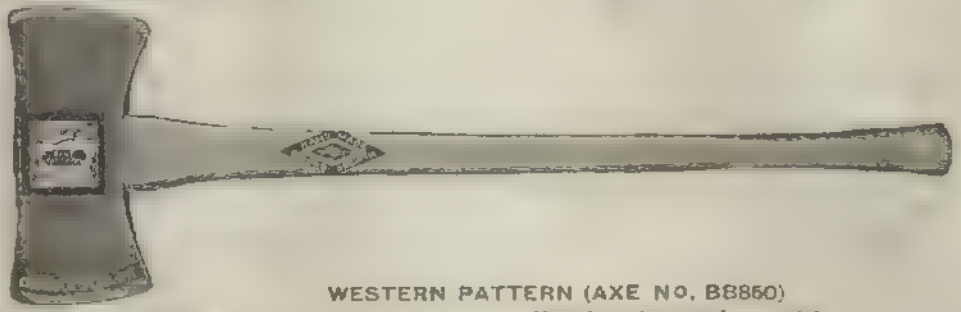


The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

WESTERN PATTERN (AXE No. B850)

Kind of Handle	Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
No. B850AA —With No. AA Norleigh Diamond Octagon	Per Dozen	$32.00	$32.50	$33 00	$33 50
No. B850AAA —With No. AAA Norleigh Diamond Octagon	"	32.50	33 00	33 50	34 00
No. B850BB —With No. BB Norleigh Diamond Oval	"	32 00	32 50	33 00	33 50
No. B850CC —With No. CC Favorite Octagon	"	31.00	31 50	32 00	32 50
No. B850DD —With No. DD Favorite Oval	"	31.00	31 50	32.00	32 50
No. B850EE —With No. EE Tip Top Octagon	"	30.00	30.50	31 00	31.50
No. B850FF —With No. FF Tip Top Oval	"	30.00	30.50	31.00	31 50
No. B850LL —With No. LL Mound City Oval	"	29.00	29.50	30.00	30.50
No. B850LLO —With No. LLO Mound City Octagon Plain End	"	29 00	29 50	30 00	30 50
No. B850LOD With No. LOD Live Oak Oval, Oak	"	30.00	30.50	31.00	31 50

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

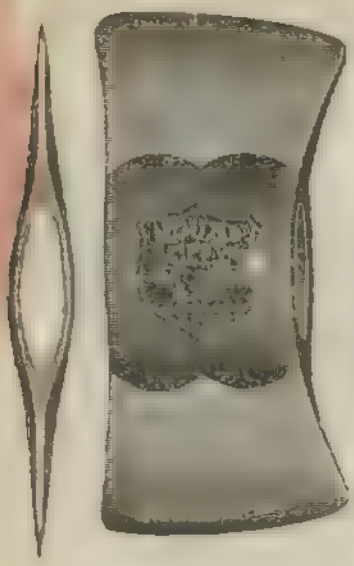


WESTERN PATTERN (AXE NO. BB850)

Kind of Handle	Weights, Assorted	3 4	3½ 4½	4 5
No. BB850AA —With No. AA Norleigh Diamond Octagon	Per Dozen	$32 00	$32 50	$33 00
No. BB850AAA —With No. AAA Norleigh Diamond Octagon	"	32 50	33 00	33 50
No. BB850BB —With No. BB Norleigh Diamond Oval	"	32 00	32 50	33 00
No. BB850CC —With No. CC Favorite Octagon	"	31 00	31.50	32 00
No. BB850DD —With No. DD Favorite Oval	"	31 00	31.50	32 00
No. BB850EE —With No. EE Tip Top Octagon	"	30 00	30.50	31.00
No. BB850FF —With No. FF Tip Top Oval	"	30 00	30.50	31 00
No. BB850LL —With No. LL Mound City Oval	"	29 00	29.50	30 00
No. BB850LLO —With No. LLO Mound City Octagon	"	29 00	29 50	30 00
No. BB850LOD —With No. LOD Live Oak Oval, Oak	"	30 00	30.50	31.00

One Dozen of Each Assortment of Weights in a Crate. Average Weight per Crate 75 Lbs.

DOUBLE BIT AXES



*MOUND CITY

MOUND CITY
TRADE MARK

Gold Bronzed and Labeled; Polished Bits

Tempered and Hardened Steel Bits, Carefully Ground and Sharpened; Soft Steel Body; **Eye Punched** from Solid Steel and **Tapered** from Outer to Inner Opening. The Eye will not Stretch nor Break, as does a Welded Eye and the Taper holds the Handle Firmly and prevents its splitting.

A very satisfactory Axe for chopping and splitting cord wood.

In Ordering Axes on this Page, Give Numbers and Weights Only

DIAMOND EDGE Axe Wedge used in all our Handled Axes. Full description on Page 3.

KELLY PERFECT

Hollow Beveled Polished and Etched; Blued Bevels

Crucible Steel [illegible] Hand **Tempered**, [illegible] and Sharpened ready for use; [illegible]; **Hollow Beveled** to prevent binding and permit the Blade to enter and leave the wood freely.

UNHANDLED

No. MC850—WESTERN PATTERN
Wide Bits

Weights, Assorted	3/4	3½/4½	4/5
Per Dozen	$20.00	20.50	21.00

No. KP925—WESTERN PATTERN
Wide Bits

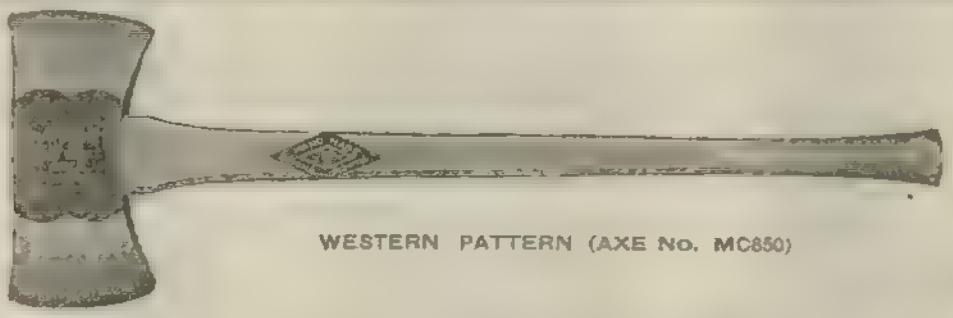
Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
Per Dozen	$28.34	28 84	29.34	29 84

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 55 lbs

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

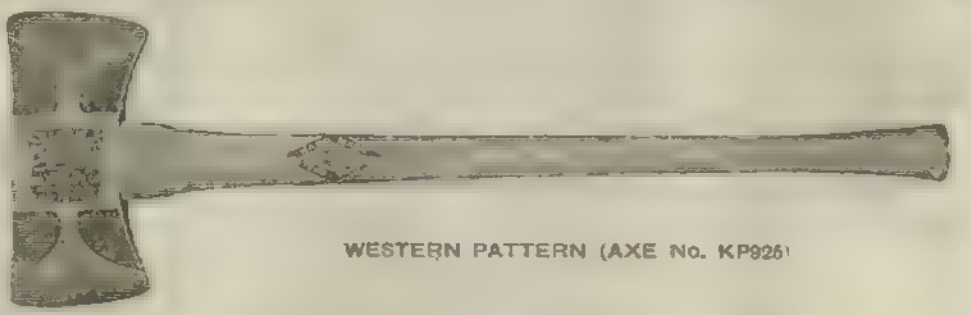
THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



WESTERN PATTERN (AXE No. MC850)

Kind of Handle	Weights, Assorted	3 4	3½ 4½	4 5
No. MC850 EE—With No. EE Tip Top Octagon	Per Dozen	$25 00	$25 50	$26 00
No. MC850 FF—With No. FF Tip Top Oval	"	25 00	25 50	26 00
No. MC850 LL—With No. LL Mound City Oval	"	24 50	24 50	25 00
No. MC850 LLO—With No. LLO Mound City Octagon	"	24 50	24 50	25 00
No. MC850 LOD—With No. LOD Live Oak Oval, Oak	"	25 00	25 50	26 00

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



WESTERN PATTERN (AXE No. KP925)

Kind of Handle	Weights, Assorted	3/4	3½ 4½	4 5	4½ 5½
No. KP925AA—With No. AA Nonesuch Diamond Octagon	Per Dozen	$34 00	$34 50	$35 00	$35 50
No. KP925XAA—With No. XAA Nonesuch Diamond Octagon	"	34 50	35 00	35 50	36 00
No. KP925BB—With No. BB Nonesuch Diamond Oval	"	34 00	34 50	35 00	35 50
No. KP925CC—With No. CC Nonesuch Octagon	"	33 50	34 00	34 50	35 00
No. KP925DD—With No. DD Nonesuch Oval	"	33 50	34 00	34 50	35 00
No. KP925EE—With No. EE Tip Top Octagon	"	33 00	33 50	34 00	34 50
No. KP925FF—With No. FF Tip Top Oval	"	33 00	33 50	34 00	34 50
No. KP925LL—With No. LL Mound City Oval	"	32.00	32.50	33 00	33 50
No. KP925LLO—With No. LLO Mound City Octagon	"	32 00	32.50	33.00	33 50
No. KP925LOD—With No. LOD Live Oak Oval, Oak	"	33 00	33 50	34 00	34 50

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

SINGLE BIT AXES
*BRIDGE GUN METAL
Gun Metal Finish; Labeled

Extra Quality Crucible Steel Bit, Carefully Tempered, Ground and Sharpened, Ready for Use. Soft Steel Body; The Eye is Punched from Solid Steel and will not Stretch nor Break, as Occurs with Axes Having a Rolled or Welded Eye. The Eye is Tapered from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting.

A First Class Axe in Every Respect and we Recommend it as Most Satisfactory for all Purposes.

In Ordering Axes on This Page, Give Numbers and Weights Only

UNHANDLED
Gun Metal Finish; Labeled

No. BB100 -DAYTON PATTERN
Wide Bit; Square Head

Weights, Assorted	3 ¼	3½/4½	4/5	4½/5½
Per Doz.	$19.50	20.00	20.50	21.00

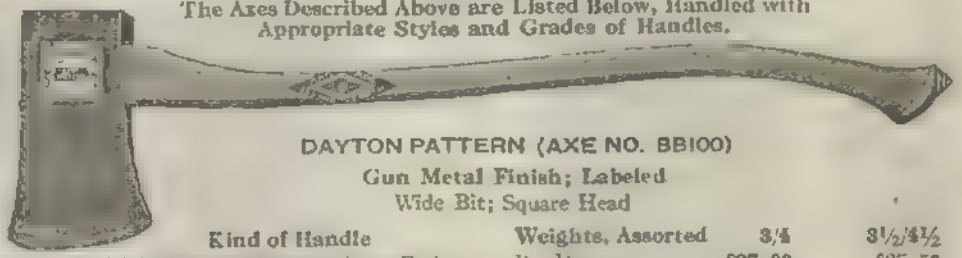
No. BB200 -MICHIGAN PATTERN
Wide Bit; Round Head

Weights, Assorted	3 ¼	3½/4½	4/5	4½/5½
Per Doz.	$19.50	20.00	20.50	21.00

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 55 Lbs.

HANDLED
The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles.

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THESE AXES



DIAMOND EDGE
Axe Wedge Used in All of Our Handled Axes. Full Description on Page 3.

DAYTON PATTERN (AXE NO. BB100)
Gun Metal Finish; Labeled
Wide Bit; Square Head

Kind of Handle	Weights, Assorted	3/4	3½/4½	4/5	4½/5½
No. BB100AAA [illegible] No. AAA No. 3 Dayton Pattern, Oval, Plain End	Per Dozen	$27 00	$27 50	$28 00	$28 50
No. BB100BBB [illegible] No. BB3 No. 3 Dayton Pattern, Oval, Plain End	"	27 00	27 50	28 00	28 50
No. BB100A [illegible] No. A No. 2 Dayton Pattern, Oval, Straight Pattern	"	26 50	27 00	27 50	28 00
No. BB100B [illegible] No. B No. 2 Dayton Pattern, Oval, Straight Pattern	"	26 50	27 00	27 50	28 00
No. BB100BN [illegible] No. BN No. 3 Dayton Pattern, Oval, Plain End, Light Nor.	"	26 50	27 00	27 50	28 00
No. BB100C [illegible] No. C No. 2 Dayton Pattern, Oval, Straight Pattern	"	26 00	26 50	27 00	27 50
No. BB100D [illegible] No. D No. 3 Dayton Pattern, Oval, Straight Pattern	"	26 00	26 50	27 00	27 50
No. BB100DN [illegible] No. DN No. 3 Dayton Pattern, Oval, Plain End, Light Northern	"	26 00	26 50	27 00	27 50
No. BB100EH [illegible] No. EH No. 3 Dayton Pattern, Oval, Plain End	"	26 00	26 50	27 00	27 50
No. BB100 [illegible] No. 3 Dayton Pattern, Oval, Plain End	"	25 00	25 50	26 00	26 50
No. BB100XL [illegible] No. XL No. 3 Dayton Pattern, Oval, Plain End	"	25 00	25 50	26 00	26 50
No. BB100T [illegible] No. T No. 3 Dayton Pattern, Oval, Plain End	"	25 00	25 50	26 00	26 50
No. BB100 [illegible] No. No. 3 Dayton Pattern, Oval, Straight Pattern	"	25 00	25 50	26 00	26 50
No. BB100XLN [illegible] No. XLN No. 3 Dayton Pattern, Oval, Plain End, Light Northern	"	25 00	25 50	26 00	26 50
No. BB100L [illegible] No. L No. 3 Dayton Pattern, Oval, Plain End	"	24 00	24 50	25 00	25 50
No. BB100PLO—With No. PLO Mound City Octagon, Plain End	"	24 00	24 50	25 00	25 50
No. BB100EO [illegible] No. EO No. 3 Dayton Pattern, Oval, Plain End Oak	"	25 00	25 50	26 00	26 50
No. BB100LO [illegible] No. LO No. 3 Dayton Pattern, Oval, Plain End Oak	"	25 00	25 50	26 00	26 50

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

MICHIGAN PATTERN (AXE NO. BB200
Gun Metal Finish; Labeled

Kind of Handle	Weights, Assorted	3/4	3½/4½	4/5	4½/5½
No. BB200AAA [illegible] No. AAA No. 3 Michigan Pattern, Oval, Plain End	Per Dozen	$27 00	$27 50	$28 00	$28 50
No. BB200BBB [illegible] No. BB3 No. 3 Michigan Pattern, Oval, Plain End	"	27 00	27 50	28 00	28 50
No. BB200A [illegible] No. A No. 2 Michigan Pattern, Oval, Straight Pattern	"	26 50	27 00	27 50	28 00
No. BB200B [illegible] No. B No. 2 Michigan Pattern, Oval, Straight Pattern	"	26 50	27 00	27 50	28 00
No. BB200BN [illegible] No. BN No. 3 Michigan Pattern, Oval, Plain End, Light Nor.	"	26 50	27 00	27 50	28 00
No. BB200C [illegible] No. C No. 2 Michigan Pattern, Oval, Straight Pattern	"	26 00	26 50	27 00	27 50
No. BB200D [illegible] No. D No. 3 Michigan Pattern, Oval, Straight Pattern	"	26 00	26 50	27 00	27 50
No. BB200DN [illegible] No. DN No. 3 Michigan Pattern, Oval, Plain End, Light Northern	"	26 00	26 50	27 00	27 50
No. BB200EH [illegible] No. EH No. 3 Michigan Pattern, Oval, Plain End	"	26 00	26 50	27 00	27 50
No. BB200 [illegible] No. 3 Michigan Pattern, Oval, Plain End	"	25 00	25 50	26 00	26 50
No. BB200XL [illegible] No. XL No. 3 Michigan Pattern, Oval, Straight Pattern	"	25 00	25 50	26 00	26 50
No. BB200C [illegible] No. C No. 2 Michigan Pattern, Oval, Plain End	"	25 00	25 50	26 00	26 50
No. BB200XLN [illegible] No. XLN No. 3 Michigan Pattern, Oval, Plain End, Light Northern	"	25 00	25 50	26 00	26 50
No. BB200L [illegible] No. L No. 3 Michigan Pattern, Oval, Plain End	"	24 00	24 50	25 00	25 50
No. BB200PLO—With No. PLO Mound City Octagon, Plain End	"	24 00	24 50	25 00	25 50
No. BB200EO [illegible] No. EO No. 3 Michigan Pattern, Oval, Plain End Oak	"	25 00	25 50	26 00	26 50
No. BB200LO—With No. LO No. 3 Michigan Pattern, Oval, Plain End Oak	"	25 00	25 50	26 00	26 50

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

SINGLE BIT AXES

*BRIDGE PHANTOM BEVELED

Polished and Labeled

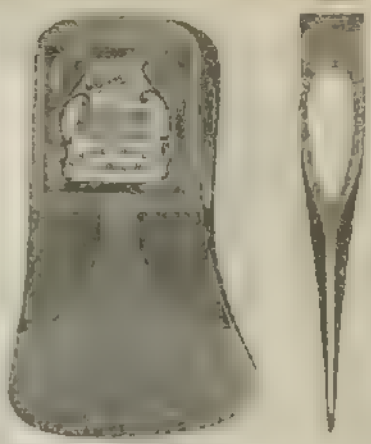
Extra Quality Crucible Steel Bit, Carefully Tempered, Ground and Sharpened, Ready for Use; Soft Steel Body; the Eye is Punched from Solid Steel and will not Stretch nor Break, as Occurs with Axes Having a Rolled or Welded Eye. The Eye is Tapered from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting.

A First Class Axe in Every Respect and we Recommend it as Most Satisfactory for all Purposes.

In Ordering Axes on this Page, Give Numbers and Weights Only

UNHANDLED

Phantom Beveled; Polished and Labeled; Bevels Painted Blue



No. B500—YANKEE PATTERN
Wide Bit; Narrow Square Head

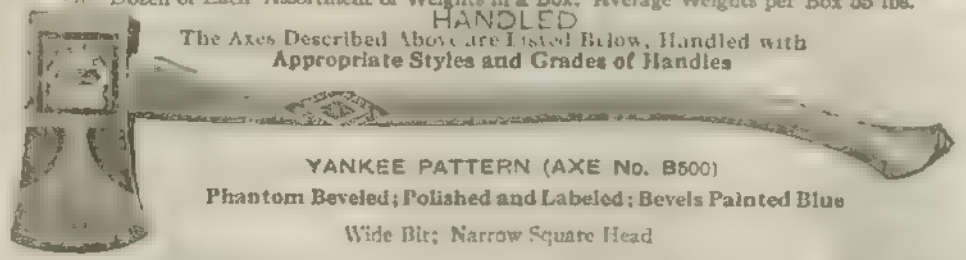
No. B525—MICHIGAN PATTERN
Wide Bit; Round Head

Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
Per Dozen	$20 50	21.00	21 50	22 00

Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
Per Dozen	$20.50	21.00	21.50	22 00

One Dozen of Each Assortment of Weights in a Box; Average Weights per Box 55 lbs.

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



HANDLED

The Axes Described Above are Listed Below, Handled with **Appropriate Styles and Grades of Handles**

DIAMOND EDGE
Axe Wedge Used in Our Handling This Axe

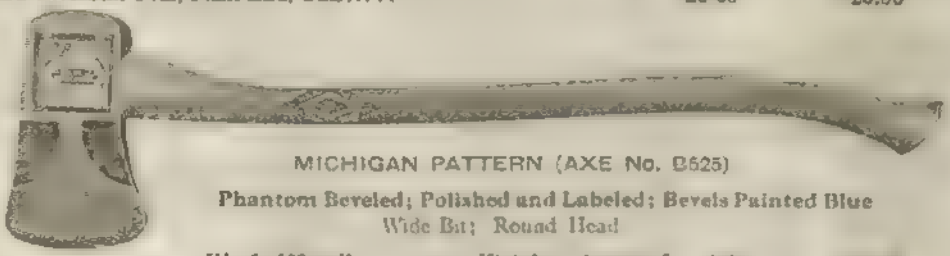
YANKEE PATTERN (AXE No. B500)

Phantom Beveled; Polished and Labeled; Bevels Painted Blue

Wide Bit; Narrow Square Head

Kind of Handle	Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
No. B500AAA—With No. AAA Norleigh Diamond, Octagon, Plain End	Per Dozen	$28.00	$28 00	$29.00	$29.50
No. B500BBB—With No. BBB Norleigh Diamond Oval, Plain End	"	28.00	28 50	29 00	29.50
No. B500A —With No. A Norleigh Diamond Octagon, Scroll End	"	27.50	28 00	28 50	29 00
No. B500B —With No. B Norleigh Diamond Oval, Scroll End	"	27.50	28 00	28 50	29.00
No. B500BN —With No. BN Norleigh Diamond Oval, Plain End, Lt. Nor.	"	27.50	28 00	28 50	29.00
No. B500C —With No. C Favorite Octagon, Scroll End	"	27 00	27 50	28 00	28.50
No. B500D —With No. D Favorite Oval, Scroll End	"	27 00	27 50	28 00	28.50
No. B500DN —With No. DN Favorite Oval, Plain End, Light Northern	"	27 00	27 50	28 00	28.50
No. B500FH —With No. FH Favorite Octagon, Plain End	"	27 00	27 50	28.00	28.50
No. B500E —With No. E Tip Top Octagon, Plain End	"	26 00	26 50	27.00	27.50
No. B500XE —With No. XE Tip Top Octagon, Straight Pattern	"	26 00	26 50	27.00	27.50
No. B500F —With No. F Tip Top Oval, Plain End	"	26 00	26 50	27 00	27.50
No. B500XF —With No. XF Tip Top Oval, Straight Pattern	"	26 00	26 50	27.00	27.50
No. B500TTN—With No. TTN Tip Top Oval, Plain End, Light Northern	"	26 00	26 50	27.00	27.50
No. B500L —With No. L Mound City Oct., Plain End	"	25 00	25 50	26 00	26.50
No. B500PLO —With No. PLO Mound City Octagon, Plain End	"	26 00	26 50	27 00	27.50
No. B500FO —With No. FO Favorite Oval, Scroll End, Oak	"	26 00	26 50	27.00	27.50
No. B500LO —With No. LO Live Oak Oval, Plain End, Oak	"	26 00	26.50	27.00	27.50

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



MICHIGAN PATTERN (AXE No. B525)

Phantom Beveled; Polished and Labeled; Bevels Painted Blue

Wide Bit; Round Head

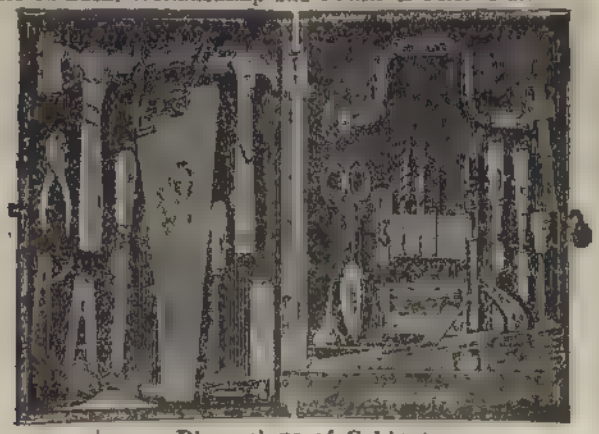
Kind of Handle	Weights, Assorted	3 4	3½ 4½	4 5	4½ 5½
No. B525AAA —With No. AAA Norleigh Diamond, Octagon, Plain End	Per Dozen	$28 50	$28.50	$29 00	$29 50
No. B525BBB —With No. BBB Norleigh Diamond Oval, Plain End	"	28 00	28 50	29 00	29 50
No. B525A —With No. A Norleigh Diamond Octagon, Scroll End	"	27 50	28 00	28 50	29 00
No. B525B —With No. B Norleigh Diamond Oval, Scroll End	"	27 50	28 00	28.50	29 00
No. B525BN —With No. BN Norleigh Diamond Oval, Plain End, Lt. Nor	"	27 50	28 00	28.50	29 00
No. B525C —With No. C Favorite Octagon, Scroll End	"	27 00	27 50	28.00	28 50
No. B525D —With No. D Favorite Oval, Scroll End	"	27 00	27 50	28.00	28.50
No. B525DN —With No. DN Favorite Oval, Plain End, Light Northern	"	27 00	27 50	28.00	28 50
No. B525FH —With No. FH Favorite Octagon, Plain End	"	27 00	27.50	28.00	28.50
No. B525E —With No. E Tip Top Octagon, Plain End	"	26 00	26.50	27.00	27 50
No. B525XE —With No. XE Tip Top Octagon, Straight Pattern	"	26 00	26 50	27.00	27 50
No. B525F —With No. F Tip Top Oval, Plain End	"	26 00	26.50	27.00	27 50
No. B525XF —With No. XF Tip Top Oval, Straight Pattern	"	26 00	26.50	27.00	27.50
No. B525TTN—With No. TTN Tip Top Oval, Plain End, Light Northern	"	26 00	26.50	27.00	27 50
No. B525L —With No. L Mound City Oval, Plain End	"	25 00	25 50	26.00	26.50
No. B525PLO —With No. PLO Mound City Octagon, Plain End	"	25 00	25.50	26.00	26 50
No. B525FO —With No. FO Favorite Oval, Scroll End, Oak	"	26 00	26 50	27 00	27 50
No. B525LO —With No. LO Live Oak, Plain End, Oak	"	26.00	26 50	27 00	27.50

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

TOOL CABINETS

★BRIDGE TOOL CO.

The Bridge Wall Tool Cabinet is Made of Specially Selected Oak, Varnished Golden Oak Finish. Has Paneled Door, Brass Plated Hinges and Hasp, Antique Copper Padlock, with Two Brass Keys; Two Brass Hangers on Back. Workmanship and Finish is First Class



Dimensions of Cabinet

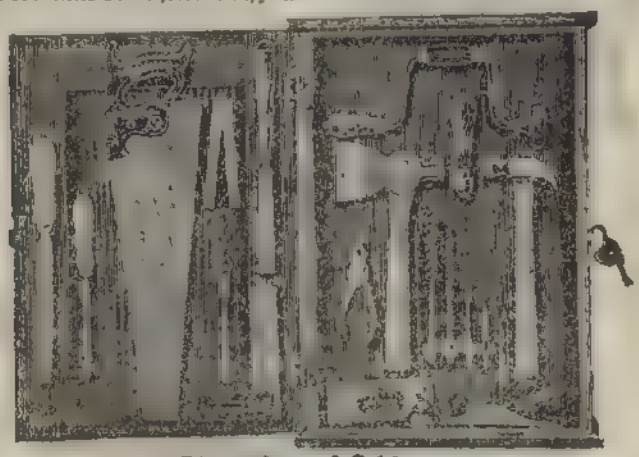
Outside—26⅛ inches High; 17½ inches Wide; 9⅛ inches Deep. Inside—24⅛ inches High; 16 inches Wide and 7¾ inches Deep. Drawer 3¼ inches Deep.

With 24 High Grade Tools Each

No. B75—Complete, with 24 Tools and 1 Oil Can; Weight of Cabinet with Tools, 44½ lbs.; Crated, 60 lbs..... **$22 00**

Contents of Cabinet

1 Hand Saw, No. B225, 20 inch.
1 Shingling Hatchet, No. BS2.
1 Nail Hammer, No. B11½
1 Combination Plier, No. BN6.
1 Brace, No. B010.
1 Auger Bit, No. B75, ⅜ inch.
1 Auger Bit, No. B75, ½ inch.
1 Auger Bit, No. B75, ¾ inch.
1 Jack Plane, No. B15.
1 Screw Driver, No. BR, 6 inch.
1 Screw Driver, No. BR, 4 inch.
1 Mill File, 8 inch, with Handle.
1 Slim Taper File, 5 in. with Handle.
1 Socket Firmer Chisel, No. BPX, ¼ in.
1 Socket Firmer Chisel, No. BPX, ¾ in.
1 Iron Block Plane, No. BX110.
1 Cabinet Scraper, 3x5 inch.
1 Try Square, No. 20, 6 inch
1 Bridge Scratch Awl, No. B10.
1 Wing Divider, No. 1, 6 inch.
1 Rule, No. 68.
1 Gauge, No. 61.
1 Shapleigh Special Oil Stone, No. 5.
1 Star Tinners Snip, No. 2.
1 Zinc Oiler, No. 0.



Dimensions of Cabinet

Outside—24 inches High, 17 inches Wide, 6¼ inches Deep. Inside—22½ inches High, 14½ inches Wide, 4⅞ inches Deep.

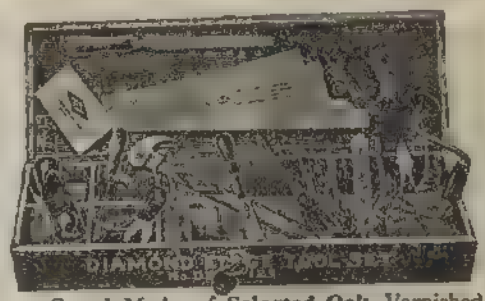
With 19 High Grade Tools Each

No. B50—Complete, with 19 Tools and 1 Oil Can; Weight with Tools, 29 lbs.; Crated, 36¾ lbs.....**$16 00**

Contents of Cabinet

1 Hand Saw, No. B225, 18 inch.
1 Shingling Hatchet, No. BS1.
1 Nail Hammer, No. B12.
1 Brace, No. B08.
1 Screw Driver, No. BR, 5 inch.
1 Mill File, 8 inch, with Handle.
1 Slim Taper File, 5 inch, with Handle.
1 Auger Bit, No. B75, ⅜ inch.
1 Auger Bit, No. B75, ½ inch.
1 Plain Socket Firmer Chisel, No. BP, ¼ inch.
1 Try Square, No. 20, 6 inch.
1 Rule, No. 68.
1 Plier, No. 310, 6 inch.
1 Awl and Tool Set, No. B45
1 Block Plane, No. BX110
1 Nail Set, No. M102
1 Shapleigh Special Oil Stone, No. 5
1 Carpenters Pincers, No. B6.
1 German Gimlet Bit, 2-32 inch.
1 Zinc Oiler, No. 0.

TOOL SETS



★DIAMOND EDGE

Dimensions of Case

Outside—27¼ inches Long, 8⅝ inches Wide, 4¼ inches Deep.

Inside—28⅜ inches Long, 8 inches Wide, 3½ inches Deep.

Case is Made of Selected Oak, Varnished Golden Oak Finish, Hinged Lid; Fancy Brass Plated Steel Hinges and Hasp; Antique Copper Plated Padlock with Two Brass Keys.

With 17 Highest Grade Guaranteed Tools Per Set

No. DE125—Complete, with 17 Tools and Other Accessory Articles; Weight of Case with Tools 18¼ lbs.; Crated 23 lbs. **$17 50**

Contents of Case

1 Nail Hammer, No. DE12.
1 Hand Saw, No. DE150, 18 inch.
1 Auger Bit, No. DE75, ¼ inch.
1 Auger Bit, No. DE75, ½ inch
1 German Gimlet Bit, No. DG, 4-32 inch
1 Butt Chisel, No. DEBP, 1 inch.
1 Mill File, 8 inch with Handle.
1 Extra Slim Taper, 5½ inch with Handle.
1 Screw Driver, No. DER, 5 inch.
1 Plier, No. DE106.
1 Nail Set No. DE102.
1 Cabinet Scraper, No. DE, 3x5.
1 Wrench, No. DE1.
1 Block Plane, No. DE110.
1 Brace, No. DE80.
1 Carpenters Pencil, No. 57.
1 Rule, No. 63.
1 Ounce Bottle LePage's Glue.
2 Sheets DIAMOND EDGE Sandpaper.
1 Spool Copper Wire, No. 30.
1 Package No. 42 Furniture Nails.
1 Package Assorted Screws.
1 Package Assorted Nails and Brads
1 Package Tacks.
1 Zinc Oiler, No. 0.

★DIAMOND EDGE

Dimensions of Case

Outside—27 inches Long, 8¼ inches Wide, 4 inches Deep.

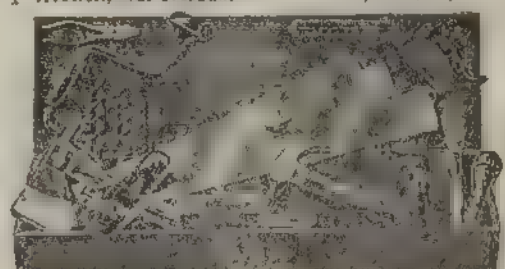
Plain Finished, Dovetailed Whitewood Case; Hinged Lid; Brass Plated Steel Hinges and Brass Hooks and Eyes; Stenciled.

With 16 Highest Grade Guaranteed Tools Per Set

No. DE100—Complete, with 16 Tools; Weight of Case with Tools 15¾ lbs..... **$15.00**

Contents of Case

1 Shingling Hatchet, No. DS1.
1 Nail Hammer, No. DE12.
1 Hand Saw, No. DE150, 22 inch.
1 Pocket Chisel, No. DEBP, 1 inch.
1 Slim Taper File, 5 in. with handle.
1 Oil Stone, No. DE6, 6 inch.
1 Plier, No. DEN6
1 Wrench, No. DE120.
1 Auger Bit, No. DE75, 4-16 inch.
1 Auger Bit, No. DE75, 6-16 inch.
1 Auger Bit, No. DE75, 8-16 inch.
1 Auger Bit, No. DE75, 10-16 inch.
1 Bridge Brace, No. BN100.
1 Awl and Tool Set, No. B45.
1 Pocket Level, No. 40.
1 Rule, No. 72.



TIP TOP

Dimensions of Case

Outside—27 inches Long, 8¼ inches Wide, 4 inches Deep.

Plain Finished, Dovetailed Whitewood Case; Stenciled Hinged Lid; Brass Plated Steel Hinges and Brass Hooks and Eyes.

With 17 High Grade Tools Per Set

No. N15—Complete with 17 Tools; Weight of Case with Tools 15½ lbs..... **$12.00**

Contents of Case

1 Bridge Half Hatchet, No. BH1.
1 Bridge Brace, No. B010.
1 Bridge Nail Hammer, No. B12.
1 Bridge Plier, No. B6, 6 inch.
1 Panel Saw, No. 210, 22 inch.
1 Cast Steel Auger Bit, 4-16 inch.
1 Cast Steel Auger Bit, 8-16 inch.
1 Cast Steel Auger Bit, 12-16 inch.
1 Cast Steel Auger Bit 16-16 inch.
1 Awl and Tool Set, No. B35.
1 Block Plane, No. BX110.
1 Agricultural Wrench, 8 inch.
1 Gimlet Bit, No. 22A, ⅛ inch.
1 Boxwood Rule, No. 61.
1 Level, No. 200
1 Shapleigh Special Oil Stone, No. 6.
1 Mound City Screw Driver, No. MC, 5 inch.

TOOL SETS

Dimensions of Case

Outside—27 inches Long, 8¼ inches Wide, 4 inches Deep.

Plain Finished, Dovetailed Whitewood Case; Hinged Lid with Hook and Eye Fasteners.

★PERFECTION
With 12 Serviceable Tools — Per Set

No. P10—Complete, with 12 Tools; Weight 14½ lbs..... **$9.60**

Contents of Case

1 Bridge Brace, No. B08.
1 Tip Top Panel Saw, No. 210, 22 inch.
1 German Gimlet Bit, No. 22A, ⅛ inch.
1 Standard Auger Bit, ¼ inch.
1 Standard Auger Bit, ⅜ inch.
1 Standard Cast Steel Auger Bit, ½ inch.
1 Standard Cast Steel Auger Bit, ⅝ inch.
1 Mound City Shingling Hatchet, No. MCS1.
1 Mound City Screw Driver, No. MC, 5 inch.
1 Agricultural Wrench, 8 inch.
1 Boxwood Rule, No. 61.
1 Smooth Plane, No. B3.

Dimensions of Case

Outside—27 ins. Long, 8¼ ins. Wide, 4 ins. Deep.

Plain Finished, Dovetailed Whitewood Case; Hinged Lid with Hook and Eye Fasteners.

★MOUND CITY
With 18 Serviceable Tools, Nails and Chalk — Per Set

No. MC50—Complete, with 16 Tools; Weight 15½ lbs..... **$7.70**

Contents of Case

1 Mound City Shingling Hatchet, No. MCS1.
1 Mound City Screw Driver, No. MC, 4 inch.
1 Mound City Brace, No. MC8.
1 Wonder Panel Saw, No. 1902, 18 inch.
1 Bridge Handled Brad Awl, No. B40.
1 Standard Auger Bit, ¼ inch.
1 Standard Auger Bit, ½ inch.
1 Standard Auger Bit, ⅝ inch.
1 Tack Claw, No. KB.
1 Tack Hammer, No. 260.
1 Nail Hammer, No. 85.
1 Bridge Block Plane, No. BX110.
1 Marking Gauge, No. 0.
1 Mallet, No. 1½.
1 Bridge Socket Firmer Chisel, No. BPX, 1 inch.
1 Piece Carpenters Chalk, No. BC.
1 Carpenters Lead Pencil, No. 57.
2 lbs. Assorted Nails.

Dimensions of Case

Outside—27 inches Long, 8¼ inches, Wide, 4 inches Deep.

Plain Finished, Dovetailed Whitewood Case; Hinged Lid with Hook and Eye Fasteners.

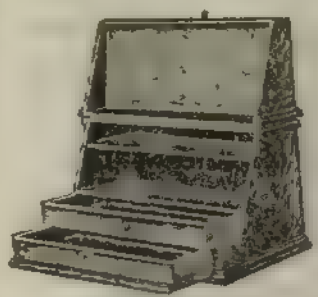
★MOUND CITY
With 11 Serviceable Tools and Nails — Per Set

No. MC25—Complete with 11 Tools; Weight 13¼ lbs. **$5 00**

Contents of Case

1 Mound City Shingling Hatchet, No. MCS1.
1 Mound City Screw Driver, No. MC, 4 inch.
1 Mound City Brace, No. MC8.
1 Wonder Panel Saw, No. 1902, 18 inch.
1 Bridge Handled Brad Awl, No. B40.
1 Standard Auger Bit, ¼ inch.
1 Standard Auger Bit, ½ inch.
1 Standard Auger Bit, ⅝ inch.
1 Tack Claw, No. KB.
1 Tack Hammer, No. 260.
1 Nail Hammer, No. 85.
2 lbs. Assorted Nails.

TOOL CHESTS



Chest Open

Chest Closed

A Hinged Receptacle in the Cover is Arranged for Placing Tools on Inner Side and Saws on Outside; Behind this the Inner Side of Lid is Arranged for Holding Chisels, etc.

Selected Ash, Weathered Oak Finish Outside, Plain Smooth Finish Inside; Top, Bottom, Sides and Ends ⅞ inch thick; Drawers with ⅞ inch Front, ¾ inch Sides and Bottom; Trays ¾ inch Thick Strongly Made with Lock Joints; Top and Bottom Edges Protected and Decorated with Heavy Moulding, Reinforced with Metal Strip and Corner Plates; Heavy Iron Lifting Handles; Brass Drawer Pulls and Hinges; Brass Lock.

†CARPENTERS

Reinforced with **Iron** Side Strips and Corner Plates, with Two Drawers and Two Shelves.

	Length	Width	Depth	Wt. Crated		Each
†No. 5	24 inches,	14 inches,	14 inches,	50 lbs.....	$23 40	$13.00
†No. 6	28 inches,	16 inches,	16 inches,	60 lbs.....	25 20	14.00
†No. 7	32 inches,	18 inches,	18 inches,	70 lbs.....	27 00	15.00

†MACHINISTS

Reinforced with **Brass** Side Strips and Corner Plates, with Three Drawers and One Shelf

Each

†No. 8—24 inches Long 12 inches Wide; 12 inches Deep; Weight Crated 56 lbs. $21 60 12 00

One in a Crate.

CARPENTERS
With Tray

Selected and Thoroughly Seasoned Ash, **Weathered Oak Finish**; Strongly Built, with Blind Dovetail or Lock Joint Corners, Ends Trimmed with Mitered Mouldings on Cover and Base.

Heavy Malleable Iron; Japanned Drop Handles; Brass Hinges and Key Plate.

Made of ⅞ inch Lumber

Nos.	48	49	50
Length, Inches	20	24	31½
Width, Inches	9	12	16
Depth, Inches	8½	10	9½
Wt. Crated, lbs.	30	40	50
Each	$4 50	5.50	6 50
	8 10	9 90	11.70

One in a Crate

Selected Basswood Chest; Stained Black and Varnished; Complete with Leather Handle, Brass Clasps, Brass Lock and Key, Brass Corners; Saw Rack, Hooks for Brace and Coping Saw, and Wooden Button for Try Square.

Each

No. 1001½—Inside Dimensions—Length 33 inches Height 17¾ inches; Width 5 inches. Will take 28 inch Rip Saw, and a Square with 12 inch Tongue. Weight 10 lbs. **$12.50**
Loose.

Items marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, F. O. B Milwaukee.

BROAD AXES

BBB

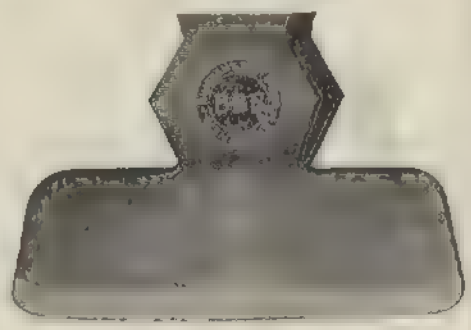
Highest grade tool steel, hand welded, accurately shaped and tempered, round corners, gun metal finish, cutting edges bright, ground sharp and labeled

Special Canada Pattern

No B8C—

Weights, lbs...	5	5½	6	6½	7
Width, cut, in.	9½	10	10½	10¾	11
Per dozen....	$42 00	42 00	42 00	44 00	44 00

Half Dozen in a Box



Wisconsin Pattern

No B6W—

Weights, lbs...	6	6½	7	7½
Width, cut, in.....	11	11⅛	11¼	11⅜
Per dozen.....	$44 00	44 00	44 00	44 00

Half Dozen in a Box

XLCR

Hand forged tool steel, correctly tempered fire bronzed and labeled, polished bit and head.

Pennsylvania Pattern

No. E7P—

Weights, lbs.	5	5½	6	6½
Width of cut, in....	9¾	10	11	11¼
Per dozen	$32 00	32 00	35 00	35.00

Half Dozen in a Box

HOUSE CARPENTERS' ADZES

BBB

Hand forged, solid steel, gun metal finish cutting edge and face bright.

No B5— Half Head

Width cut, in	3½	3¾	4	4¼	4½
Weights lbs..	3¼	3½	3¾	3⅞	4
Per dozen	$21 00	24 00	24 00	24 00	24 00

Half Dozen in a Box

XLCR

Hand forged ,solid steel, fire bronzed body, polished bit and head

No. E25— Half Head

Width cut, in.	3½	3¾	4	4¼	4½
Weights, lbs..	3¼	3½	3¾	3⅞	4
Per dozen....	$22 00	22 00	22 00	22 00	22.00

Half Dozen in a Box

RAILROAD ADZES

BBB

Hand forged, solid steel, ebony finish, cutting edge bright

No. B6— Full Head

Width cut, in.....	4½	5
Weights, lbs.	4¼	4¼
Per dozen	$18 00	18.00

Half Dozen in a Box

SHIP CARPENTERS' ADZES

XLCR

Hand forged tool steel, fire bronzed, cutting edge bright, labeled, spur heads.

Plain Bit

No. E3—

Width cut in	4	4½
Weights, lbs	3	3
Per dozen	$25 00	26 00

Half Dozen in a Box

Lipped Bit

No. E4—

Width cut, in.....	4½	5	5½
Weights, lbs	3¼	3¼	3¼
Per dozen.....	$36 00	36.00	36 00

Half Dozen in a Box

SHIP CARPENTERS' AXES

XLCR

Hand forged tool steel, carefully tempered, fire bronzed body, polished head and bit

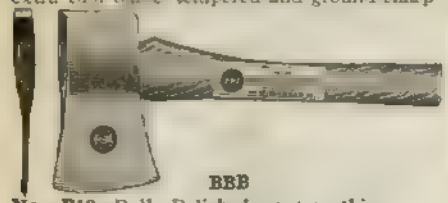
No E2—

Weights, lbs.	5	5½
Width cut, in.....	6	6¼
Per dozen	$30 00	30 00

Half Dozen in a Box

CAMP AXES

Highest grade tool steel carefully shaped extra thin blade tempered and ground sharp



BBB

No. B13—Full Polished, extra thin blade 6 in. long, 3½ in. cutting edge, weight 3½ pounds including handle, with 24 in. polished second growth hickory handle. Per dozen $20.00
Half Dozen in a Box

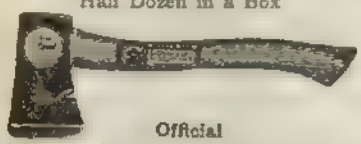
BOY SCOUTS' AXES

BBB

Highest grade tool steel carefully shaped extra thin blade tempered and ground sharp

No. B100B Black finish, extra thin blade 5 in. long 3 in. cutting edge weight 2 pounds including handle, with 14 in. green colored hickory handle Per dozen..... $15.00

No. B100N—Nickel Plated, extra thin blade 5 in. long, 3 in. cutting edge, weight 2 pounds including handle, with 14 in. Mahogany finish handle
Per dozen $16.00
Half Dozen in a Box

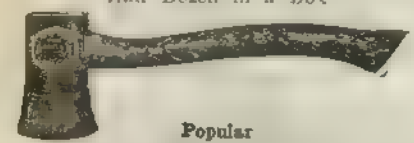


Official

Solid steel of special analysis. Double tempered, making a good keen edge. Highest grade hickory handles, special forest finish. Handles are 14 inches long

No. 15S—With heavy leather sheath, blade 5 in. long, with 3½ in. cutting edge, weight 1 lb., 5 oz. Per dozen $18.00

No. 15—Same as No. 15S, only without sheath . . . . . Per dozen 12.00
Half Dozen in a Box



Popular

Cast steel, fully tempered, polished bit, black painted poll, forest green hickory handle, 14 inches

No. P25S Popular—With heavy leather sheath, blade 4¾ in. long, with 3¼ in cutting edge, weight 1¼ pound
Per dozen $13.00

No P25 Popular—Same as No P25S Popular, only without sheath.
Per dozen 7.50
Half Dozen in a Box

AXE SHEATHS

Heavy russet leather with snap fastening

No. 10—Extra sheaths, fitting boys' scout or hunters' axes
Per dozen $6.00
One Dozen in a Package

BBB HATCHETS

Forged from one piece of solid tool steel. Each hatchet carefully inspected and specially tempered, ground, ready for use, with best grade select white hickory handles, accurately fitted

BROAD

Gold bronzed with head and bit highly polished, single bevel

No B102—

Size	Cut Inches	Wgt. less Handle	Per Dozen
0	3	1 lb 8 oz	$11.00
1	4	1 lb 12 oz	12.00
2	4½	2 lb 2 oz	13.00
3	5	2 lb 8½ oz	15.00
4	5½	3 lb 3 oz	16.50
5	6	3 lb. 7½ oz.	18.50

Third Dozen in a Box

FLOORING

Gold bronzed, with head and bit highly polished, single bevel.

No. B103—

Size	Cut Inches	Wgt less Handle	Per Dozen
1	4	1 lb. 9 oz.	$13.50
2	4½	1 lb. 14 oz.	14.50

Third Dozen in a Box

HALF

Octagon neck, round pole, nickel plated, octagon mahoganized handles,

No. B116—

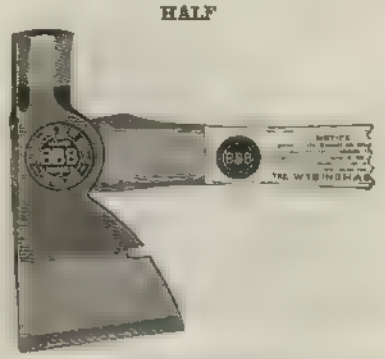
Size	Cut Inches	Wgt. less Handle	Per Dozen
1	3¼	1 lb. 7 oz.	$16.00
2	3½	1 lb. 10 oz.	17.50

Half Dozen in a Box

BBB HATCHETS

Forged from one piece of solid tool steel. Each hatchet carefully inspected and specially tempered, ground ready for use, with best grade select white hickory handles, accurately fitted

HALF

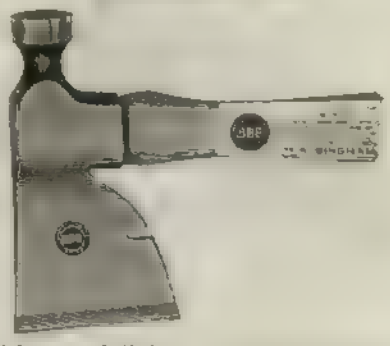


Octagon pole, gold bronzed, with polished head and bit, oval white hickory handle

No. B104—

Size	Cut Inches	Wgt. less Handle	Per Dozen
0	3¼	14 oz	$ 9.25
1	3⅜	1 lb. 5 oz	9.75
2	3⅝	1 lb. 9½ oz	10.25
3	3⅞	1 lb 14½ oz	10.75

Half Dozen in a Box

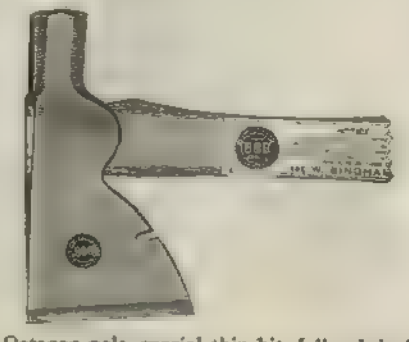


Adze eye, bell face, thin bit, round neck, full polished, oval white hickory handle

No. B105—

Size	Cut Inches	Wgt. less Handle	Per Dozen
1	3¼	1 lb.	$14.50
2	3½	1 lb. 4½ oz.	15.00

Half Dozen in a Box



Octagon pole, special thin bit, full polished, oval white hickory handles

No. B114—

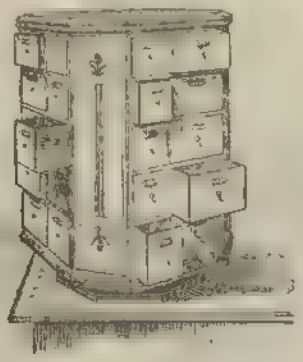
Size	Cut Inches	Wgt less Handle	Per Dozen
0	3	14 oz.	$11.00
1	3¼	1 lb 5 oz	11.50
2	3½	1 lb. 9½ oz.	12.00
3	3¾	1 lb. 14½ oz.	12.50

Half Dozen in a Box

✠BOLT AND SCREW CASES

✠BROWN'S PERFECTION

Will Hold More and Longer Bolts than Other Cases of Similar Sizes, Because the Drawers are Square, with no Waste Space at the Center. Each Drawer is Labeled with the Size of Screw or Bolt, which it is Intended to Contain; Each Drawer will Hold a Full Package of the Size Indicated; the Case Revolves Easily, whether Empty or Full.



Plan

Made of Good Quality Tennessee Oak, Hard Oil Finish, Drawers are Made Square, with no Waste at Center

BOLT CASES

Each

No. 40—Forty Drawers; Height 37 inches, Diameter 22 inches; Weight Each 180 lbs..... **$30 00**

No. 40 Cases Labeled as Follows:

¼x1½, 1¾, 2, 2¼, 2½, 3, 3½, 4, 4½, 5.
⅜x1½, 1¾, 2, 2½, 3, 3½, 4, 4½, 5, 6.
⅜x2, 2½, 3, 3½, 4, 4½, 5, 6, 7, 8.
½x3, 3½, 4, 4½, 5, 6, 7, 8, 9, 10.

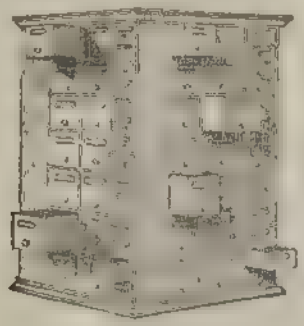
SCREW CASES

Each

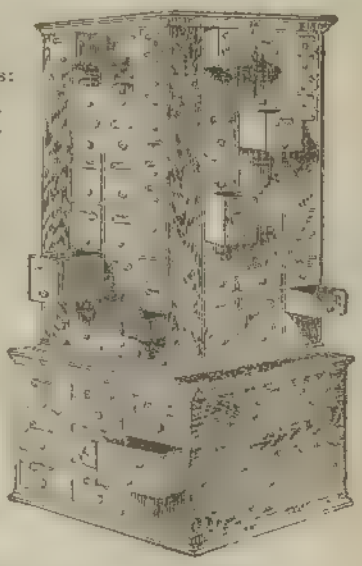
No. 80—Eighty Drawers; Height 37 inches, Diameter 22 inches; Weight Each 180 lbs..... **$40 00**

No. 80 Screw Case is Labeled as Follows, Can be Changed to Suit Your Own Selection of Screws:

¼ inch—1, 2, 3 (in One Drawer).
⅜ inch—2, 3, 4, 5.
½ inch—2, 3, 4, 5, 6.
⅝ inch—4, 5, 6, 7, 8.
¾ inch—5, 6, 7, 8, 9.
⅞ inch—5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
1 inch—5, 6, 7, 8, 9, 10, 11, 12, 13, 14.
1¼ inch—7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
1½ inch—7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
1¾ inch—9, 10, 11, 12, 13, 14, 16.
2 inch—9, 10, 11, 12, 13, 14, 16.
2½ inch—12, 14, 16.
3 inch—14, 16, 18.



The Plan of Nos. 112 and 130 is the Same as Nos. 40 and 80, Shown Above, Except the Corners are Left Square and Filled in with Small Drawers for Screws.



COMBINATION BOLT AND SCREW CASES

Made of Good Quality Tennessee Oak, Hard Oil Finish

UPPER CASE, ONLY—WITHOUT BASE

Each

No. 112—With 112 Boxes; 56 for Bolts and 56 for Screws; Height of Case 50 inches; Diameter 24 inches; Weight Each 300 lbs..... **$60 00**

CASE AND BASE—COMPLETE

Each

No. 130—Base is 30 inches Square, 20 inches High and Contains 18 Drawers; Upper Case has 112 Boxes, 56 for Bolts and 56 for Screws; Height Over All 70 inches; Weight Each 480 lbs..... **$74.00**

No. 112 Cases Leave the Factory Labeled as Follows:

Washers, ⅝-10, ¾-12.
Bolts, ¼x1, 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3½, 4, 4½, 5.
Bolts, ⅜x1½, 1¾, 2, 2½, 3, 3½, 4, 4½, 5, 6.
Bolts, ½x2½, 3, 3½, 4, 4½, 5, 6, 7, 8, 9, 10, 11, 12.
Screws, ¾—5, 6, 7, 8, 9. (in One Drawer).
Screws, ⅜—4, 5, 6.
Screws, ½—4, 5, 6, 7.
Screws, ⅝—5, 6, 7, 8, 9.
Screws, ⅜—6, 7, 8, 9.
Screws, 1—7, 8, 9, 10, 11.
Screws, 1¼—8, 9, 10, 11, 12.
Screws, 1½—9, 10, 11, 12, 13, 14.
Screws, 1¾—11, 12, 13, 14.
Screws, 2—11, 12, 13, 14.

This Leaves 4 Small Drawers with Blank Labels, which Can be Used for Tire Bolts or Stove Bolts, etc.

No. 130, Case Labeled as Above, with the Following Added in the Base:

Washers, ⅝, ¾.
Bolts, ⅝—5, 6, 7, 8, 9, 10, 11, 12.
Bolts, ¾—7, 8, 9, 10, 11, 12, 14, 16.

Labels Can Easily be Changed to Suit Your Own Selection

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Erwin, Tenn.

✠REVOLVING SCREW AND BOLT CASES

AMERICAN

Tops and Bottoms are Made of the Best of Kiln Dried Oak Lumber and Screwed Together, and Braced with Iron Rods, which Bind the Whole Firmly Together, thus Making it Impossible for Them to Get Out of Order. The Weight that Can be Put into Them, and by which Means they Revolve Perfectly True and Easy.

Iron Standards, Screwed Firmly into an Iron Hub in the Bottom, Make them Perfectly True and Solid.

Each Case is Supplied with the Best Selected Thoroughly Dry, Clear Poplar Drawers. We Furnish Cases of Oak when so Ordered. The Fronts of Drawers are Made of the Best Norway Pine, with the Sizes they Contain Nicely Printed on. No Store that Handles Bolts and Screws is Complete Without One of these Cases, as they Prevent Mixing of Screws and Bolts, thus Enabling Dealers to Keep their Stock in Good Shape, Making it a Pleasure Instead of a Task to Handle them. The Drawers are All Provided with Stops to Prevent their Removal from the Case; Each Drawer Holds a Full Pound of Bolts or Screws of the Size and Number Indicated on the Front of the Drawer.

All Numbers on Bolt and Screw Cases will be Changed to Suit Purchaser Without Extra Charge.

SIZE 1—SCREW CASE

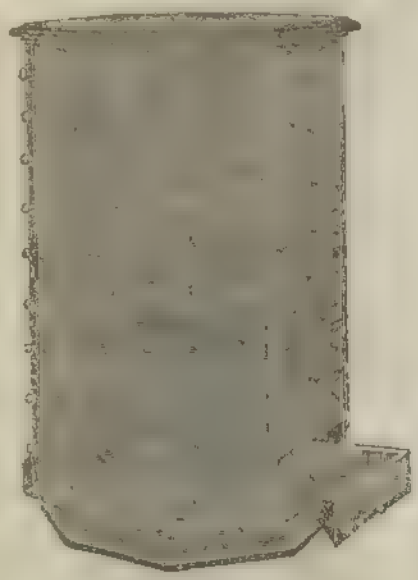
Contains Labeled Drawers for Following Sizes of Screws:

Inches, ½x3, 4, 5, 6, 7.
Inches, ⅝x5, 6, 7, 8.
Inches, ¾x5, 6, 7, 8, 9.
Inches, ⅞x7, 8, 9, 10.
Inches, 1x6, 7, 8, 9, 10, 11, 12, 13, 14.
Inches, 1¼x7, 8, 9, 10, 11, 12, 13, 14, 15.
Inches, 1½x8, 9, 10, 11, 12, 13, 14, 15, 16.
Inches, 1¾x9, 10, 11, 12, 13, 14, 15, 16, 17.
Inches, 2x10, 11, 12, 13, 14, 15, 16, 17, 18.
Inches, 2½x12, 13, 14, 15, 16.
Inches, 3x16, 18, 20, 22.

SIZE 2—SCREW CASE

Contains Labeled Drawers for Following Sizes of Screws:

Inches, ⅜x2, 3, 4.
Inches, ½x3, 4, 5, 6, 7.
Inches, ⅝x5, 6, 7, 8.
Inches, ¾x5, 6, 7, 8, 9, 10.
Inches, ⅞x7, 8, 9, 10, 11.
Inches, 1x6, 7, 8, 9, 10, 11, 12, 13, 14.
Inches, 1¼x7, 8, 9, 10, 11, 12, 13, 14, 15.
Inches, 1½x8, 9, 10, 11, 12, 13, 14, 15, 16.
Inches, 1¾x9, 10, 11, 12, 13, 14, 15, 16, 17.
Inches, 2x10, 11, 12, 13, 14, 15, 16, 17, 18.
Inches, 2½x12, 13, 14, 15, 16.
Inches, 3x16, 18, 20, 22.



SCREW CASES

SIZE 3—SCREW CASE

Contains Labeled Drawers for Following Sizes of Screws:

Inches, ¼x1, 2.
Inches, ⅜x2, 3, 4, 5.
Inches, ½x3, 4, 5, 6, 7.
Inches, ⅝x4, 5, 6, 7, 8, 9.
Inches, ¾x4, 5, 6, 7, 8, 9, 10.
Inches, ⅞x6, 7, 8, 9, 10, 11, 12.
Inches, 1x6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
Inches, 1¼x8, 9, 10, 11, 12, 13, 14, 15, 16.
Inches, 1½x8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18.
Inches, 2x10, 11, 12, 13, 14, 15, 16, 17, 18.
Inches, 2½x12, 13, 14, 15, 16.
Inches, 3x16, 18, 20, 22.

SIZE 4—SCREW CASE

Contains Labeled Drawers for Following Sizes of Screws:

Inches, ¼x1, 2.
Inches, ⅜x2, 3, 4, 5, 6.
Inches, ½x3, 4, 5, 6, 7, 8.
Inches, ⅝x4, 5, 6, 7, 8, 9, 10, 11.
Inches, ¾x4, 5, 6, 7, 8, 9, 10, 11, 12.
Inches, ⅞x6, 7, 8, 9, 10, 11, 12.
Inches, 1x6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
Inches, 1¼x7, 8, 9, 10, 11, 12, 13, 14, 15.
Inches, 1½x8, 9, 10, 11, 12, 13, 14, 15, 16.
Inches, 1¾x9, 10, 11, 12, 13, 14, 15, 16, 17.
Inches, 2x10, 11, 12, 13, 14, 15, 16, 17, 18.
Inches, 2½x12, 13, 14, 15, 16.
Inches, 3x16, 18, 20, 22.
Inches, 3½x16, 18, 20.

POPLAR WOOD—CHERRY STAINED

		Each
No. 1P—72 Drawers; 33 in. High, 21 in. Wide; Wt. 130 lbs...	$49 50	33 00
No. 2P—80 Drawers; 39 in. High, 21 in. Wide; Wt. 130 lbs.	55 80	37 20
No. 3P—88 Drawers; 39 in. High, 24 in. Wide; Wt. 135 lbs.	63 00	42
No. 4P—96 Drawers; 42 in. High, 24 in. Wide; Wt. 135 lbs.	69 60	46 40

OAK—WITH LABEL HOLDERS

		Each
No. 1K—72 Drawers; 33 in. High, 21 in. Wide; Wt. 135 lbs	$66 00	44
No. 2K—80 Drawers; 39 in. High, 21 in. Wide; Wt. 135 lbs	72 00	48
No. 3K—88 Drawers; 39 in. High, 24 in. Wide; Wt. 140 lbs.	82 50	55 00
No. 4K—96 Drawers; 42 in. High, 24 in. Wide; Wt. 140 lbs	107 30	71 50

SIZE 1—BOLT CASE

Contains Labeled Drawers for Following Sizes of Bolts:

Tire Bolts

Inches, 3-16x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
Inches, ¼x1¼, 1½, 2, 2¼, 2½, 2¾, 3.
Inches, 5-16x2, 2¼, 2½.

Carriage Bolts

Inches, ¼x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5.
Inches, 5-16x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 6.
Inches, 3-8x2, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5½, 6.
Inches, 7-16x2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10.
Inches, ½x2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 11, 12.

SIZE 2—BOLT CASE

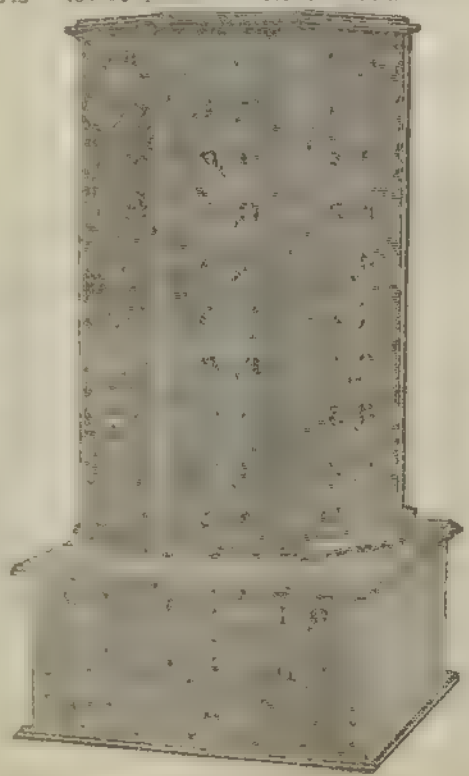
Contains Labeled Drawers for Following Sizes of Bolts:

Tire Bolts

Inches, 3-16x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
Inches, ¼x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
Inches, 5-16x2, 2¼, 2½.

Carriage Bolts

Inches, ¼x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5.
Inches, 5-16x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 6.
Inches, 3-8x2, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5½, 6.
Inches, 7-16x2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10.
Inches, ½x2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 11, 12.



BOLT CASES

POPLAR WOOD—CHERRY STAINED

		Each
No. 1BP—72 Drawers; 60 inches High, 30 in. Wide; Wt. 385 lbs.	$98.00	65.30
No. 2BP—104 Drawers; 65 inches High 30 in. Wide; Wt. 400 lbs.	107 00	71.30

OAK—WITH LABEL HOLDERS

		Each
No. 1BK—98 Drawers; 60 inches High, 30 in. Wide; Wt. 385 lbs.	$124.10	82.75
No. 2BK—104 Drawers; 65 inches High, 30 in. Wide; Wt. 390 lbs.	116.40	91.50

Items Marked ✠Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Dayton, Ohio.

BRUNNER AIR COMPRESSORS AND ELECTRIC OUTFITS

BELT DRIVEN AIR COMPRESSOR

Recommended for garages housing up to 20 cars and to be used in connection with air tanks not larger than 20 gal. capacity. Built for pressures up to 175 lbs. but tested at the factory to 300 lbs pressure. Has adjustable safety valve. Requires ¼ H. P for operation and delivers 1 cu. ft. free air per minute, at 350 R. P. M. Height 4½ in., floor space 8x11 in.

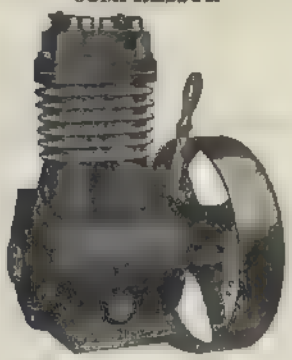
No. 100—With 8 in tight and loose pulleys . . . . . Each $18.00

BELT DRIVEN GARAGE OUTFIT

For Garages Housing 15 to 20 Cars and Vulcanizing Shops

1—No. 100 Air Compressor	$18 00
1—20 gal. 14x30 in. galv. Air Tank	11 00
1—Model B Air Gauge	2 00
1—No. 75 Vertical Check Valve	1 25
1—No. 72 Safety Valve for Air Tank	2 00
1—No. 83—¾ in. Needle Valve	1 25
1—No. 23—⅝ in. Needle Valve	1 25
1—No. 82—⅝ in. Needle Valve with swivel hose connection	1.50
1—Automatic Tire Connection	1 00
1—25 ft. Drop Line ⅜ in. Air Hose	4 00
No. 2 Outfit—Complete	$43 25

TWO CYLINDER BELT DRIVEN AIR COMPRESSOR



We recommend this machine for garages housing up to 60 cars and to be used with air tanks up to 50 gallon capacity. Requires ½ H. P for operation, delivers 3 cu. ft. free air per minute at 400 R. P. M. and 175 lbs. air pressure. Tested to 300 lbs. Adjustable safety valve on each cylinder. Height 23 in., floor space 6½x10 in.

No. 102—With 9 in. Tight Pulley only . . $33.50
No. 102—With 9 in. T and L. Pulley 37.00
No. 102—With 14 in Tight Pulley only. 34.50
No. 102—With 9 in Pulley and Clutch . . 40.00

BELT DRIVEN GARAGE OUTFIT

For Garages Housing up to 60 Cars and Large Vulcanizing Shops

1—No. 102 Air Compressor, 9 in. pulley and clutch	$40.00
1—50 gal. 16x60 in. galv. Air Tank	23 00
1—Model B Air Gauge	2.00
1—No. 75 Vertical Check Valve	1.25
1—No. 72 Safety Valve for Air Tank	2.00
1—No. 83—¾ in. Needle Valve	1.25
1—No. 83—⅝ in. Needle Valve	1.25
1—No. 82—⅝ in. Needle Valve with swivel hose connection	1.50
1—Automatic Tire Connection	1.00
1—25 ft. Drop Line ⅜ in. Air Hose	4.00
No. 1 Outfit—Complete	$77.25

MOTOR DRIVEN COMPRESSOR

This Compressor is intended for service in garages housing up to 60 cars and in connection with tanks up to 50 gal. capacity. The compressor has a capacity of 2½ cu. ft. of free air per minute, has an adjustable safety valve on each cylinder and is driven by ⅓ H. P. motor, by noiseless rawhide pinion gear. The motor will readily start the compressor against 130 lbs. and drive it up to 175 lbs. Height 16½ in., floor space 18½x11 in.

No. 42 A. C.—110 or 220 V. 60 cy. A. C. 1 Phase Motor . . . . . Each $135.00
No. 42 D. C.—110 or 220 Volts . . . Each 120 00

MOTOR DRIVEN GARAGE OUTFIT

For Garages Housing 75 Cars when Model "L" Controller is Used, and up to 50 Cars Without Model "L"

1—No. 42 Compressor, 110 or 220 V 60 Cy. A. C.	$135.00
1—40 gal. 16x48 in. galv. Air Tank	18.50
1—Model B Air Gauge	2.00
1—No. 75 Vertical Check Valve	1.25
1—No. 72 Safety Valve for Air Tank	2.00
1—No. 83—¾ in. Needle Valve	1.25
1—No. 83—⅝ in. Needle Valve	1.25
1—No. 82—⅝ in. Needle Valve with swivel hose connection	1.50
1—Automatic Tire Connection	1.00
1—25 ft. Drop Line ⅜ in. Hose	4.00
	$167.75
1—Model "L" Controller to make outfit automatic (optional)	40.00
No. 6 Outfit—Complete	$207.75

MOTOR DRIVEN OUTFIT

Outfit consists of a standard No. 102 Brunner Air Compressor geared to a ½ H. P. motor and mounted on a 32 gal. welded steel tank tested to 300 lbs. Equipment includes air gauge, check valve, needle valves, hose line and tire connection. Recommended for garages housing up to 50 cars, or in gasoline stations where available space is limited. Height 34 in., floor space 18x36 in.

No. 542—110 or 220 Volt, Direct Current Motor . . . . . Each $160 00
No. 543—110 or 220 Volt, A. C. Motor, 60 Cy. 1 Phase . . . . . Each 170.00

This outfit is of exactly the same size and design as the No. 542 except for the compressor which is a standard No. 101 Brunner Air Compressor. Recommended for garages housing up to 35 cars.

No. 541—110 or 220 Volt, Direct Current Motor . . . . . Each $140 00
No. 541—110 or 220 Volt, A. C. Motor, 60 Cy. 1 Phase . . . . . Each 150 00

PORTABLE TIRE INFLATOR

This is a well built Motor Driven Portable Outfit for inflating tires without storage tank, and operates from any lighting circuit. Has a heavily built two-cylinder air cooled compressor, bore 1⅝ in., stroke 1½ in., pistons equipped with three metal rings and geared to a ¼ H. P. electric motor by means of a cloth pinion, and mounted upon a substantial cast iron sub-base with three wheels. A substantial handle of convenient height is supplied. Gloss black enamel finish. 20 ft. electric cord and plug and 20 ft. heavy air hose, tire connection and gauge supplied. Also furnished as a stationary outfit, but not intended for use in connection with a storage tank.

Portable Outfit

	Each
No. 66 A. C.—110 or 220 V. 60 Cy.	$90 00
No. 66 D. C.—110 or 220 V. Motor	88 00

Stationary Outfit

	Each
No. 66 A. C.—110 or 220 V. 60 Cy. A. C. Motor	$85 00
No. 66 D. C.—110 or 220 V. Motor	83 00

PORTABLE ELECTRIC OUTFIT

This is a very high grade, practical portable air compressor outfit, entirely complete with all fittings and accessories ready to operate. It has a powerful ¼ H. P. electric motor that can be operated from any lighting circuit and which will readily start the 1 cu. ft. compressor against a pressure of 130 lbs. and drive the pressure to 175 lbs. The tank is 12x30 in. and of seamless drawn steel construction. Height 32 in., floor space 20½x36 in.

	Each
No. 50 A. C.—110 or 220 V. 60 Cy. 1 Phase Motor	$145 00
No. 50 D. C.—110 or 220 V. Motor	130 00

Traffic Sign Supremacy

The largest single order ever placed by any city for traffic signs has been placed with the Buffalo Municipal Equipment Company.

The contract was awarded by the Traffic Ordinance Committee of the City of Buffalo after inspection and tests of samples submitted by the leading traffic sign makers in the United States.

THE B.M.E. TRAFFIC SIGN

was adjudged the most artistic, to be made of the most serviceable materials for permanent street service, and it was the lowest in price.

You will find suggestions of practical value for municipal traffic regulation in our latest catalogue. Mailed on request.

Buffalo Municipal Equipment Co.

Mutual Life Building, Buffalo, N. Y.

Manufacturers of Traffic, Warning and Street Name Signs

SIGNS

All kinds of durable and ornamental signs.

Street Names, *Catalog B*
Road Direction, Park, Warning } *Catalog C*
Traffic, *Catalog D*

Catalogs illustrated in colors, send for any one or all of them.

JOSEPH N. EARLY
Est 1861
Patentee and Manufacturer
320 Broadway New York

King Poles and G. E. tops make the best lighted streets

Send for our beautifully illustrated booklet—free.

Send name and address today.

KING FOUNDRY CO.
55 W. Jackson Blvd.
Chicago, Ill.

The Leb-Iron Traffic Sign

Wt. of Base, 110 lbs
Total Wt., 225 lbs.

A Substantial, Efficient, Silent Policeman. The words "Keep-to-the-Right" are in 2½ and 1¾ inch letters rounded and stand out a half inch from the boards, which are covered with Red or Green smalts as desired. The covering is carefully baked in electric ovens, insuring long life. A 7 inch Red or Green Globe is placed on the top, which is about on the level with the chauffeur's range of vision. It cannot be passed unnoticed.

The Base Weighs 150 Pounds

the complete sign, 225 lbs. Provision is made for wiring from underneath or overhead.

Price complete, including Wiring Lamps and Fixtures, $20; plain, with provision for attaching Lantern, $16.

The Lebanon Machine Co.
Lebanon, N. H.

Street Signs
Road Guide Posts
Traffic Signs

The Kind That Last

Made of Heavy Galvanized Iron with letters sunken into plate.

If you are looking for *permanent* signs instead of the short lived ordinary variety write to us for prices, illustrations and further particulars.

Union Iron Products Co.
Drawer H-2 E. CHICAGO, IND.

Here's the Way

to build concrete culverts!

No fussing with wood bracing which is a very slow and expensive method—

THIS WAY IS VASTLY CHEAPER THAN METAL PIPE CULVERTS

and as cheap and far more substantial than clay tile.

The One-Man Collapsible Culvert Form

Our Illustrated Booklet contains a lot of valuable information about Culvert Building. Write for free copy

Storms Mfg. Co.
347 Monadnock Blk.
CHICAGO

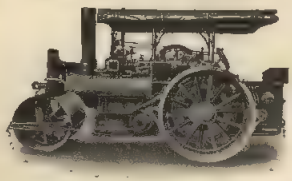
Littleford Tar Heaters

Many municipalities have found the "Littleford" a valuable and economical asset in Street Repair work.

Write for booklet.

LITTLEFORD BROS. 500 E. Pearl St., Cincinnati

QUALITY MACHINERY



BUFFALO PITTS ROLLERS

Are purchased by discriminating buyers because of the many years of satisfactory service which they will render, the low repair costs and their general reliability.

ASK THOSE WHO OWN THEM

All sizes All Types Write for catalogue

Built only by

THE BUFFALO-SPRINGFIELD ROLLER COMPANY
SPRINGFIELD, OHIO

Collieries Supply and Equipment Co.
Culvert Pipe and Road Machinery

Contractors, Road Makers and Municipal Supplies

Sectional Cast Iron Culvert Pipe Corrugated Iron Culvert Pipe Scarifiers Road Signs Road Scrapers Road Drags Rock Crushers Road Rollers Write for Prices

14 North Fifth Street Philadelphia Pa.

SOUTHERN CLAY MFG. CO.

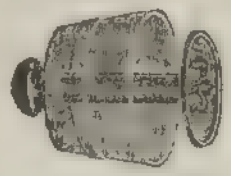
James Building
CHATTANOOGA, TENN.

Annual Capacity:
Thirty Million Paving Blocks

Manufacturers of

WIRE-CUT-LUG BLOCKS
DUNN PATENT

BUTTER MOULDS



ROUND GLASS

Per Dozen

No. GBM—1 Lb.; Clear Small Finished Glass Mould and Print; Assorted Designs; Weight per Dozen 20 lbs. $5 50
One Dozen in a Case

WOOD, ROUND

Sugar Maple, Paraffine Finish; Hand Carved; Assorted Designs.

Per Dozen

No. PR—1 lb.; Weight per Dozen 10½ lbs. $4 50

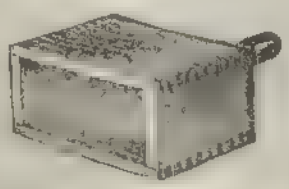
No. HPR—½ lb.; Weight per Dozen 7 lbs. 4 50
One Dozen in a Case

No. IBM—Individual, About ½ oz; Weight per Dozen ¾ lb. 1 00
Loose

COLORADO BRICK

Per Dozen

No. CB1—1 lb. Size; Hard Maple; Dovetailed Corners; Top Fastened with Brass Escutcheon Pins; Size 5½x3¼x3⅝ inches; Wt. per Dozen 16 lbs. $5 00
One Dozen in a Case



ROCKY MOUNTAIN PATTERN

Per Dozen

No. RM—1 Lb. Size, Hard Maple; Dovetailed Corners; Top Fastened with Brass Escutcheon Pins; Size 4¾x2½x2½ inches, Weight per Dozen 12 lbs. $4 00
Loose

CALIFORNIA SQUARE

Hard Maple; Brass Hinges

Per Dozen

No. CS1—1 Lb., Size 5x5x2½ inches; Weight per Dozen 10 lbs.. $7 50
Four Dozen in a Box

BUTTER LADLES

Hard Maple; Paraffine Polished

Per Dozen

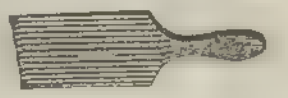
No. SBL—Size 5x5½ inches; Length Over All 9¾ inches; Weight per Dozen 4⅛ lbs. $2.00
Loose

Hard Maple; Paraffine Polished

Per Dozen

No. PBL—Size 3¾x4½ inches; Length Over All 8½ inches; Weight per Dozen 3⅛ lbs. $1 10
Loose

BUTTER SPADES



Per Dozen

No. GBS—Grooved; Width 3 inches; Length Over All 10 inches, Hard Maple, Paraffine Polished; Weight per Dozen 2 lbs. $0 80
Loose

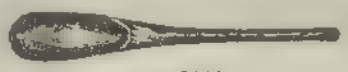
WOOD SPOONS

STANDARD

Hard Maple; Smooth Finish

Nos.	13	15	17
Length, inches	13	15	17
Weight Dozen, lbs.	2	2½	3½
Per Dozen	$0.90	1.00	1 50

Nos. 13 and 15, One Gross; No. 17, Half Gross in a Box.



FRENCH

Best Quality; Smooth Finish

Per Dozen

No. FS—Clear Whitewood, Length 8 inches, Weight per Dozen 2½ lbs. $1 70
One Dozen in a Package

MUSTARD SPOONS

STANDARD

Best Quality Boxwood

Per Dozen

No. MS—Length 5 inches; Box Wood; Weight per Dozen ¼ lb... $0.50
One Gross in a Package

SALT SPOONS

Per Dozen

No. BS—White Polished Bone; Length 3⅛ inches; Weight per Dozen 2½ ozs. $0.80
One Dozen in a Package

SANITARY KITCHEN SETS

SANITARY

Comprises Twelve Useful Kitchen Articles, all made of Best Heavy Crystal Glass.

Contents

One Graduated Jug	One Clothes Dampener
One Butter Dish and Cover	One Pepper
One Egg Separator	One Salt
One Lemon Extractor	One Measuring Cup
One Graduated Measure	One Fruit Jar Filler
One Rolling Pin	One Funnel

Per Set

No. 12KS—Complete as Described above; Weight 15 lbs.... **$2 30**

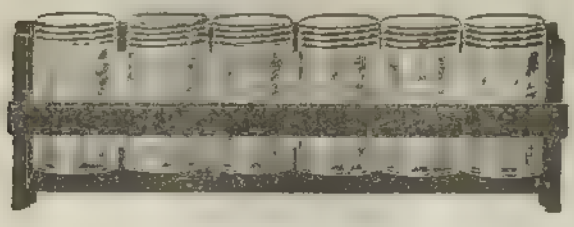
One Set in a Carton

SPICE JARS

Per Dozen Sets

No. 7G—Consists of 7 Jars; Crystal Glass, Octagon Shape with Aluminum Screw Caps; Size of Jars 5½x2½ inches, with Exception of Coffee Jar which is 7⅛x4½ and Tea Jar which is 5½x3¼; Salt and Pepper Jars Perforated, Names Enameled; Weight per Dozen 66 lbs..... **$21 00**

One Set in a Carton

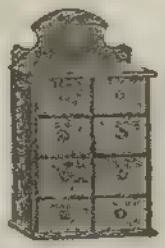


Per Dozen Sets

No. 6G—Hardwood Rack, Mission Finish, 16¼ inches Long, 5¾ inches High, 3 inches Deep; Contains 6 Glass Jars with Nickel Screw Caps; Names Enameled; Weight per Dozen Sets 60 lbs..... **$28.00**

One Set in a Carton

SPICE CABINETS



Per Dozen Sets

No. 5—With 8 Dust Proof Drawers; Size 16¾x9¾ in.; Made of Hardwood, Varnished and Attractively Lettered; Wt. Each 5 lbs..... **$12 50**

Six in a Crate

SALT BOXES

Per Dozen

No. PW — Plain Wood; Weight per Dozen 6½ lbs..... **$2.50**

Loose

POTATO MASHERS

Per Dozen

No. PPM—Plain Hard Maple; Length 10¾ inches; Wt. per Dozen 12½ lbs.... **$1.70**

Two Dozen in a Crate; Weight per Crate 12 lbs.

ROLLING PINS

STANDARD KITCHEN

Best Quality Clear Selected Stock.

Per Dozen

No. PRP—Plain Maple; Size 12x2⅝ inches; **Revolving Handles;** Weight per Dozen 29 lbs..... **$3 50**

One Dozen in a Box

SCHOOL ROLLING PINS

No. SRP—Plain Maple; Size 7½x1¾ inches; Solid Handle; Weight per Dozen 5 lbs..... **1.40**

One Dozen in a Box

STANDARD GLASS PINS

Best Quality Heavy Clear Crystal Glass.

Per Dozen Loose

No. GRP—Glass Family; Size 9¼x2¾ inches; Sanitary, Handles; Weight per Dozen 19 lbs..... **$7 50**

One Dozen in a Box

No. ORP—Opal Family; Size 9¼x2¾ inches; Sanitary; Loose Handles; Weight per Dozen 20 lbs..... **9 00**

One Dozen in a Box

PASTRY OR BREAD BOARDS

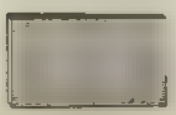
STANDARD

Selected White Wood, Clear and Free from Knots and Blemishes; each Board Cleated at Ends to Prevent Warping.

Nos.	2	3	4	5
Size, inches	16x22	18x24	20x24	20x30
Wt. Doz. lbs.	64	76	88	115
Per Dozen	**$9 00**	**10 50**	**12 00**	**14.00**

One Dozen in a Bundle

MEAT BOARDS



Per Dozen

No. 12—Size 12x18 inches; Made of Hardwood, ⅞ inch Thick; Boards Cleated on Ends; Wt. per Doz. 38 lbs. **$10.50**

One Dozen in a Bundle

Tubular Lanterns

No. 402

No. 402 Union Driving Lamps

Black enamel, plain lens, with dash clamp holder.

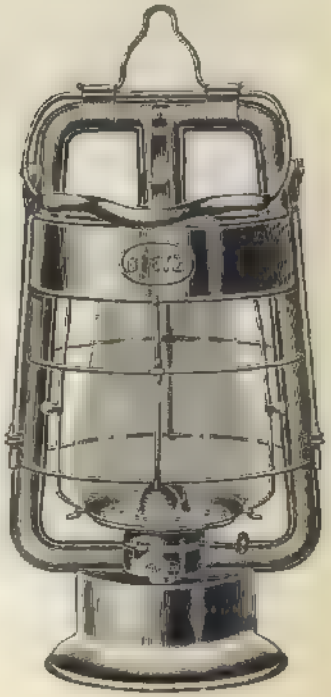
Black enamel, optical lens, with dash clamp holder

No. 403 King Fire Department Lantern

Bright tin, with polished copper fount.
Same, nickel plated

All brass, polished
Same, nickel plated

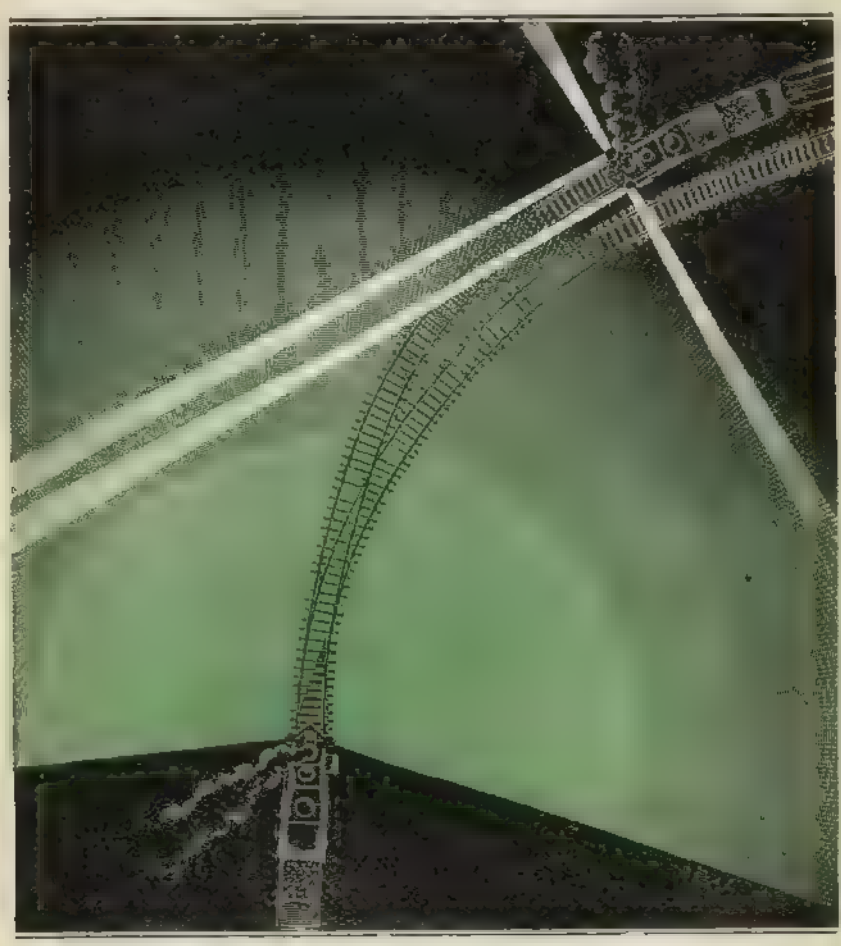
Cast bracket, brass or nickel plated, for same see bracket on No. 112 lantern



No. 403

Handlan Radius Engine Lamps

For Oil For Most Efficient Service For Electricity



Displaying green signals, illustrating their uniform divergence compared with the narrow shafts of light when standard lenses are used as on the extra See page 140, describing lenses.

Handlan Radius Engine Lamps

Radiate a uniform amount of light instead of A narrow beam that is only visible when Directly within its limited scope. Radius lenses Insures greater opportunities for employes to Understand and remember these important Signals, especially when sections are following

Handlan No. 26 Radius Lamp

Showing full view of green radius lens; white lens of same size on opposite side, each lens display covers a radius of 130 degrees.

See page 140, describing lenses.

Handlan No. 26 Radius Engine Lamps

Are constructed of heavy material and combine simplicity of operation with elimination of all complicated parts, such as removable interior glasses exterior triggers and other intricate devices, which have caused endless trouble besides the continual expense for replacement and repairs

Side View of No. 26 Lamp

Both Lenses Extend as Far on Opposite Side as Shown in this Cut

The lamp bracket is so arranged that it is not necessary to specify rights or lefts, as the lamps can be used upon either side or front of locomotive These lamps can be focused to any position required. Changes in display signals are made by exterior movement. The lens not in use remains obscured by a steel blind.

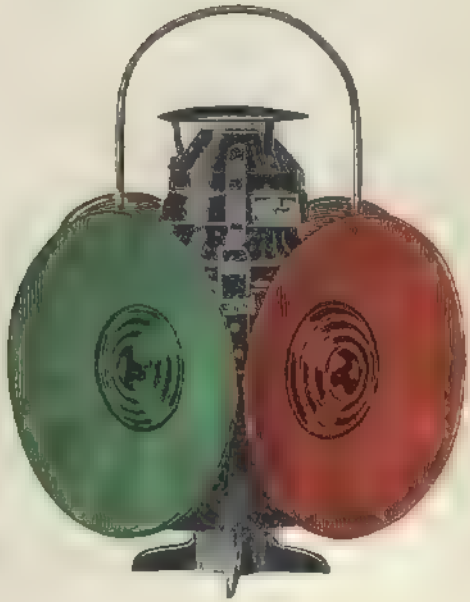
See page 140, describing lenses

Handlan Switch Lamp

Wind Proof, Rain Proof

Perfect Ventilation

No. 151



Top cover operating easy to clean, mounted iron lens targets same color as lenses

No target on switch stand required. Furnished with 28-ounce fonts, with one way or long time burners, $4\frac{3}{8}$, $4\frac{1}{2}$, 5 or $5\frac{3}{8}$ inch lenses any color, outside wick raiser

For parts, see pages 54 and 55

Handlan No. 151 Switch Lamp Parts

See list of parts, page 55

List of Parts for Handlan No. 151 Switch Lamps

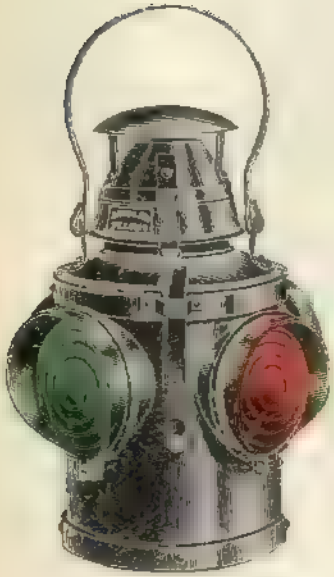
1. Smoke bell and cone
2 Lens—give size and color.
3. Lens gaskets—give size.
4 Drawbands
4A Plain lug, for drawband.
4B. Tapped lug, for drawband
5 Drawband bolt.
6 Burner, Handlan - long time.
7 Oil fount No. 50, 28-ounce.
8 Chimney.
9 Wick, long time burning
10 Oil fount handle holder
11 Cover spring
12. Cover spring stop
13 Daylight signal target—give size and color of lens.
14. Base, malleable iron.
15. Outside wick raiser, complete.
16. Outside wick raiser housing.
17. Outside wick raiser shaft.
18. Outside wick raiser shaft spring
19. Outside wick raiser shaft button
20 Plain slip collar for fount.
21 Threaded slip collar for burner.
22. Oil fount handle
23 Semaphore goggle.
24. Oil fount seat.
25 Body bottom
28 Spider
29 Breast, only
30 Wind shield with ½-inch hinge.
31 Top cone with ½-inch hinge
32. Top cone staves.
33 Top cone spring
34 Top cap spring
35 Cone top, complete
36 Bail only
37 Ears for bail
38 Cone top hinge, complete.
39 Cone top male hinge.
40 Cone top female hinge.
41 Hinge pin
42 Cover, complete.
43 Body
44 Cover hinge, complete
45 Male cover hinge.
46 Female cover hinge
47 Cover hinge pin.

Handlan Switch Lamp

Wind Proof, Rain Proof

No Loose Parts

No. 30



For Fork Stands

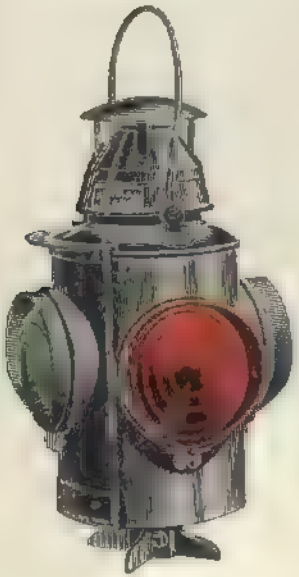
No. 20 gauge steel, retinned fork tubes are placed on inside of lamp body, better protected and more durable construction. 4½, 4½, 5 or 5⅜-inch lenses. 28-ounce fount, one day or long time burner. Inside or outside wick raiser, large opening at top. Easy to clean lenses and interior of lamp.

Handlan Switch Lamp

Wind Proof, Rain Proof

Easy to Clean

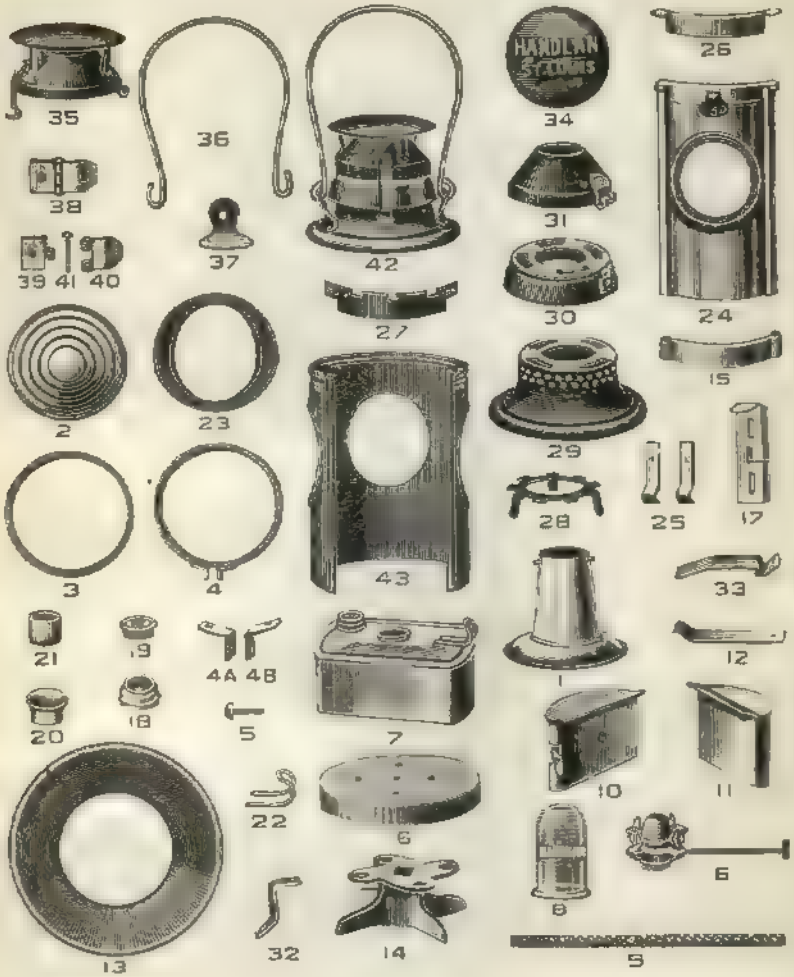
No. 24



No. 20 gauge steel, retinned, 4⅛, 4½, 5 or 5⅝-inch lenses; 31-ounce fount or 20-ounce fount; one-day or long time burner; inside or outside wick raiser.

For parts, see pages 64 and 65.

Handlan No. 24 Switch Lamp Parts

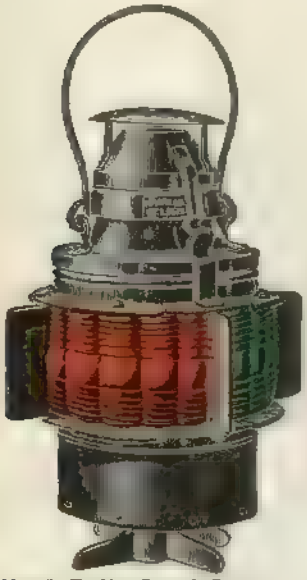


See list of parts, page 65

List of Parts for Handlan No. 24 Switch Lamps

1 Smoke bell and cone
2 Lens—give size and color
3 Lens gasket, give size
4 Drawband, give size
4A Plain lug, for drawband
4B Tapped lug for drawband.
5 Drawband bolt
6 Burner, Handlan long time
7 Oil fount, No. 51, 31 fluid ounce
8 Chimney
9 Wick, long time burning
10 Left hand oil fount guide complete with spring.
11 Right hand oil fount guide.
12 Oil fount retaining spring
13 Daylight signal target give size and color of lens
14 Base malleable iron
15 Door receiver.
16 Body bottom and oil pot seat
17 Burner shaft keyhole slide
18 No 4 feeder collar
19 No. 4 feeder cap.
20 Plain slip collar for fount.
21 Threaded slip collar for burner
22 Oil fount handle
23 Semaphore goggle.
24 Door with goggle
25 Door holder springs.
26 Water shed.
27 Top body bridge
28 Spider.
29 Breast, only
30 Wind shield with ½ inch hinge
31 Top cone with ½-inch hinge
32 Top cone staves.
33 Top cone spring.
34 Top cap
35 Cone top, complete
36 Bail, only.
37 Lars for bail
38 Hinge, complete
39 Male hinge
40 Female hinge
41 Hinge pin
42 Cover, complete
43 Body

Handlan Radius Switch Lamp and Enameled Iron Target Switch Lamps



No. [illegible] Radius Switch Lamp

No. 17 Radius Switch Lamp, Top View

The spread of light not only covers a radius of 79 degrees, but radiates above and below the center line of lense thereby displaying clear indications on grades, and on stands where at times lamps do not fit perfectly

In view of so many inquiries and requests from railroads for a more efficient switch lamp on curves we have, after considerable experimenting perfected a type of radius lamp that has thoroughly met the extreme requirements for this particular service

A service test will determine if greater efficiency and greater safety is obtained on curves, and we suggest a comparative test with your present standard switch lamp

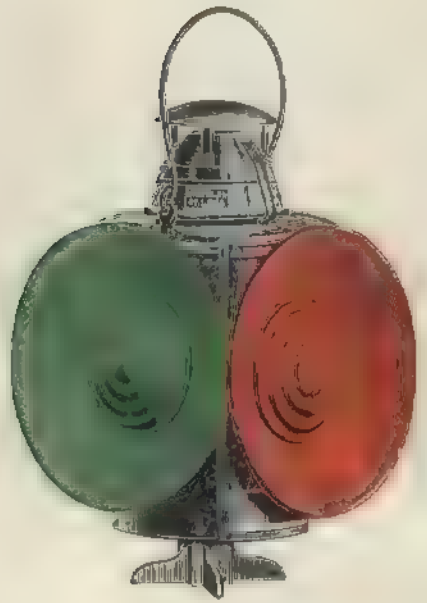
Very substantial construction throughout. Built of No 18 gauge cold rolled steel, retinned The special lenses are well protected All parts riveted seamless drawn oil pot, No 1 signal burner or long time burner solid malleable iron base, and Handlan top draught ventilation, wind proof, rain proof, rust proof, easy to clean

Handlan Switch Lamp

Wind Proof, Rain Proof

Simplicity in Construction

No. 150

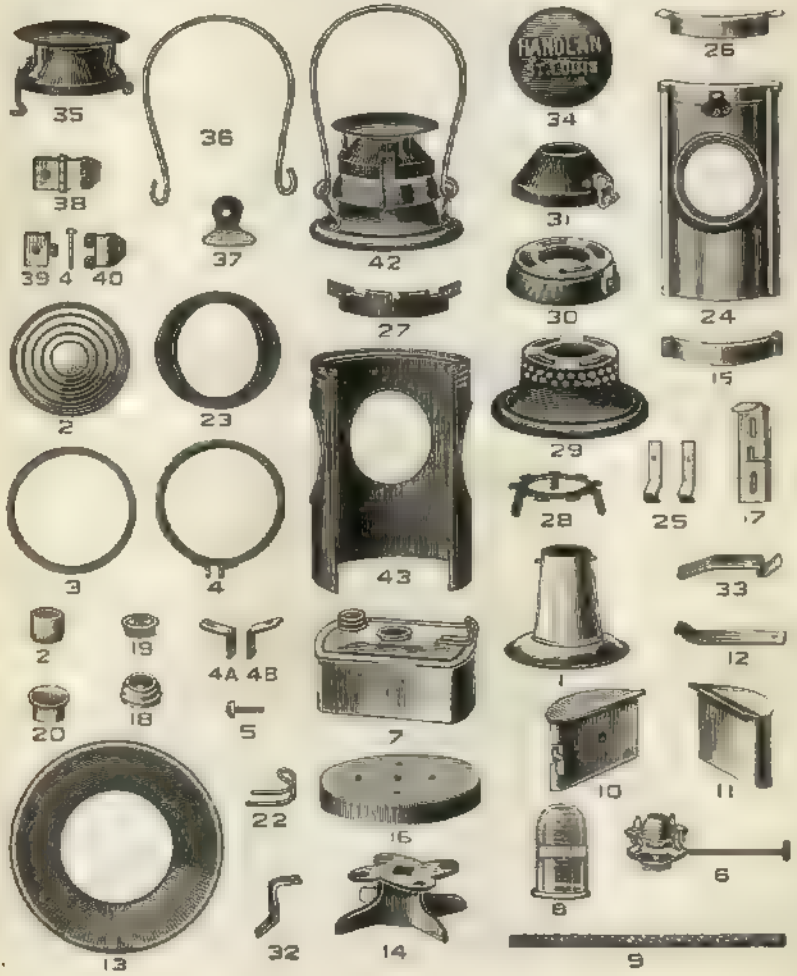


Side door opening, graduated red lenses, targets, smoke colored glass chimney lenses

No target on switch stand required. 31, 20 or 16-ounce founts, one day or long time burner, insulated or patented wick raiser, $4\frac{1}{2}$, $4\frac{3}{4}$, 5 or $5\frac{3}{4}$ inch lenses

For parts, see pages 50 and

Handlan No. 150 Switch Lamp Parts



See list of parts, page 51

List of Parts for Handlan No. 150 Switch Lamps

1. Smoke bell and cone
2. Lens—give size and color
3. Lens, gasket—give size.
4. Drawband—give size
4A. Plain lug, for drawband
4B Tapped lug, for drawband
5 Drawband bolt
6. Burner, Handlan long time.
7. Oil fount, No 51, 31 fluid ounce
8. Chimney
9. Wick, long time burning.
10. Left hand oil fount guide, complete with spring
11. Right hand oil fount guide
12. Oil fount retaining spring.
13. Daylight signal target—give size and color of lens
14C. Base, malleable iron
15 Door receiver
16. Body bottom and oil pot seal
17. Burner shaft keyhole slide
18. No 4 feeder collar
19. No. 4 feeder cap.
20. Plain slip collar for fount
21 Threaded slip collar for burner.
22 Oil fount handle
23 Semaphore goggle.
24. Door with goggle
25 Door holder springs
26 Water shed
27 Top body bridge
28 Spider.
29 Breast, only.
30 Wind shield with ½-inch hinge.
31 Top cone with ½-inch hinge.
32 Top cone staves
33 Top cone spring
34 Top cap
35 Cone top, complete
36 Bail, only.
37 Ears for bail
38 Hinge, complete
39 Male hinge
40 Female hinge
41. Hinge pin
42 Cover, complete
43 Body

Handlan Switch Lamps

No. 100 Switch Lamp

Equipped with two 5¼-inch green lenses and two 5¼-inch red lenses, four day burner; outside wick raiser; 32-ounce fount

Also fitted with enameled iron shields, if required

Handlan Signal Lamps

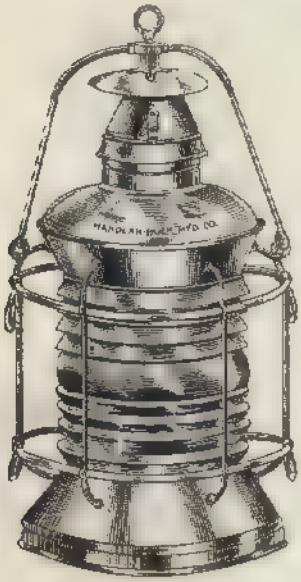
Government Marine and River Lights, in Brass, Copper, Galvanized or Tin

For Electricity or Oil

Latest Designs — Superior Workmanship

Corning Fresnels — Seamless Oil Pots

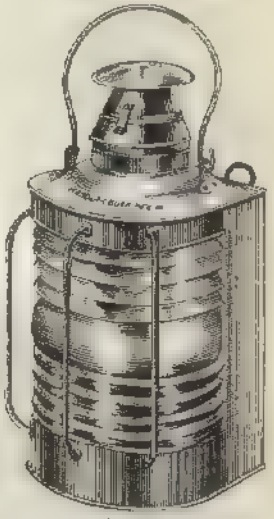
No. 46 Channel Lamp



No 46

8-inch, 360° Bridge Signal with 8-inch fresnel.

No. 159 Pier Lamp



No 159

8-inch, 180° Pier Signal with 8-inch fresnel.

Manufacturers of steamboat lanterns signal lights, masthead lights side lights, pier lights and special lamps, for electricity or oil

Automatic Highway Crossing Watchman

Red lights are seen only when signal is in operation or with track circuit interrupted; lights may be seen when signal and bell circuits are out, or signal may be in operation when bell and light circuits are out, or bell may be ringing when lights and signal circuits are out It is not likely with proper maintenance that all these units can be out of order at the same time, and with signal arms waving in such a distinct flagging manner, and bell ringing and lights blinking, the best possible warning is given at dangerous crossings

The apparatus is so simply constructed that it is next to impossible for the mechanical parts to get out of order, and is therefore, a matter of maintaining circuits

We have a crossing signal which we invite you to examine in detail before deciding just what design you will install for highway crossing protection. We wish to call your attention to its simple yet strong and effective construction

The signal consists of two arms, operated from the horizontal to 60° position below the

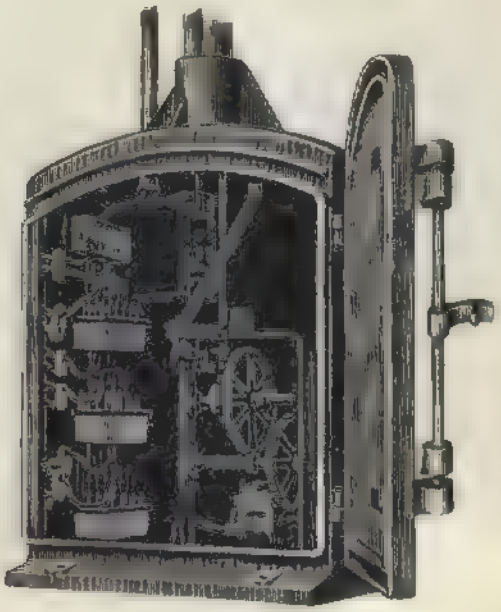
(Continued on page 91)

Automatic Highway Crossing Watchman

(Continued from page 90)

horizontal, motor driven, geared to thirty complete movements per minute. The arms and spectacle castings are so evenly balanced on center shaft, and bearings, that they can be operated by one hand.

Red lights are so arranged that signal arms and spectacle castings passing in front of them gives four perfect blinking lights with each complete movement of signal arms. These blinking lights are accomplished mechanically without opening or closing contacts which may become easily corroded or out of order from other causes.



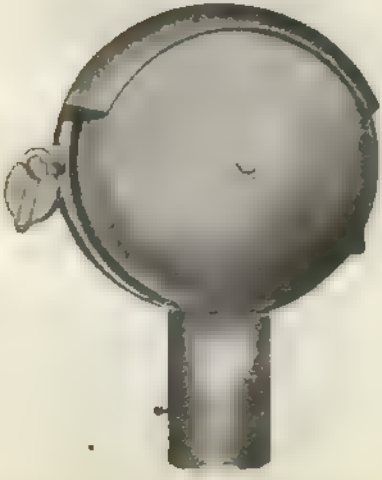
Section View of Relay Case

Can be operated either on 110 volts A. C. or primary battery. On 110 volts A. C., the apparatus complete, signal arms, two 2-candle power lamps and bell consumes less than minimum rate charged by most cities and towns. When primary battery is used, it operates on 22 cells R. S. A. battery.

Call at our factory when in the city and see the signal in operation, or write us for any further information you may desire.

Automatic Crossing Watchman

H S A Signal Cell

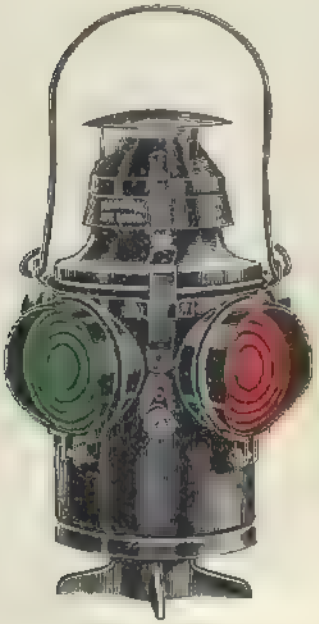


Bell with socket base for top of Automatic Watchman

Handlan Switch Lamp

Wind Proof, Rain Proof

No. 145



Made of No. 20 gauge cold rolled steel, reflector crimped with 6" lens or 5⅝-inch lenses any color, 28 ounce tank, Nos. 20, 40 or 60 series of Handlan burner, outside wick raiser, easy to clean; few repair parts.

For parts, see pages 58 and 59

Handlan No. 145 Switch Lamp Parts

See list of parts page 30

List of Parts for Handlan No. 145 Switch Lamps

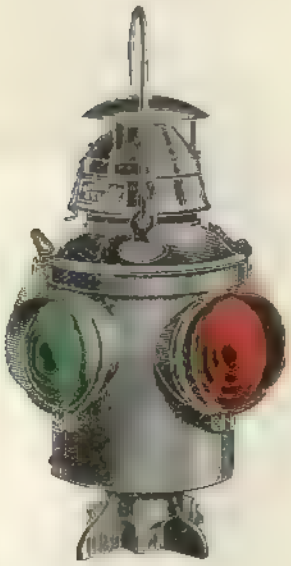
1. Smoke bell and cone.
2. Lens—give size and color
3. Lens gasket—give size
4. Drawbands.
4A. Plain lug, for drawband
4B. Tapped lug, for drawband
5. Drawband bolt.
6. Burner, Handlan—long time
7. Oil fount, No. 50, 28-ounce
8. Chimney
9. Wick, long time burning.
10. Oil fount handle holder
11. Cover spring
12. Cover spring stop.
13. Daylight signal target—give size and color of lens.
14. Base, malleable iron
15. Outside wick raiser, complete.
16. Outside wick raiser housing
17. Outside wick raiser shaft
18. Outside wick raiser shaft spring
19. Outside wick raiser shaft button
20. Plain slip collar for fount.
21. Threaded slip collar for burner
22. Oil fount handle.
23. Semaphore goggle
24. Oil fount seat
25. Body bottom.
26. Spider
29. Breast, only
30. Wind shield with ½-inch hinge.
31. Top cone with ½-inch hinge
32. Top cone staves
33. Top cone spring
34. Top cap spring.
35. Cone top, complete
36. Bail, only.
37. Ears for bail
38. Cone top hinge, complete
39. Cone top male hinge
40. Cone top female hinge
41. Hinge pin
42. Cover, complete.
43. Body
44. Cover hinge, complete
45. Male cover hinge.
46. Female cover hinge.
47. Cover hinge pin.

Handlan Switch Lamp

Wind Proof, Rain Proof

Practical Designs

No. 12



No. 20 gauge steel, retinned; 4⅛, 4½, 5 or 5⅝-inch lenses; 16-ounce fount; one day or long time burner; inside wick raiser. Hinged cover, large opening at top very convenient for cleaning lenses and interior of lamp.

All parts electric welded or riveted—no solder used.

For prices, see pages 61 and 62

Repairs for Handlan No. 12 Switch Lamp Parts

See list of parts, page 62.

List of Parts for Handlan No. 12 Switch Lamp

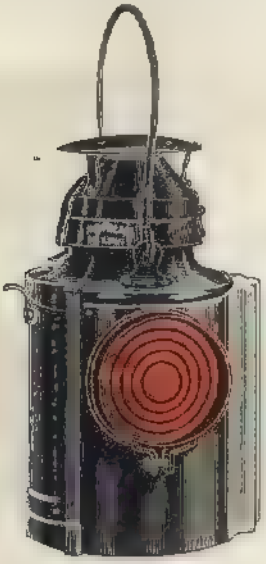
1. Smoke bell and cone
2. Lens—Give size and color
3. Lens gasket—give size
4. Drawbands
4A Plain lug, for drawband.
4B. Tapped lug, for drawband
5. Drawband bolt
6. Burner, Handlan long time
7. Oil fount No. 50, 28-ounce
8 Chimney
9 Wick, long time burning
10. Oil fount handle holder
11 Cover spring
12. Cover spring stop
13. Daylight signal target—give size and color of lens
14. Base, malleable iron
15. Outside wick raiser, complete
16. Outside wick raiser housing.
17. Outside wick raiser shaft
18. Outside wick raiser shaft spring
19 Outside wick raiser shaft button
20. Plain slip collar for fount.
21. Threaded slip collar for burner
22 Oil fount handle
23 Sempahore goggle.
24 Oil fount seat
25 Body bottom
28 Spider
29 Breast, only.
30 Wind shield with ½-inch hinge.
31 Top cone with ½-inch hinge.
32 Top cone staves.
33 Top cone spring
34 Top cap spring
35 Cone top, complete
36 Bail only
37 Ears for bail
38 Cone top hinge, complete
39 Cone top male hinge.
40 Cone top female hinge
41 Hinge pin
42 Cover complete
43 Body
44 Cover hinge, complete
45 Male cover hinge
46 Female cover hinge.
47 Cover hinge pin.

Handlan Signal Lamps

No. 101 Crossing Gate Lamp
With 6-inch 360° yellow fresnel lens; No. 1 signal burner, short shaft

No. 98 Caution Lamp
With one 4½-inch yellow roundel.

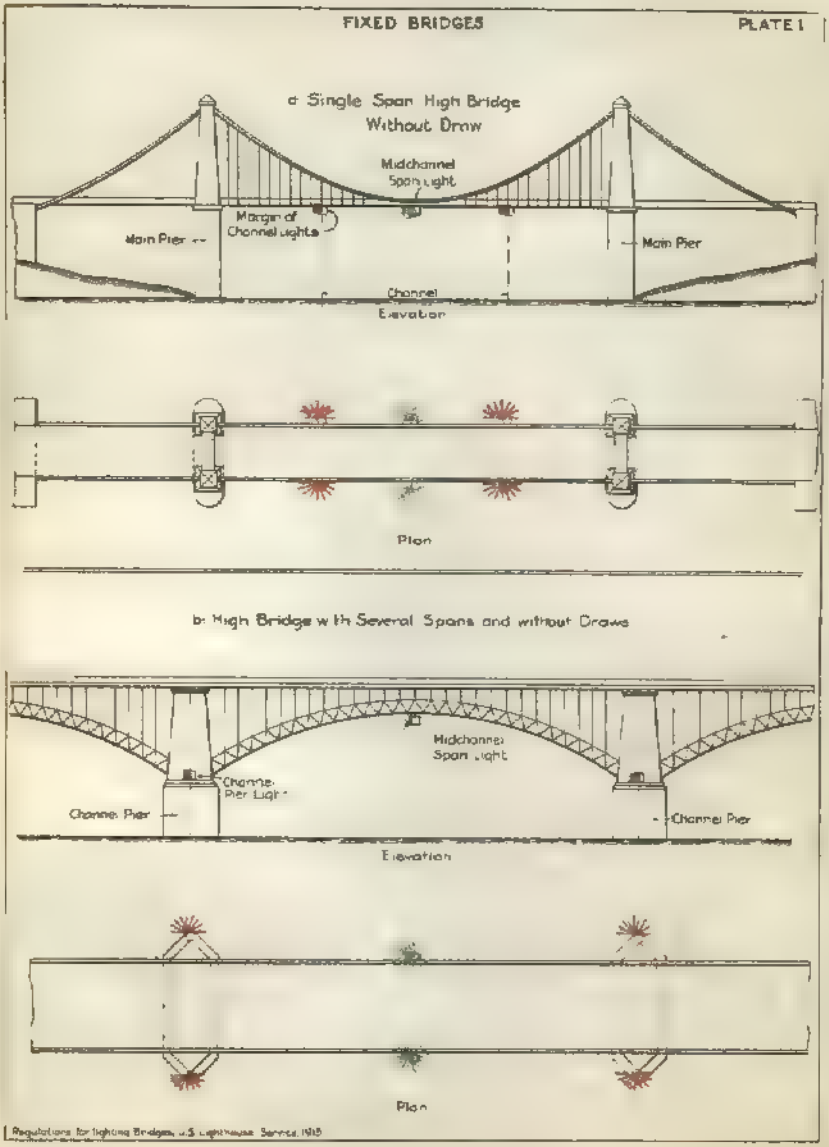
No. 99 Resume Speed Lamp
With one 4½-inch green roundel



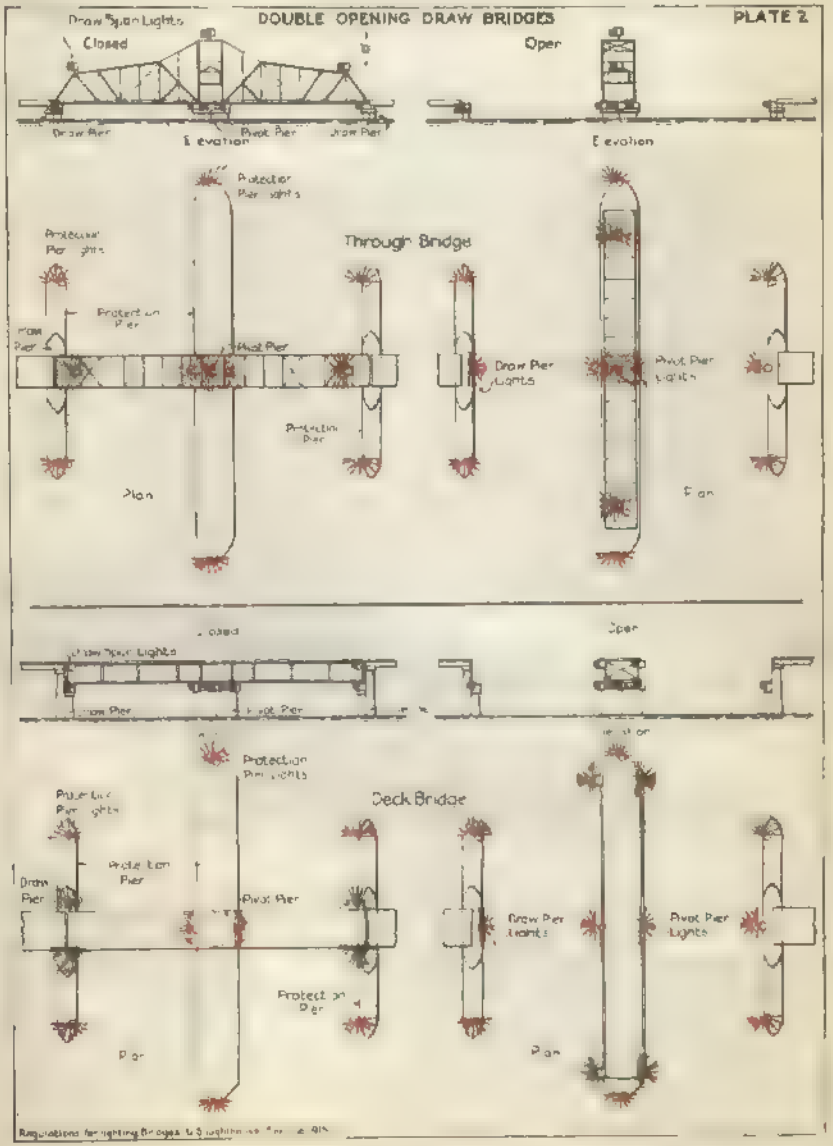
No. 38 Slow Lamp
With one 4½ inch yellow lens
No. 48 Stop Lamp
With one 4½-inch red lens

No. 162 Crossing Gate Lamp
With two 4½-inch red roundels Can furnish with one roundel if desired.

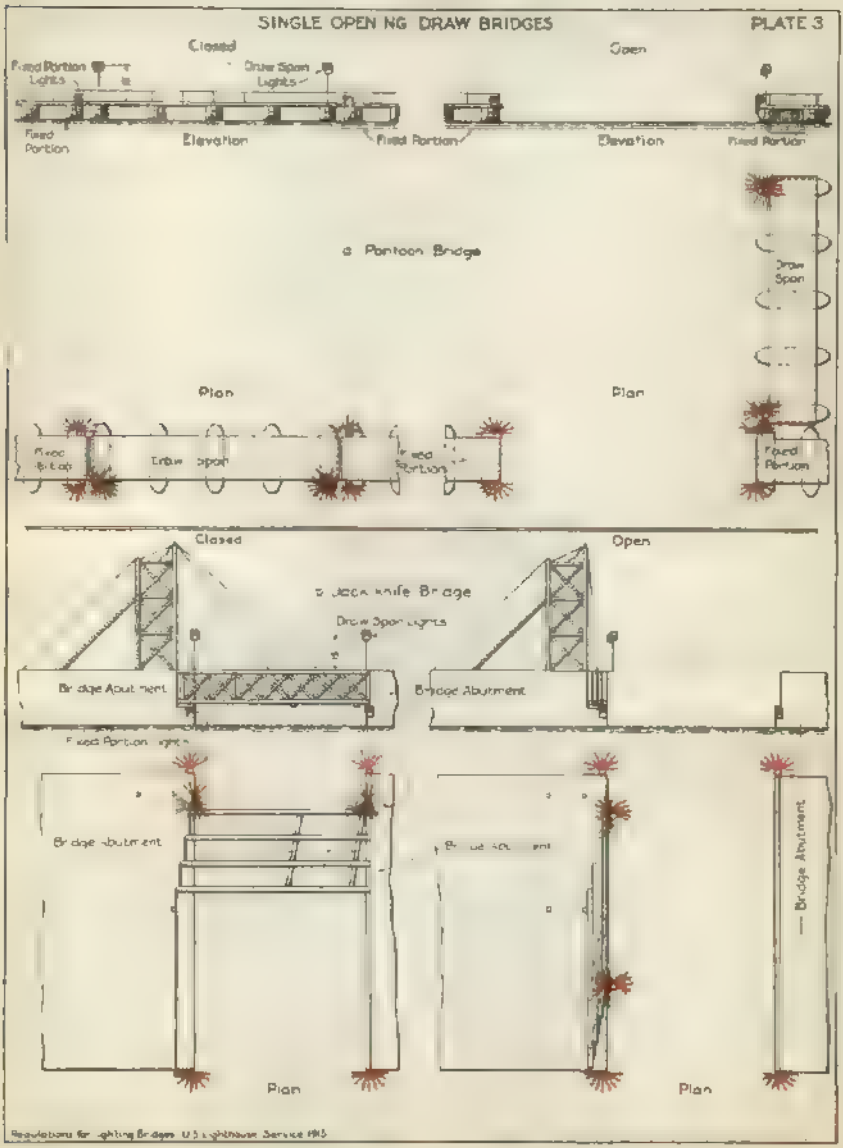
Regulations for Lighting Bridges



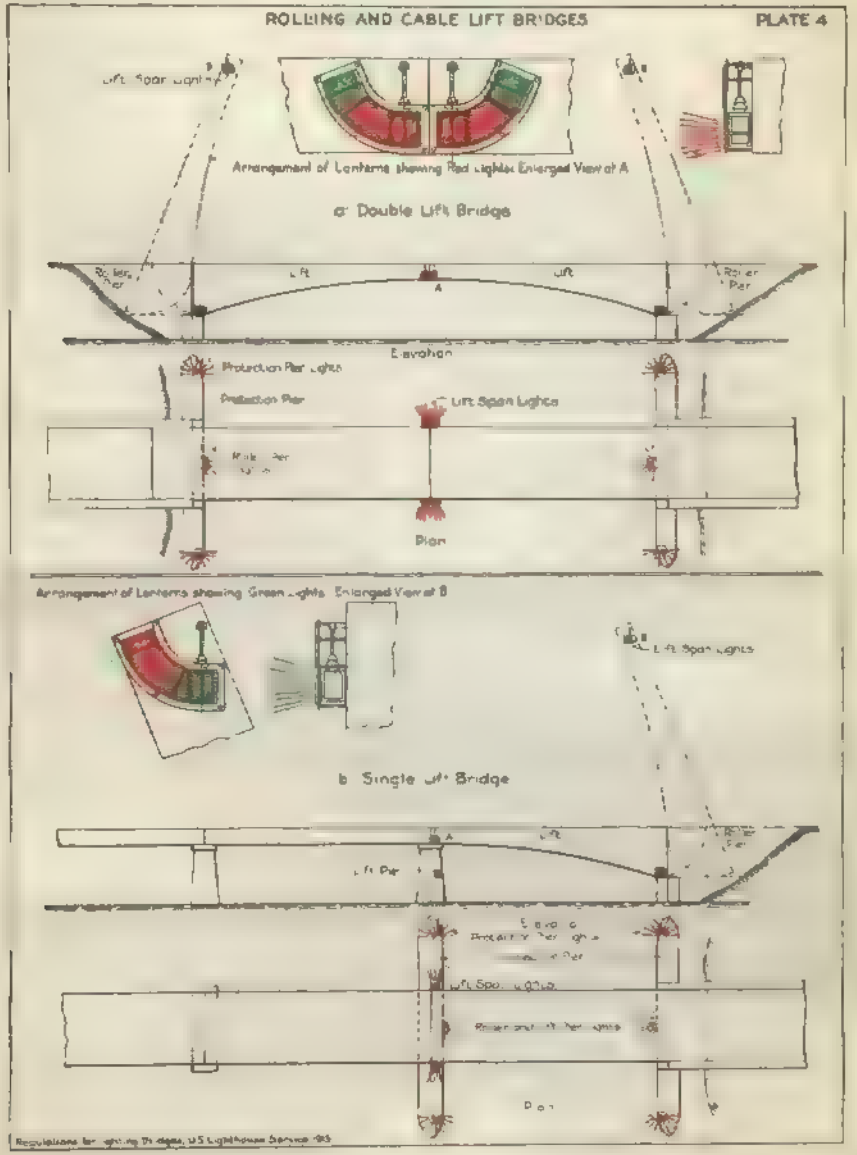
Regulations for Lighting Bridges



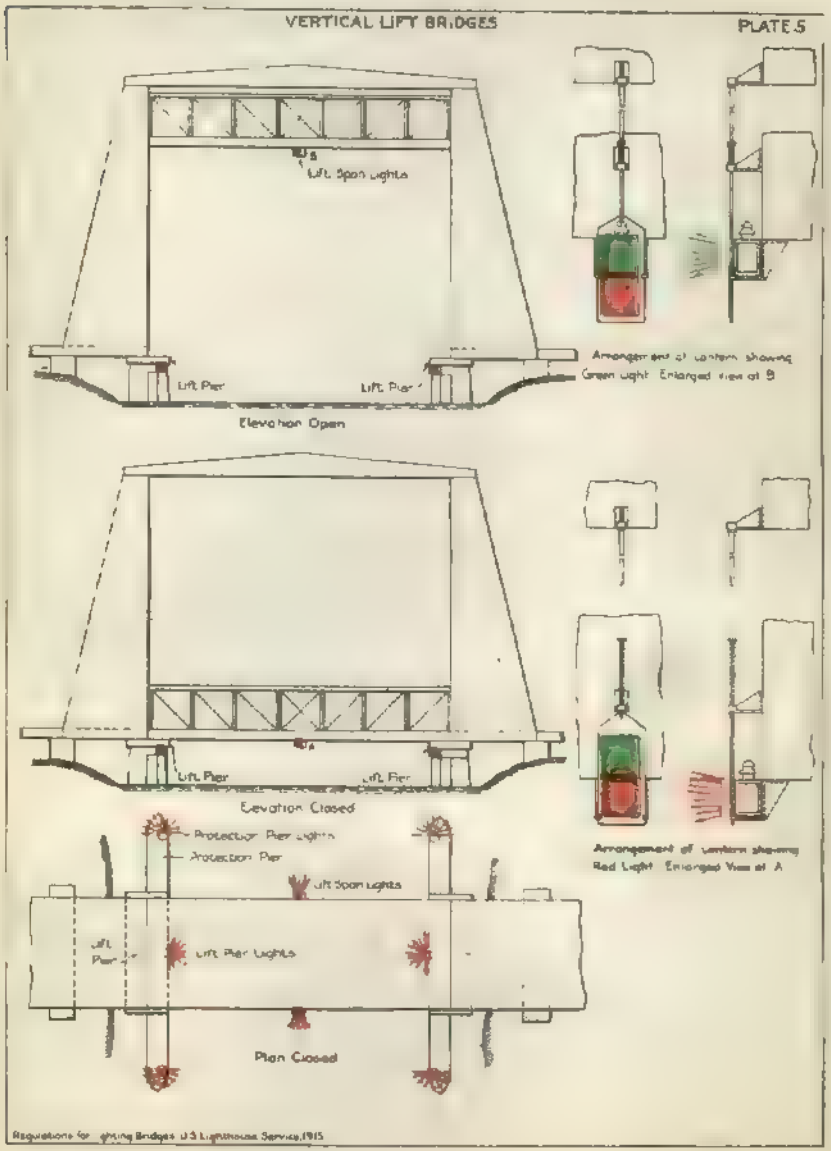
Regulations for Lighting Bridges



Regulations for Lighting Bridges



Regulations for Lighting Bridges



Handlan Top Draught Ventilation

Signal lamps in railroad usage are of such great importance in obtaining safe operation of trains that unusual efforts have been put forth by us in the last twelve years to perfect a type of ventilation that will "stand up" and not sweat under the most severe weather conditions, viz: High winds driving rain, snow and sleet storms, also extremely hot and humid weather.

We have been building our semaphore lamps, switch lamps, marker lamps, in fact all of our signal lamps with the well known type of Handlan top draught ventilation which has proven to be rain proof, cinder proof, wind proof and frost proof.

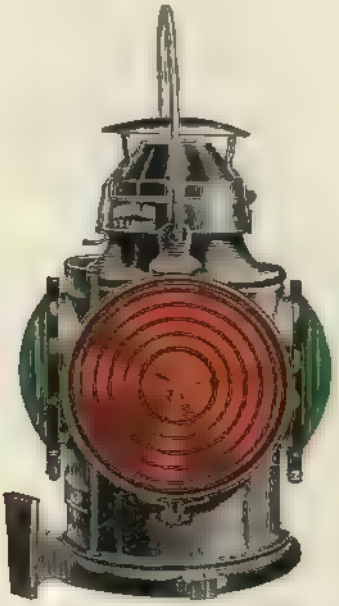
As lamp manufacturers we thoroughly realized the necessity of constructing a lamp with a ventilator of greatest simplicity, and of a type that really equalizes the air currents. We employ no solder in joining the parts in our ventilation, we use no metal screening or perforated metal as we used formerly on the old pattern of signal lamps, as we found it corroded and rust formed very quickly. We also found that insects, cinders, road bed dust, in fact foreign matter were drawn into and would cling to the metal screening, restricting the passage of air and necessitating continual cleaning to insure results. Our ventilation is not exposed, being well protected with a solid drawn shield, which strong winds accompanied by rain or snow drive against our lamps, the exterior shield over the outer inlets divert the elements, insuring protection for the flame.

Ventilation of our signal lamps is constructed so as to entirely prevent high winds from extinguishing the light by neutralizing the overcharge. Violent blasts of air or high winds are thus counteracted and dispelled before entering interior of lamp body and take the course of least resistance and pass again to the outer air additionally attracted by the escaping hot air.

After the required amount of air passes through the ventilator and while entering the body it is diffused by the flanged cone which causes the cold air entering the body to work down the sides of the lamp before it reaches the flame. When lamps sweat, the fact is, air is forced into the ventilator and with no other egress available the excess supply enters warmed interior of lamp and condensation is the natural result. Our system of ventilation eliminates the formation of vapor prevents the sweating of lenses, and assures a uniformly steady burning light under every atmospheric condition.

Handlan Tail End Markers

Optical lenses are constructed so as to force the reflected light a great distance, but in narrow restricted beams. It naturally follows that unless markers "stand up" when in car sockets that the full benefit of the lenses penetrating qualities will not be obtained if the lamps 'droop over' and bury the protecting long distance rays in the ground.



Handlan No. 79 Straight Body Tail End Marker

Equipped with any number, size, or color of lenses requested

Handlan Tail End Markers 'stand up' in the socket and afford the greatest possible protection to the rear end of trains, by using to the fullest advantage the principle embodied in optical lense construction.

Handlan Tail End Markers

Nearly every railway that we supply with marker lamps have abandoned the purchase of the flaring style and specify the straight body type on their orders.

Our experience has shown that the flaring base markers "sag" in the socket especially after they have been in use for some time, while our straight body style "stand up" in service as well when they are old as when new, because their turning ring and grooved bind support are both made of malleable cast iron, lathe turned to perfect uniformity. Besides having a circumference three times greater than the flaring base style

Our Old Flaring Base Style

One of our old style flaring base markers intentionally damaged to show disadvantages.

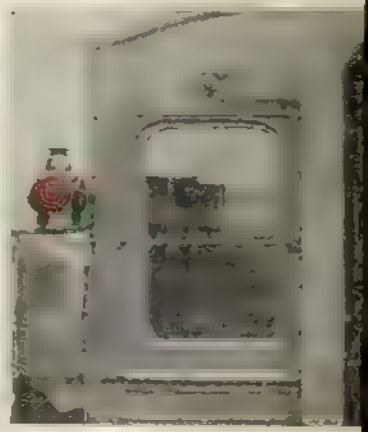
We also found that the flaring base style would not withstand the ordinary rough usage they are subjected to and when accidently dropped or struck against any obstruction the flaring base would bend and prevent lamp being turned, thereby rendering them useless and difficult to straighten or repair

Handlan Tail End Markers

A contrast showing the protection afforded by the focal plane of our straight body No. 79 markers, compared with the waste of light and diminished safeguard of markers which droop over, as shown by the flaring base style

Handlan No 79.

Photographed on same car and socket.



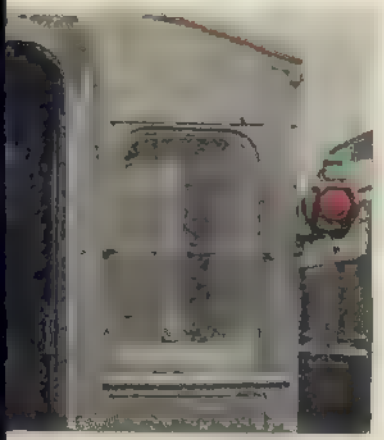
Flaring Base Style.

We manufactured both markers, but soon realizing the imperfections of the flaring base construction, we experimented until we perfected the straight body style known as HANDLAN NUMBER SEVENTY NINE

(See Next page.)

Handlan No. 79 Tail End Markers are popular because they **"stand up"** in the socket and withstand more rough usage than the flaring base style.

Flaring Base Style.



Photographed on same car and socket

Handlan No. 79.

No. 79 Tail End Marker Parts

See page 37 for list.

No. 79 Tail End Marker Parts

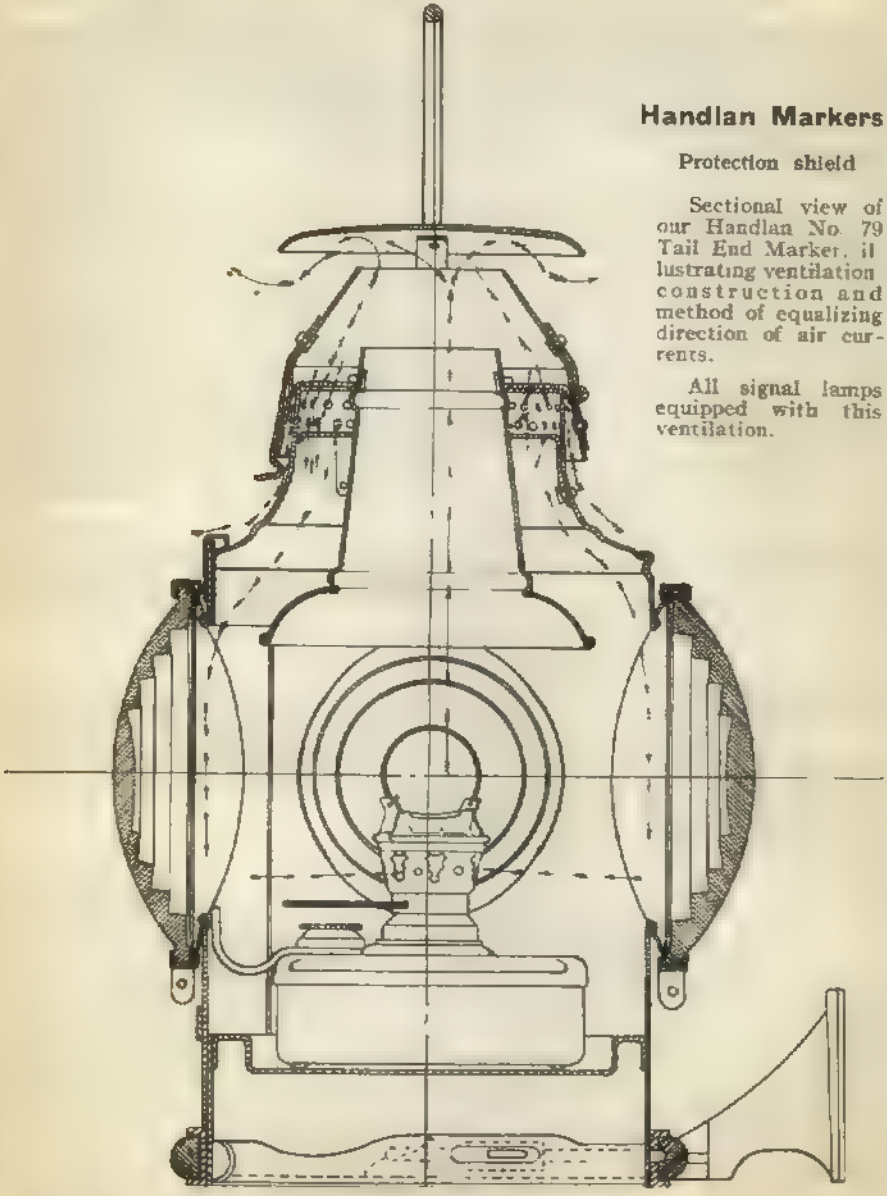
1 Smoke bell and cone.
2 Lenses—red and green—give size.
3 Lens gasket—give size.
4 Draw bands.
5 Draw band bolts.
6 Burner
7 Oil fount
8 Bracket.
9 Base ring.
10 Hand hold, complete
11 Hand hold, only
12 Hand hold lug for bolt
13 Hand hold, trigger bolt.
14 Hand hold spring
15 Bolt and nut for No. 8 bracket
16 Body bottom and oil pot seat
17 Burner shaft key hole slide.
18 No. 4 feeder collar
19 No. 4 feeder cap.
20 No. 1 lamp collar.
21 Door brace.
22. Stop rivets.
23. Semaphore goggle
24 Door with goggle.
25 Plain door for 3-lens lamp
26. Water shed.
27 Top body bridge
28 Spider.
29. Breast only.
30 Wind shield with ½-inch hinge
31. Top cone with ½-inch hinge
32. Top cone staves.
33. Top cone spring.
34. Top cap.
35 Cone top, complete
36. Bail
37 Ears for bail.
38 Hinge, complete.
39 Male hinge.
40 Female hinge.
41 Hinge pin.
42. Cover, complete.
43 Body.

Handlan Markers

Protection shield

Sectional view of our Handlan No. 79 Tail End Marker, illustrating ventilation construction and method of equalizing direction of air currents.

All signal lamps equipped with this ventilation.



VIEWS OF OUR AXE HANDLING DEP'T.

A MODERN AXE HANDLING DEPARTMENT

For many years a lot of our Axes have been handled by up-to-date Axe Experts and they know how to make Axe Handles. Each Axe [illegible] This is one reason why our Axes are always perfect and [illegible]

[illegible] DIAMOND EDGE. We [illegible] Axe [illegible] Axe [illegible]

We have a variety of [illegible] Axes [illegible]

All Axes [illegible]

SEND US YOUR AXE ORDERS

"DIAMOND EDGE IS A QUALITY PLEDGE"

SEVENTY-FIVE YEARS OF PROGRESS

OUR FIRST BUILDING

1843 1918

Seventy-five years of business marks our DIAMOND JUBILEE, a record only made possible by loyalty and fair dealings with our customers.

Our business has kept pace with the times.

In our large establishment, every known up-to-date practical method of modern business is in use to give our customers the service which will warrant a continuance of their patronage.

"GOOD SERVICE" IS OUR APPRECIATION OF YOUR BUSINESS.

OUR PRESENT MAIN BUILDING

"DIAMOND EDGE IS A QUALITY PLEDGE"

WHERE *DIAMOND EDGE* AXES ARE MADE

THE FACTORY WITH A RECORD FOR HIGH QUALITY

"DIAMOND EDGE IS A QUALITY PLEDGE"

DO YOU WANT THIS··?
HIGH CLASS ELECTRIC SIGN!

SHAPLEIGH HARDWARE CO. DE DIAMOND EDGE

WE HAVE ONE FOR EVERY DIAMOND EDGE TOOL DEALER

"ORIGINATED BY US"

They ADVERTISE YOUR STORE

They HELP YOU SELL GOODS

THIS ELECTRIC SIGN WITH YOUR NAME ON IT ADVERTISES YOUR BUSINESS DAY AND NIGHT, COSTS LESS THAN $1.00 PER MONTH FOR 6 HRS. PER DAY TO OPERATE

ASK FOR THE PLAN

WE GIVE THESE ATTRACTIVE ELECTRIC SIGNS TO OUR CUSTOMERS HANDLING DIAMOND EDGE TOOLS

THIS SHOULD INTEREST ALL WIDE AWAKE MERCHANTS

WRITE US OR ASK OUR SALESMAN

"DIAMOND EDGE IS A QUALITY PLEDGE"

SHAPLEIGH HARDWARE CO
DE
DIAMOND EDGE

DIAMOND EDGE TOOLS

"NONE BETTER MADE"

Handlan Cupola Lamps

No. 60

Four-lens lamp, with steel blinds covering lenses not in use, operated from inside of caboose, equipped with 4½-inch lenses

No. 83

Two-lens lamp, one 6⅞-inch red lens and one 5⅞-inch green lens, and interior steel blind obscure lens not in use, lamp is stationary; shield operated by device in base of lamp

No. 83

No. 62

Four-lens lamp, with steel blinds covering lenses not in use, operated from inside of caboose, equipped with 6¾-inch lenses

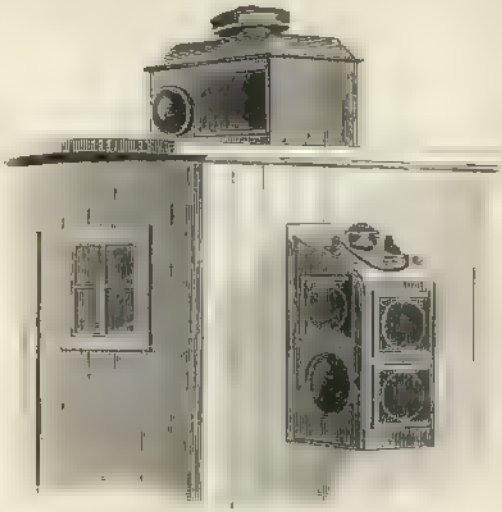
No. 68 Cotton Belt Cupola Lamp

Two-lens lamp, one red and one green lens, operated from inside of caboose; equipped with 4½-inch lenses

No. 68

Watts' Caboose Lamps and Tail Markers

In Position as a Cupola Lamp on Top of Car



In Position as a Side Lamp on Side of Car

No 30 **Cupola Lamp**

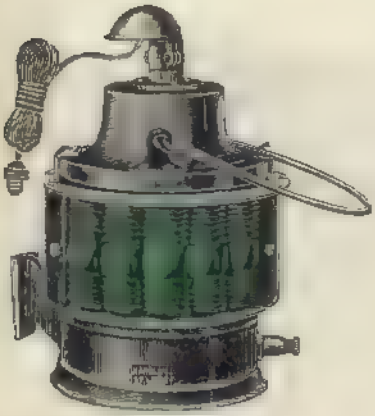
Their special merits are a steady, powerful light and comparatively low cost; light up the interior of the car very well and can be extinguished without being instantly discovered

No 47 **Side or Marker Lamp**

Interior of Lamp Showing the Two Combustion Chambers

Signals are transmitted by means of a simple lever from one platform to another [illegible] the inside of the car

Handlan Electric Radius Engine Lamps



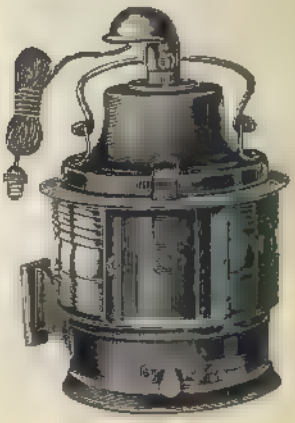
No. 88

No. 88

Maximum Efficiency and Safety

When electric headlights are used radius lens lamps are more reliable.

Showing full view of green lens; white lens of same size on opposite side, an interior steel blind obscures the lens that is not showing indication; brackets arranged to place lamp on right or left side or front end of locomotive. Advise location of lamps on locomotive



No. 91

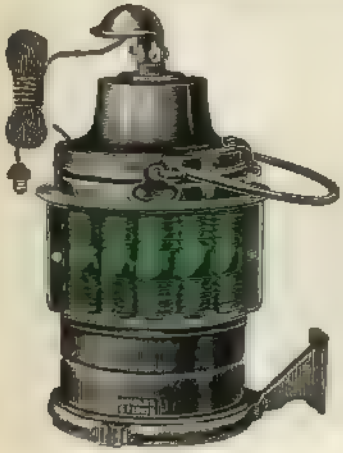
No. 91

Side view, showing part of white and green lens; an adjustable steel blind obscures the lens not showing indication. This lamp can be placed on either side of locomotive, no rights or lefts; simply and durably constructed; no interior parts to cause expense; no inner glasses to replace

See page 140, describing lenses

Handlan Electric Radius Engine Lamps

Safe and Sure Indications to Trainmen and Dispatchers



No. 89

No. 89

Showing full view of green lens, covering a radius of 130 degrees; white lens of same size on opposite side. This lamp, equipped with combination base and bracket, as above, is adaptable to either side or front, or rear end of locomotive; no right or left lamps; an adjustable steel blind obscures the lens not in use

Handlan Engine Lamps

No. 80 Engine Lamp

For Electricity Only

With two each 5⅜-inch white and green Spreadlite lenses; interior revolving steel blind obscuring lenses not in use; no inner glass or fixtures; simply and durably constructed; blind operated from outside of lamp

No. 80

Handlan Electric Switch and Signal Lamps

No 86 **Radius Electric Switch Lamp**

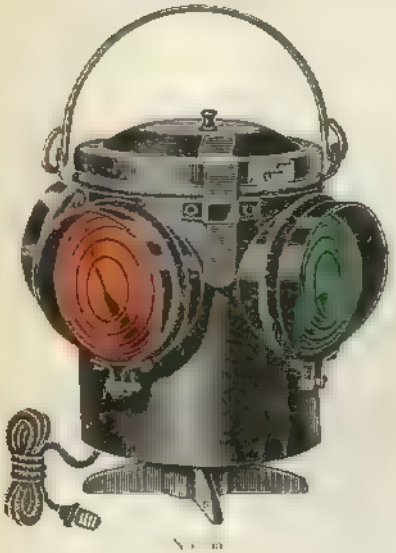
The spread of light not only covers a radius of 79 degrees but radiates above and below the center line of lense, thereby displaying clear indications on grades, and on stands where at times lamps do not lie perfectly

In view of so many inquiries and requests from railroads for a more efficient switch lamp on curves, we have after considerable experimenting, perfected a type of radius lamp that has thoroughly met the extreme requirements for this particular service

A service test will determine if greater efficiency and greater safety is obtained on curves, and we suggest a comparative test with your present standard switch lamp

Very substantial construction throughout. Built of No 18 gauge cold rolled steel, retinned The special lenses are well protected All parts riveted, solid malleable iron base, rust proof; easy to clean

Handlan Electric Switch Lamps



No. 55

No. 20 gauge steel, retinned equipped with 4⅛, 4½, 5 or 5⅝-inch lenses, hinged cover; large opening at top; very convenient for cleaning lenses and interior of lamp, all parts electric welded or riveted

Complete with electric socket

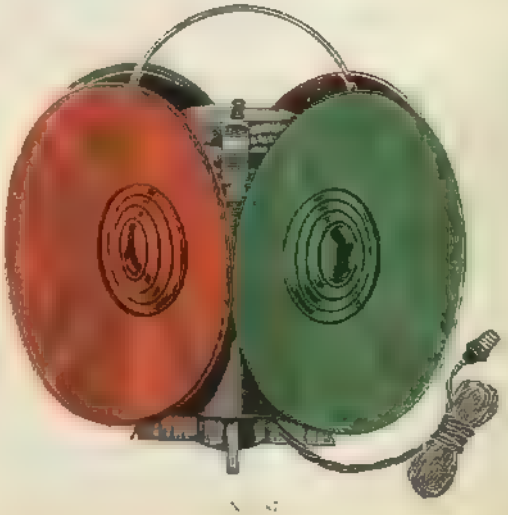
No. 87

Top cover opening easy to clean, enameled iron lens targets

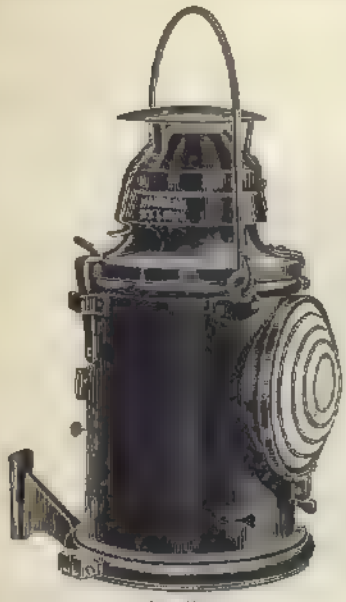
No target on switch stand required

No. 20 steel, retinned, equipped with 4⅛, 4½, 5 or 5⅝ inch lenses

Complete with electric socket.



Handlan Signal Lamps

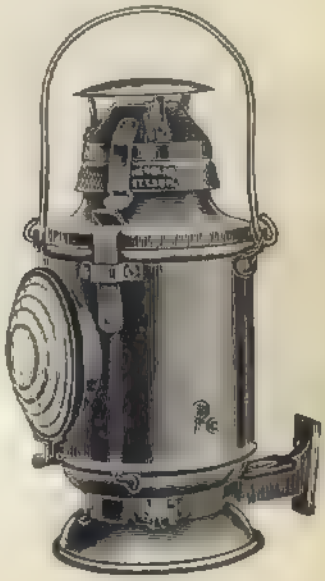


Handlan Front and Rear Signal Lamps for Electric and Interurban Roads

Made of cold rolled steel, retinned, seamed, riveted and soldered, seamless drawn oil pot; no leakage or rust

Straight body with Handlan combination base and bracket. This lamp has the Handlan arrangement for instantaneously changing the signals without opening the lamp or removing it from the socket. Shows a combination of three signals, red, white or green. Safe and sure. Repairs reduced to a minimum. Can be used on sides or end of car

Equipped with one 5⅜-inch white lens and one red and one green glass on inside. Can also furnish with any color lens and without interior glass



No 118

Handlan Signal Lamps for Street and Interurban Railroads

Shows either a red, white or green signal by simply turning small lever at base of lamp

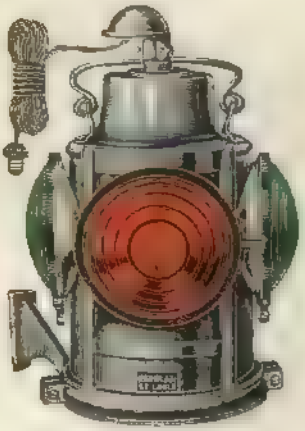
The adjustable brackets allow the lamp to be used on either the dash or side of car

Signals are changed and flame is regulated without removing, lifting or opening the lamp

Equipped with one 5⅜-inch white lens and one green and one red glass.

Special lamps with any number of lenses of any color and size can be furnished to meet special requirements.

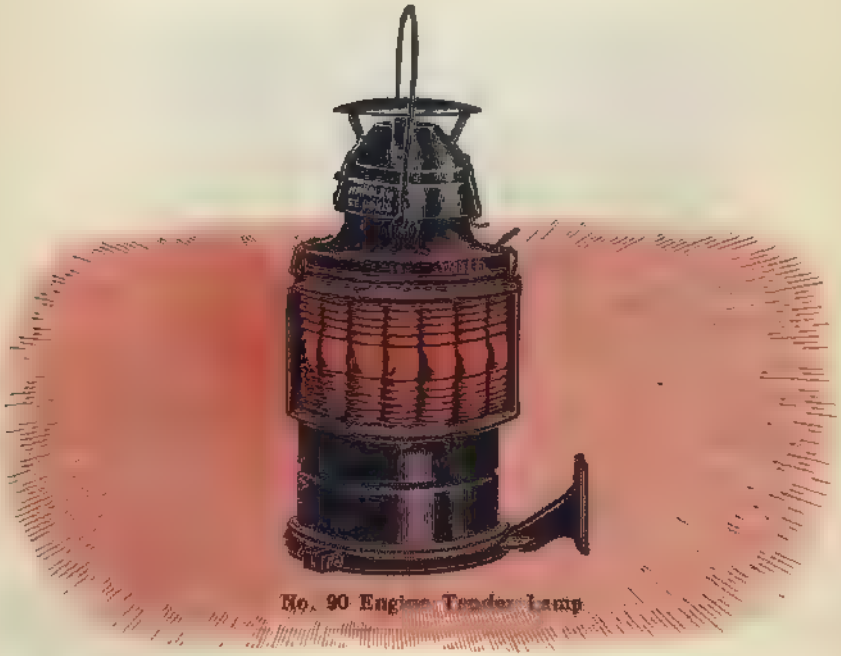
Handlan Electric Tail End Markers



No. 92

Anticipating the demand for markers to be lighted by electricity the above cut shows the arrangement for this purpose

Handlan Radius Engine Tender Lamps



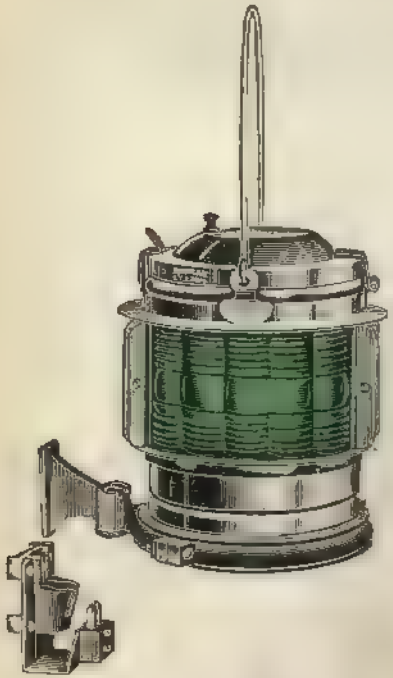
No. 90 Engine Tender Lamp

Showing Full View of Red Radius Lens Covering a Radius of 130 Degrees

Lamps are equipped with the Handlan top draft ventilation, which is so constructed as to prevent rain cinders, road dust or snow from entering interior of lamp or of clogging up the free passage of air. The intake air passages are constructed so as to prevent sudden gusts or high winds from entering interior of lamps. Such overcharges are forced into the outer air through the hot air vents.

See page 140, describing lenses

Handlan Engine Lamps



No. 114

No. 114

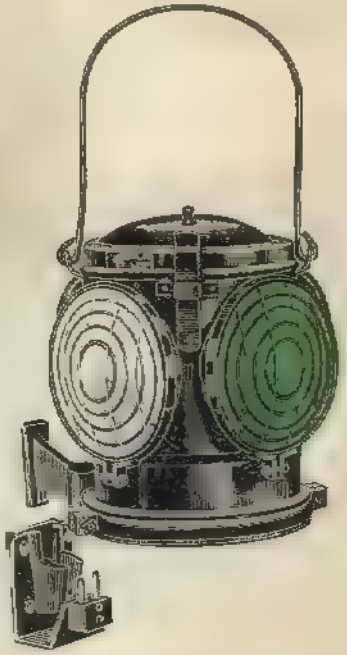
For Electricity Only

With one white radius lens and one green radius lens; interior blind obscuring lens not in use; no inner glasses or fixtures; blind operated from exterior of lamp at base; automatic electric connection made when placing lamp in socket.

See page 140 for description of radius lens

No. 85 Engine Lamp

With two each white and green Spreadlite lenses; interior shield obscuring lenses not in use; no inner glasses or fixtures; shield operated from exterior at bottom



No 85

Handlan Engine Lamps

No. 24

No. 24 Radius Engine Lamp

With one green and one white radius lens, an interior steel blind obscures one lens while other lens is displaying the desired indication, No. 00 Signal burner, outside wick raiser.

No. 109 Tender Tail Lamp

With one 5¾-inch red lens; No. 1 signal burner, outside wick raiser

No. 109

Handlan Emergency Headlights

No 127

No. 127 Emergency Headlight

With one 6¾-inch white semaphore, 31-ounce oil fount, No. 1 Signal burner and nickel plated reflector; has sheet steel pocket for attaching to bracket on engine or with two wrought iron hooks instead of pocket.

No 117

No. 117 Electric Tender Tail Lamp

With one 4½-inch red lens

Handlan Engine Lamps

No 68

No. 68 Engine Lamp

Flaring Base — For Oil Only

With two 5⅜-inch white lenses and two 5⅜-inch green lenses, interior steel blind obscuring lenses not in use.

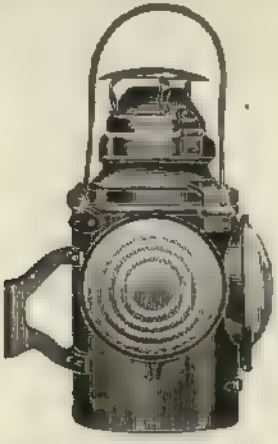
No. 82 Engine Lamp

For Oil Only. One-Piece Body

With two 5¼-inch white Spreadlite lenses and two 5⅜-inch green Spreadlite lenses, interior steel blind obscuring lenses not in use; no inner glasses or fixtures; simply and durably constructed; steel blind operated outside of lamp

No 82

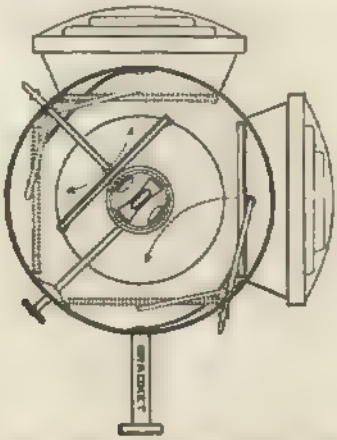
Handlan Engine Lamps



No. 157 Wells Engine Lamp

For Oil Only

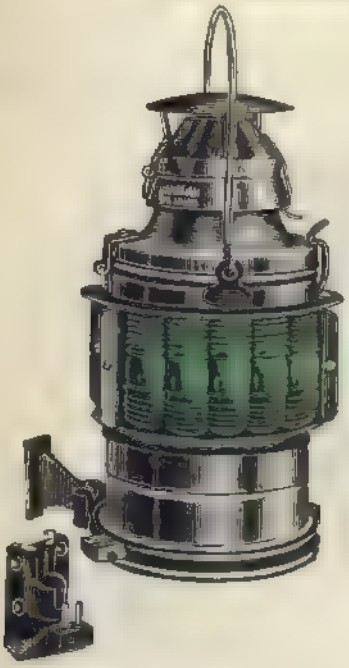
The special features of this improvement are the use of lenses of required size and color, together with wings, or frames, holding colored glasses which when not in service are retained inside of and against the casing of the lamp, but may be revolved from the outside and interposed between the lens and burner by simply moving the smaller levers projecting outside the lamp, avoiding any necessity for turning, removing, or even opening the lamp—the action being simple but positive, and readily understood by reference to the sectional cuts.



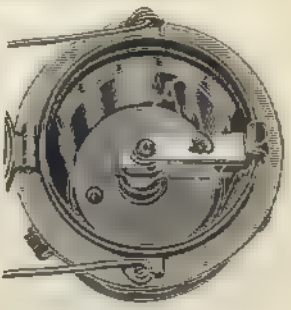
Sectional View of Two-Lens Lamp, Showing Action of Wings with Colored Glass in Changing Signal from White to Red or Green as Desired

Handlan Engine Lamps

Combination Oil and Electric with Radius Lenses



No. 73



No. 73

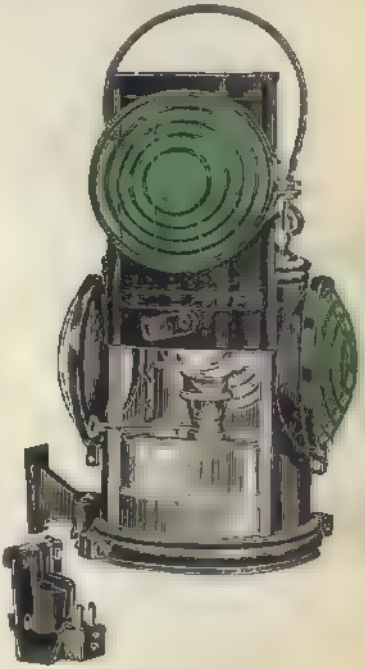
Electric connection is made automatically when placing lamp in socket; top opening easily to clean; equipped with radius lenses, one each green and white; interior steel blind obscuring lens not in use

No. 84

Same as No. 79, with white and green

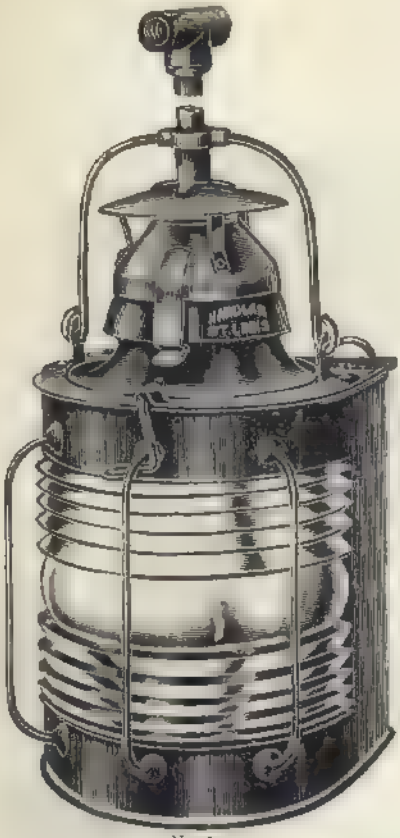
With Electricity and Oil

Same construction as No. 73, except has side-door opening



No. 84

Handlan Signal Lamps



No. 53

No. 53 Lift Bridge Lamp

With 8-inch 180° white fresnel

Signal Frame

No. 219 Lift Bridge Signal Frame

With Colored Glass

With red and green signal glass.

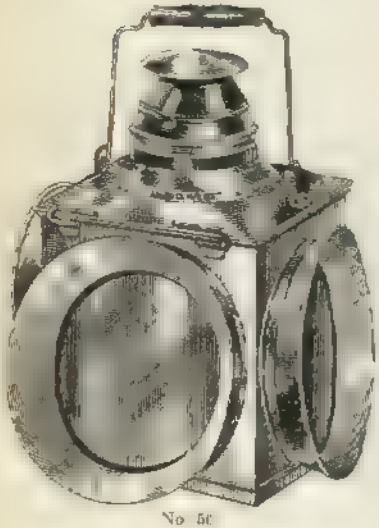
No. 219

Handlan Signal Lamps

Government Marine and River Lights

In Brass, Copper, Galvanized Iron or Tin

For Electricity or Oil Perfect Ventilation Powerful Light



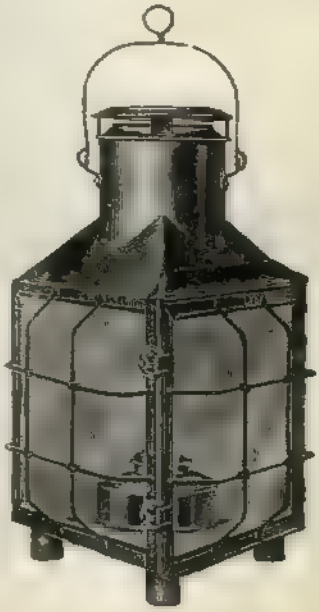
No. 56

No. 56 8¾-Inch Four-Way Draw Bridge Lamp

With two 8⅝-inch green roundels, and two 8⅝-inch red roundels, and 8-inch 360° white fresnel

No. 122 River Light

Triangular post lamp, U. S. L. H. Department standard



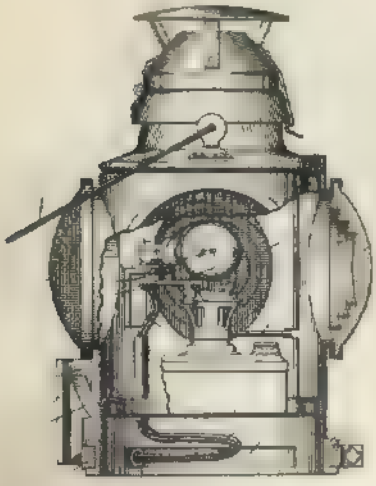
No. 122

Handlan Tail End Markers

Combination Electric and Oil

No. 155 Tail End Marker

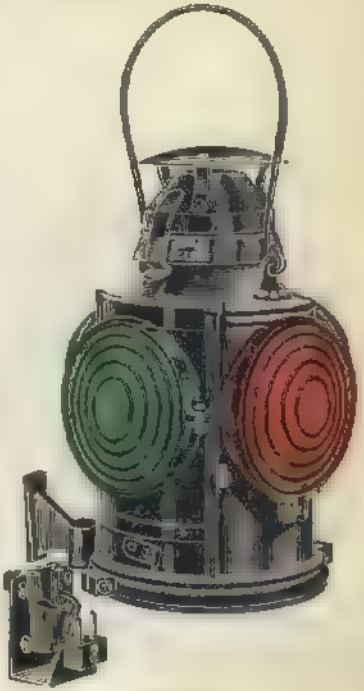
Electric contact is made when placing marker in socket, no drop cords or loose wires. When electricity fails turn incandescent bulb to side of lamp and lock (see sectional cut) then light oil burner



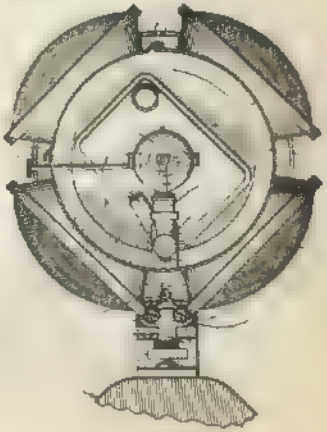
No. 155

Displaying automatic electric connection when lamp is placed in socket.

Lamp equipped with any number and and size or color of lenses.



No. 155



No. 155

Handlan Tail Platform Lamps

No. 69

No. 69

With one $8\frac{3}{8}$-inch red lens and two side lights; sliding door opposite lens

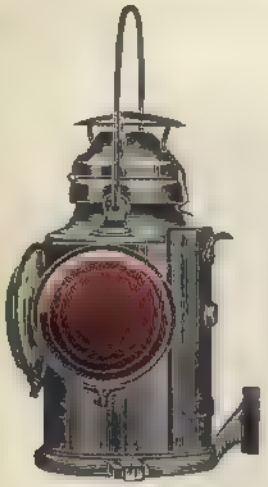
No. 59

With one 8-inch red lens; no side lights, sliding door opposite lens

No. 59

Handlan Tail End Markers

Straight Body with Combination Base and Bracket



No. 29

Three-Lens Lamp

Three-lens lamp, side door opening, with two 5⅜-inch green and one 5⅜-inch red lens

No. 54

Four-Lens Lamp

Four-lens lamp, top opening; with three 5⅜-inch green and one 5⅜-inch red lens

Each piece with any color of lenses desired or any size

Flaring Base

No. 58

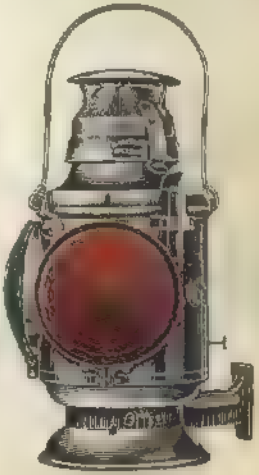
Four-Lens Lamp

Four-lens lamp, top opening; with three 5⅜-inch green and one 5⅜-inch red lens; any size lens furnished

No. 77

Three-Lens Lamp

Three-lens lamp; top opening, with two 5⅜-inch green and one 5⅜-inch red lense; any size lens furnished.

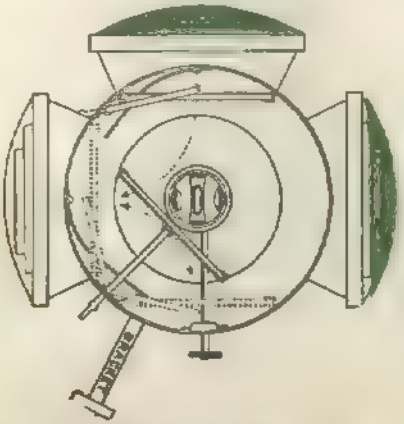


Handlan Tail Lamps

Handlan No. 161 Tail Lamp

Lamps are made with lenses of any desired colors or sizes, and arranged to effect any combination of signal wanted

Workmanship strictly of the highest character, and materials the best obtainable, cases being of cold rolled steel tinned and japanned.



Sectional View of Three-Lens Lamp Showing Action of Wings with Colored Glass in Changing Signal from White to Red or Green as Desired.

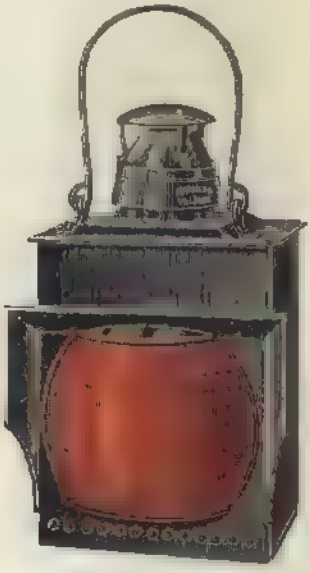
Handlan Tail Platform Lamps

No. 63 Tail Platform Lamp

With 8-Inch 90-Degree Red Lens and Standard Handlan Ventilation

Plainly visible on the sharpest curves. Reliable and efficient rear end protection

No. 63
Side View



No. 63
Front View

For Passenger Service

Our lamp is equipped with a special radius lens, which is vastly more efficient than the old type of fresnel lens as used aboard ships and steamboats. It displays a powerful red signal covering 90 degrees. The surest and safest protection for rear end of train

Handlan Cupola Lamps

No. 64. Caboose Cupola Lamp

No. 64
Front or Rear View

No. 64
Side View

With 8-Inch 90-Degree Lenses

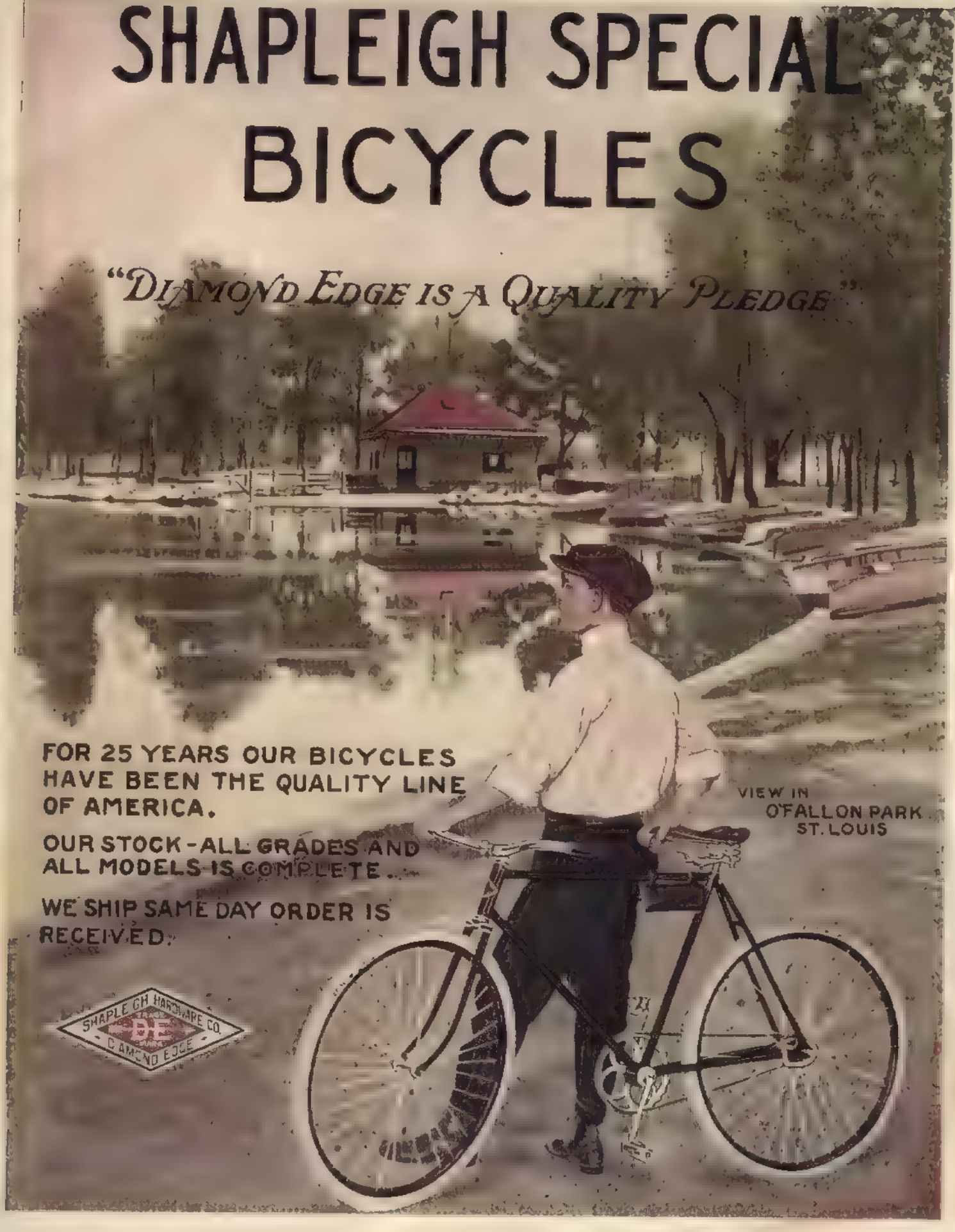
Displays an indication around the sharpest curves. Reliable and efficient rear end protection.

For Freight Service

Lamp is equipped with a special radius lens of the same type as used on our No. 63 tail platform lamp. It throws a wide shaft of light, spreading illumination covering a radius of 90 degrees. The lamp is made of heavy cold rolled steel and is mounted on top of cupola permanently. Signals are made by adjustment from inside of caboose.

SHAPLEIGH SPECIAL BICYCLES

"DIAMOND EDGE IS A QUALITY PLEDGE"



FOR 25 YEARS OUR BICYCLES HAVE BEEN THE QUALITY LINE OF AMERICA.

OUR STOCK - ALL GRADES AND ALL MODELS IS COMPLETE.

WE SHIP SAME DAY ORDER IS RECEIVED.

VIEW IN O'FALLON PARK ST. LOUIS

SHAPLEIGH HARDWARE CO. DE DIAMOND EDGE

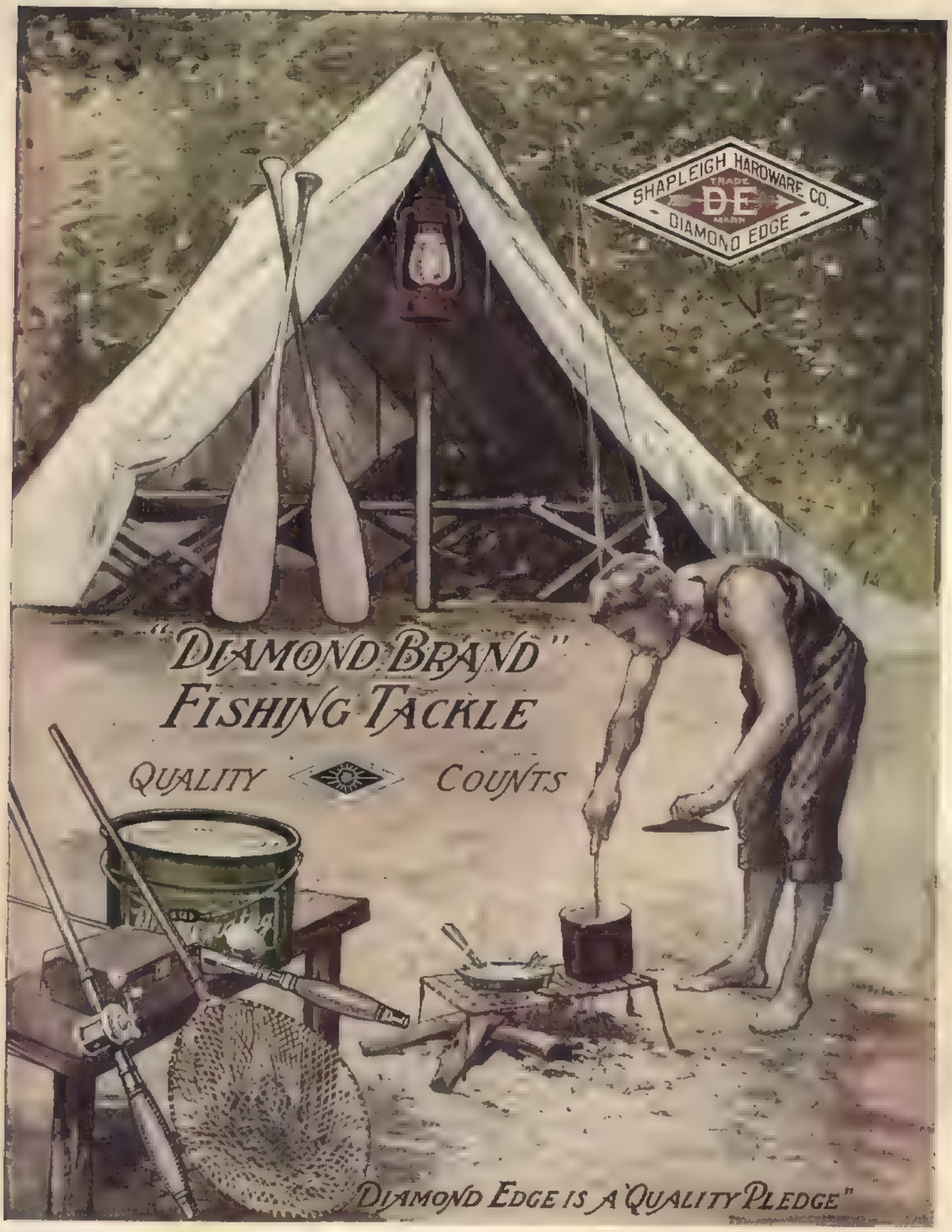
MANSFIELD TIRES

4,000 MILE GUARANTEE

EXCLUSIVE AGENCY GIVEN TO HIGH GRADE MERCHANTS

MORE MILES PER DOLLAR

THE HAND BUILT TIRE FOR MILEAGE


SHAPLEIGH HARDWARE CO.
TRADE
DE
MARK
DIAMOND EDGE
"DIAMOND BRAND"
FISHING TACKLE
QUALITY COUNTS
DIAMOND EDGE IS A "QUALITY PLEDGE"

SHAPLEIGH HARDWARE CO.
DE
DIAMOND EDGE
"DIAMOND EDGE IS A QUALITY PLEDGE"

"DIAMOND EDGE IS A QUALITY PLEDGE"

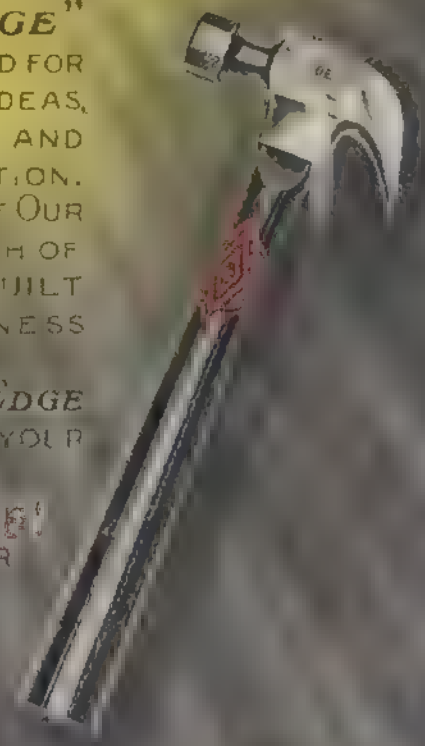
THE "DIAMOND EDGE" TRADE MARK

SHAPLEIGH HARDWARE CO.

D.E

DIAMOND EDGE

FOR OVER 50 YEARS THE
"DIAMOND EDGE"
TRADE-MARK HAS STOOD FOR
QUALITY, ORIGINAL IDEAS,
EXCLUSIVE DESIGNS AND
EXTREME PERFECTION.
THE STRENGTH OF OUR
LINES AND GROWTH OF
OUR BUSINESS IS BUILT
ON QUALITY, FAIRNESS
AND SERVICE
SELL DIAMOND EDGE
GOODS AND INCREASE YOUR
BUSINESS
INCOMPARABLE!
ASK THE USER



HARMOGRAPH

TALKING MACHINES

PLAY ALL
DISC RECORDS

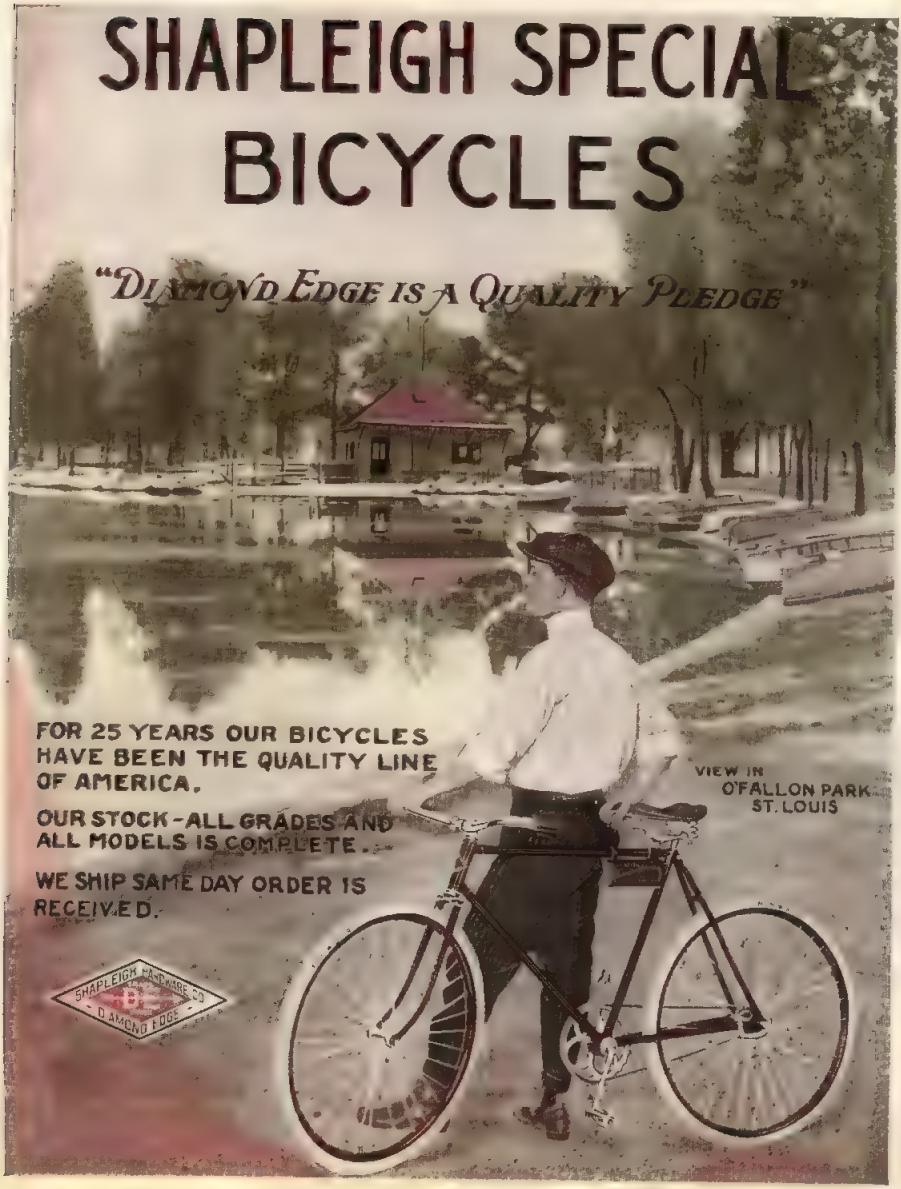
SHAPLEIGH · HARDWARE CO.
D E
DIAMOND · EDGE

"DIAMOND EDGE IS A QUALITY PLEDGE"

SHAPLEIGH HARDWARE CO.
DE
DIAMOND EDGE
OUR OWN STYLE FOUNT
"DIAMOND EDGE IS A QUALITY PLEDGE"

SHAPLEIGH SPECIAL BICYCLES

"DIAMOND EDGE IS A QUALITY PLEDGE"



FOR 25 YEARS OUR BICYCLES HAVE BEEN THE QUALITY LINE OF AMERICA.

OUR STOCK - ALL GRADES AND ALL MODELS IS COMPLETE.

WE SHIP SAME DAY ORDER IS RECEIVED.

VIEW IN O'FALLON PARK ST. LOUIS

SHAPLEIGH HARDWARE CO. DIAMOND EDGE

MANSFIELD TIRES

4,000 MILE GUARANTEE

EXCLUSIVE AGENCY GIVEN TO HIGH GRADE MERCHANTS

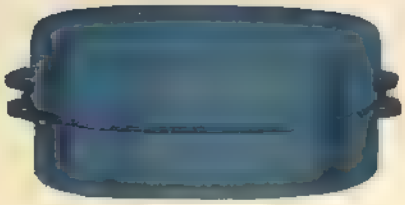
THE HAND BUILT TIRE FOR MILEAGE

MORE MILES PER DOLLAR

OUR LINES OF ENAMELED WARE

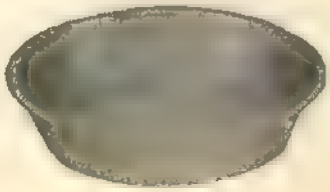
These staple colors and decorations are of the same excellent quality and improved design as our blended wares.

The completeness of our lines and the enormous stock we carry enables our customers to supply their entire requirements from one source, viz., our St. Louis stock.



Blue Diamond

White Diamond



Sage

White Diamond

Blue Diamond

Sage

Blue Diamond

White Diamond

Sage

"Originated By Us"

SEE FOLLOWING PAGES FOR DESCRIPTION AND PRICES

OUR LINES OF ENAMELED WARE

To the Merchant who would court the patronage of America's greatest and most exacting purchaser, the Housewife, these wares offer a simple and certain means of success.

To a quality which commands universal approval, we have added the spice of originality of design and decoration, a sprightliness of color combination, that attracts and satisfies the feminine eye and insures the largest sale and always a profit that makes the handling a real pleasure.

We give and protect exclusive agencies to Retailers who appreciate and will concentrate their purchases.

Thistle

Bluebelle

Shamrock

Shamrock

Bluebelle

High-Grade Blended Wares

Thistle

Bluebelle

Shamrock

Thistle

"ORIGINATED BY US"

SEE FOLLOWING PAGES FOR DESCRIPTION AND PRICES

American-LaFrance Motor Fire Apparatus at Camp Dix, Wrightstown, N. J.

THE NATION'S EFFICIENCY IN THE PRESENT CRISIS

The nation's efficiency in the present crisis depends upon the ability of its industries to produce war materials and supplies, and to continue to do so without interruption.

The burden of protecting the industries of the country against delays and stoppage of production by fires rests upon the Fire Departments. Fire Departments efficiency depends largely upon the reliability and quality of its Fire Fighting Apparatus. *The Best is None too Good.*

Up to this date this company has furnished the United States Government with the following motor fire apparatus:

18 Pumping Cars
38 Chemical Engines
6 Combination Cars
1 Service Truck

—as well as some 200 hand-drawn chemical engines and several thousand hand extinguishers.

AMERICAN-LAFRANCE FIRE ENGINE COMPANY, INC.

Members of the National Automobile Chamber of Commerce. Licensed under the Dyer Patents

Elmira, New York, U. S. A.

Branch Sales Offices and Service Stations

New York, Boston, Chicago, San Francisco, Portland, Ore., Dallas, Los Angeles, Atlanta, Denver, Pittsburgh, Baltimore, Minneapolis

CANADIAN FACTORY, TORONTO, ONT.

CAMP COOKERS

STERNO

Convenient Size for General Household Purposes—Making Tea or Coffee, Heating Water, Milk, etc. Can be Used with a Small Frying Pan or Spider for Cooking Meals while Camping; very Handy in the Sick Room or Nursery, and Can be Used for Many Innumerable Occasions.

Sterno (Canned Heat) is Put Up in Seamless Cans. It is Non-Explosive, Does Not Leak **Cannot Spill when Carried.** Keeps in All Climates. The Cover is Easily Lifted with Patented Opener at Bottom of Collapsible Stand.

Per Dozen

No. 4006—5 oz. Cans; Size of Cans 2¼x2 inches; Weight per Dozen 3¾ lbs..... $1 80

One Dozen in a Counter Display Box

STERNO

A Quart Size Boiler, Heavily Nickeled; a Cover with an Ebonized, Non-Heating, Wooden Knob; a Neat, Collapsible Stand that Easily Nests within the Boiler when Packed for Traveling; an Extra Can of **Sterno Canned Heat.** Three grooves of Can Fit Firmly into Stand. One Can Burns Steadily for One Hour.

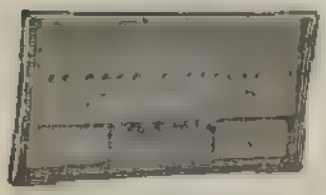
Per Dozen

No. 4001—Complete with Boiler, Stand and One Can of Sterno Canned Heat; Boiler 5x2½ inches, Height Over All 8 inches; Weight per Dozen About 6¾ lbs..... $8 00

One in a Carton

STERNO KITCHENETTES

IN ASSORTMENTS



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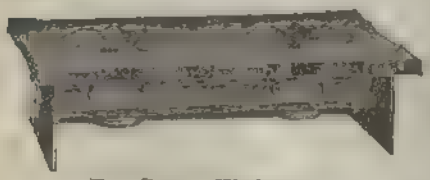


Two-Burner Kitchenette

One Burner Kitchenette

CONTENTS

	Retail Each
4 Only Two Burner Kitchenettes, Complete with Canned Heat	$2 00
2 Only One Burner Kitchenettes, Complete with Canned Heat	1 [illegible]
3 Dozen Canned Heat	10
Total Retail Value	$1 60

These Stoves Are Made of Heavy Wrought Steel, Capable of Sustaining the Weight of Large Kettles, Ham Boilers and Even a Wash Boiler.

They Are Handsomely Finished in Dull Hard Rubber with Planished Tops. Fold Up Easily and Compactly, Occupying but Little Space.

Provided with Windshield on Three Sides for Convenient Outdoor Use.

Two Burner Size 16x8 inch Top, Height 4¼ inches; Folded 16x8x1½ inches.

One Burner Size 8x8 inch Top, Height 4¼ inches; Folded 8x8x1½ inches.

Per Assortment

No. 1600—Assortment..... $19 78

Weight per Assortment 26 lbs.

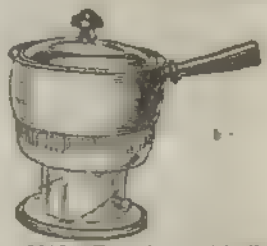
CAMP COOKERS

STERNO

The Sterno Boiler is a Very Handsome Utensil for the Home or Camp, Burns Sterno Canned Heat, Boiler Made of Brass, Highly Polished and Nickel Plated, Non-Heating Covered Wooden Handles, Small Can to be Unscrewed from Boiler and Rests Inside, Stand Made of Heavy Steel Metal Parts and Nickel Plated. Each Is Furnished with Handsome Nickel Plated Tray; One Can of Sterno Heat with Each Boiler. Per Dozen

No. 4000—Complete with Boiler, Stand, Tray, and One Can of Sterno Canned Heat, [illegible] inches; Tray 8¾ inches in Diameter, Weight Per Dozen [illegible] lbs..... $16.00

Twelfth Dozen in a Carton



STERNO

A Solid Brass, Heavily Nickel Plated and Polished Boiler and Cover, with Ebonized Wooden Handles. Stand Has a Wooden Base and is Equipped with a Scientific Flame Control and Wind Shield. When the Fire Pot is Raised the Heat is Diminished.

Per Dozen

No. 4002—Complete with Boiler, Stand and One Can of Sterno Canned Heat. Boiler 5x2½ inches; Height Over All 8 inches; Weight per Dozen About 9 lbs..... $24 00

Twelfth Dozen in a Carton

A Complete Cooking Outfit. Very Useful in Household and Outdoors while Camping, Automobiling, Boating and for Excursions and Picnics.

Always Ready for Instant Use. Easily Set Up and Taken Down. Makes a Small Compact Package when Folded.

Per Dozen

No. 4014—This Outfit Consists of a Seamless Brass Water Boiler, Nickel Plated and Polished; **Capacity One Quart;** Diameter 6¾ inches; Depth 2¾ inches; an Aluminum Coffee Maker, a Wind Shield; a Cover which May be Used as a Frying Pan and a Large Can of Sterno Canned Heat, Enough to Boil Fourteen Quarts of Water; Boiler and Cover When Set Up 7 inches; Weight Each [illegible], Weight per Dozen 38 lbs..... $48 00

Twelfth Dozen in a Carton

EXTRA FUEL FOR ABOVE OUTFIT

Per Dozen

No. 4016—22 oz. Air Tight Can; Size of Can 6x2 [illegible] in..... $12 00

One in a Carton

Per Dozen

No. 4026—Consists of a Seamless Brass Water Boiler, Nickel Plated and Polished; **Capacity One Pint;** Diameter 5 in., [illegible] 2¾ in.; a Wind Shield; a Cover which May be Used as a Frying Pan; and a Large Can of Sterno Canned Heat. Height Over All when Set Up 7 in.; Weight Each 2 lbs.; Weight per Dozen 24 lbs..... $24 00

Twelfth Dozen in a Carton

EXTRA FUEL FOR ABOVE OUTFIT

Per Dozen

No. 4028—15-oz. Air-Tight Can; Size of Can 4½x2 in..... $8 00

One in a Carton

STOPPLES—FOLDING

The Ideal Kook Kit for Campers, Fishermen, Hunters and Automobilists; Small and Compact, Well Made and Durable, Has All the Requirements Desired, Fits the Pocket and Can be Readily and Easily Put Up in a few Seconds.

Each Outfit Consists of One Galvanized Steel Wire Broiler 8½ inches Long and 7 inches Wide, with Four Wire Legs 7½ inches Long, which When Folded Fit Into the Corners of Broiler and Rest Inside, Small Wire Handle Clamps Broiler Legs; Water Boiler Stands Deep, and two Drinking Cups 4 inches Deep, 3½ inches Wide; All Equipped with Removable Steel Wire Handles.

Per Dozen

No SK—Stamped Steel Cups, Frying Pan and Water Boiler, Nickel Plated and Polished, Steel Wire Broiler, Folding Steel Wire Handle, Broiler 8 inches Long, 4 inches Wide and 2 inches Thick, Weight per Dozen, 32 lbs..... $38 00

Twelfth Dozen in a Box

ALCOHOL STOVES

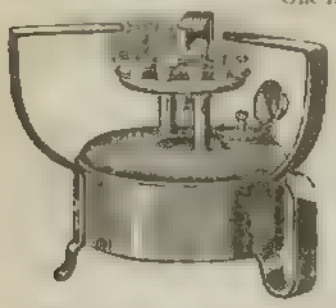
BLUE FLAME

Body Made of Nickel Plated Brass, Equipped with Pump and Wick Regulator; Stand and Wind Shield, Height 5½ inches; Diameter 6⅜ inches; Capacity 1 Pint,

Each

No. 0—Weight 2¾ Pounds..... $7 50

One in a Carton



Tank and Burner Made of Brass, Legs and Rack of Steel, Tin Plated.

Nos.	1	2
Height, Inches	4	4½
Diam. Tank, in.	3½	5
Capacity pts.	½	1
Weight per doz.	7	12
Per doz.	$18 00	31.00

One in a Carton

LAMP STOVES

DEFIANCE

Two Brass Burners; Cast Base; Tin Chimneys with Mica Window; 4 inch Wicks Height 9½ inches; Size of Top 4½x6½ inches

Per Dozen

No. 00—Weight per Dozen 135 pounds $36 00

Half Dozen in a Case.

Per Dozen

No. 01—One Brass Burner; Cast Base; 4 inch Wicks, Mica Window; Height 8½ inches; Size Top 3x4½ inches; Weight per Dozen 55 lbs..... $19 00

Half Dozen in a Case.

GAME JUNIOR; TWO BURNER

Per Dozen

No. GJ2—Cast Base; Nickel Plated Brass Burners; 4 inch Wicks; Mica Window; Height 8 inches; Size Top 4½x6¼ inches; Weight per Dozen 75 lbs..... $33 00

Half Dozen in a Case.

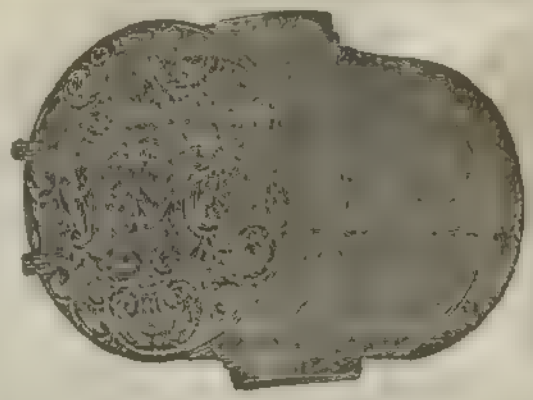
GAME JUNIOR; ONE BURNER

Per Dozen

No. GJ1—Cast Base; Nickel Plated Brass Burner; 4 inch Wick; Mica Window; Height 7½ inches; Size Top 4½x2½ inches; Weight per Dozen 50 lbs.. $16 50

One Dozen in a Case.

STOVE PIPE DRUM OVENS



Can be Used on Any Kind of Stove or Heater and is very Convenient for Baking or Warming, Heating Water, etc.; Also Acts as a Radiator.

With 6 inch Pipe Collars

With Cast Iron Head, Door and Pipe Collars; Sheet Steel Body,

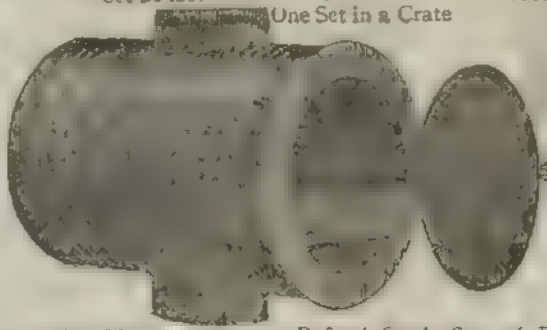
Each

No. 99—Ornamental Heads; Size of Body 18x14½ in.; Size of Oven 18x11 inches; Wt. Each 30 lbs..... $8 00

One in a Crate Per Set

No. 099—Castings and Rods O. I., without Body; Weight per Set 20 lbs. $3 00

One Set in a Crate



SHEET STEEL

Especially Adapted for Use on Air Tight Heaters; Stamped Steel Door with Turnbuckle.

Each

No. 100—Made of Smooth Blue Steel; Size of Body 20x13 inches; Oven will Take a 19x9 inch Pan; Weight Each 14 lbs. $5.50

One in a Crate

UPRIGHT STOVE DRUMS

ST. LOUIS

With 6 inch Pipe Collar

Especially Adapted for Upstairs Use; Can be Used with Either Wood or Coal Stove or Range; this Drum Has a Large Radiating Surface and Practically None of the Heat is Lost by Passing Out of the Pipe.

Each

No. USD—Made of Smooth Blue Steel; Height 28 Inches; Diameter 20 inches; Weight Each 20 lbs.... $7 00

One in a Crate

BOX STOVE DRUMS

ST. LOUIS

With 6 inch Pipe Collars; with Flue

Made of Refined Sheet Steel this Drum Retains Heat much Longer than the Old Style Solid Head and is More Satisfactory in Every Way.

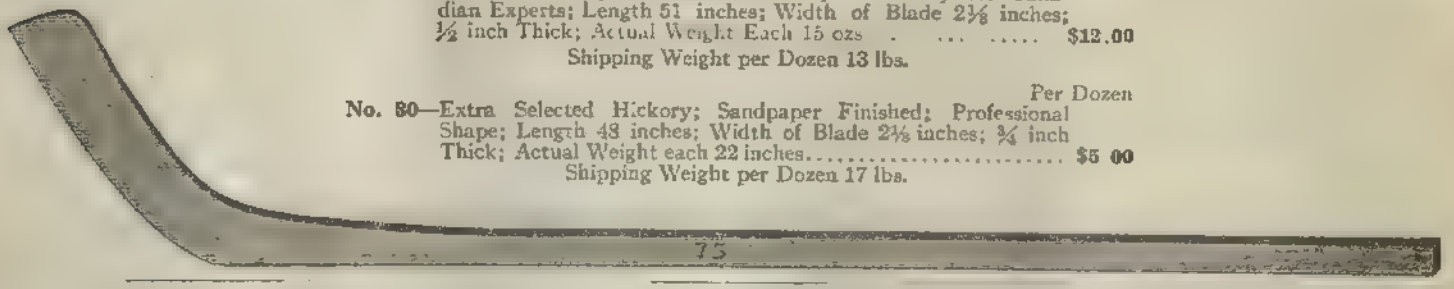
Nos.	B24	B28	B32	B36
Height, Inches	24	28	32	36
For Stoves Size	22 and 25	28 and 30	32 and 34	36 and 38
Weight, Lbs.	12	15	20	25
Each	$4 50	5 00	5.50	6.00

One in a Crate

HOCKEY STICKS

All of Our Hockey Sticks are Made of Selected Kiln Dried Timber; They are the Most Approved Patterns and Correct in Shape, Steam Bent, so that the Grain of Wood is Continuous from End of Handle to Tip of Blade.

MENS CANADIAN



Per Dozen

No. 75—Extra Selected Straight Grained White Ash, Sandpaper Finished; Professional Shape; Modeled After Styles Used by the Canadian Experts; Length 51 inches; Width of Blade 2⅛ inches; ½ inch Thick; Actual Weight Each 15 ozs **$12.00**

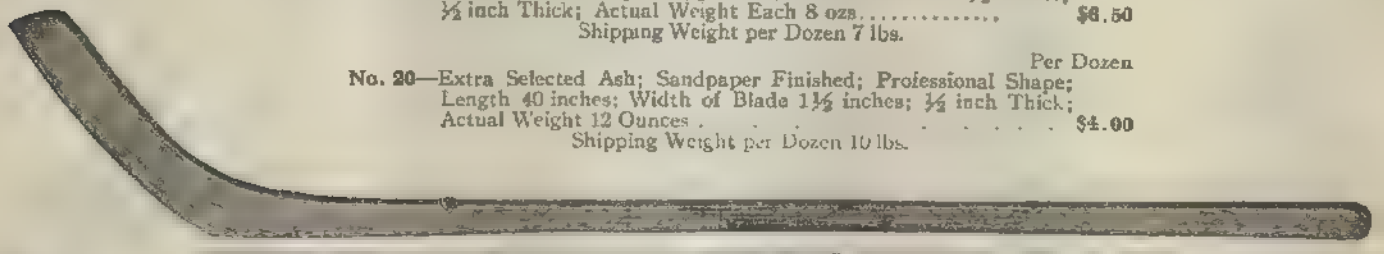
Shipping Weight per Dozen 13 lbs.

Per Dozen

No. 80—Extra Selected Hickory; Sandpaper Finished; Professional Shape; Length 48 inches; Width of Blade 2⅛ inches; ¾ inch Thick; Actual Weight each 22 inches. **$5 00**

Shipping Weight per Dozen 17 lbs.

BOYS CANADIAN



Per Dozen

No. 40—Extra Selected Straight Grained White Ash; Sandpaper Finished; Professional Shape; Modeled After Styles Used by the Canadian Experts; Length 43¾ inches; Width of Blade 1½ inches; ½ inch Thick; Actual Weight Each 8 ozs. **$6.50**

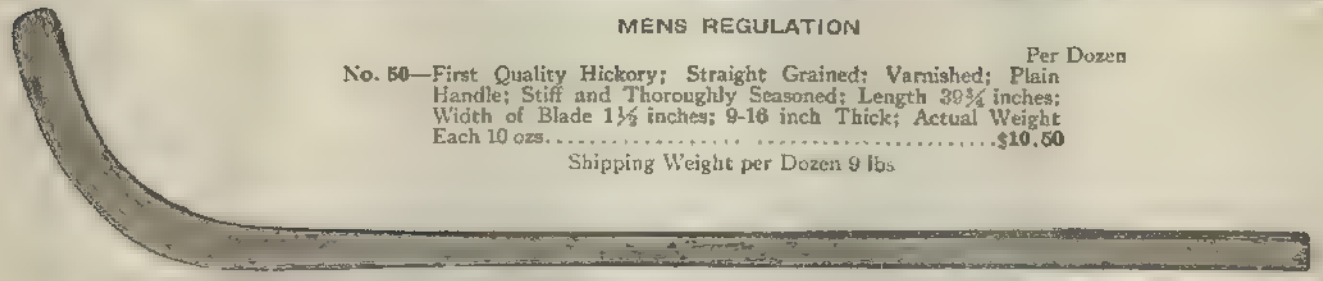
Shipping Weight per Dozen 7 lbs.

Per Dozen

No. 20—Extra Selected Ash; Sandpaper Finished; Professional Shape; Length 40 inches; Width of Blade 1½ inches; ½ inch Thick; Actual Weight 12 Ounces **$4.00**

Shipping Weight per Dozen 10 lbs.

MENS REGULATION

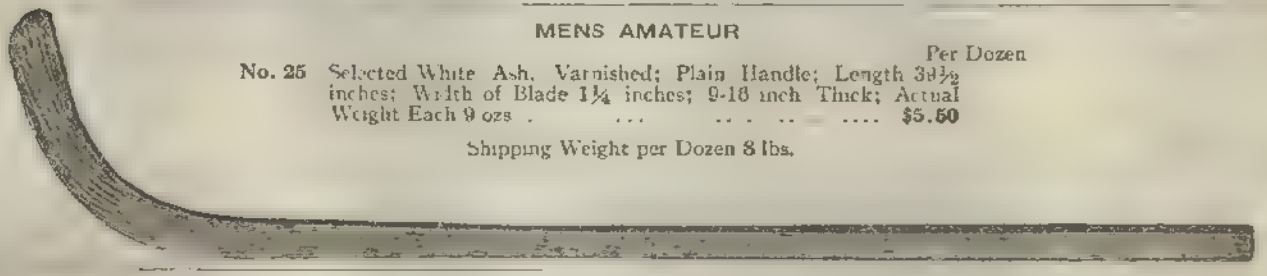


Per Dozen

No. 50—First Quality Hickory; Straight Grained; Varnished; Plain Handle; Stiff and Thoroughly Seasoned; Length 39¾ inches; Width of Blade 1½ inches; 9-16 inch Thick; Actual Weight Each 10 ozs. **$10.50**

Shipping Weight per Dozen 9 lbs

MENS AMATEUR

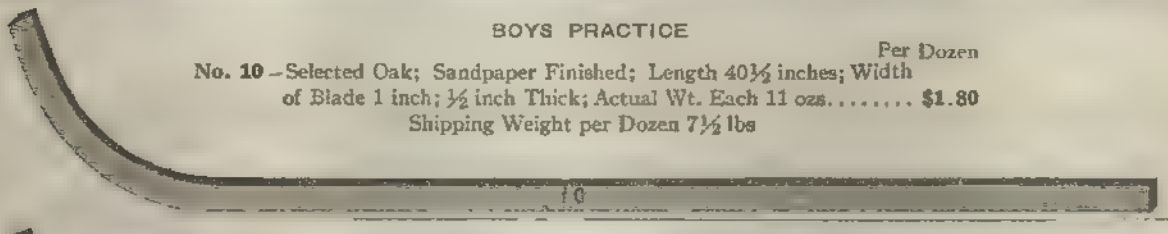


Per Dozen

No. 25 Selected White Ash, Varnished; Plain Handle; Length 38½ inches; Width of Blade 1¼ inches; 9-16 inch Thick; Actual Weight Each 9 ozs **$5.50**

Shipping Weight per Dozen 8 lbs.

BOYS PRACTICE

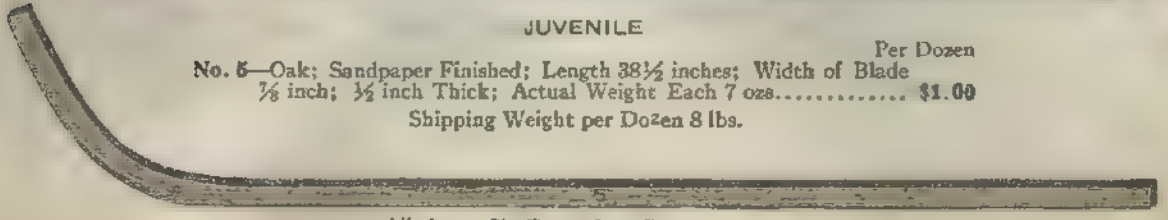


Per Dozen

No. 10—Selected Oak; Sandpaper Finished; Length 40½ inches; Width of Blade 1 inch; ½ inch Thick; Actual Wt. Each 11 ozs. **$1.80**

Shipping Weight per Dozen 7½ lbs

JUVENILE



Per Dozen

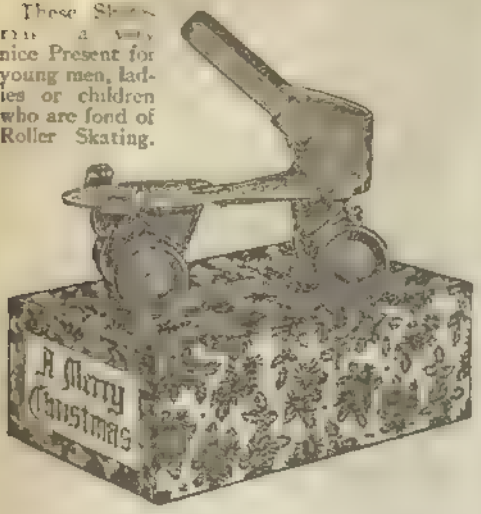
No. 5—Oak; Sandpaper Finished; Length 38½ inches; Width of Blade ⅞ inch; ½ inch Thick; Actual Weight Each 7 ozs. **$1.00**

Shipping Weight per Dozen 8 lbs.

All above, Six Dozen in a Crate

ROLLER SKATES

These Skates make a very nice Present for young men, ladies or children who are fond of Roller Skating.



UNION HARDWARE CO.

Special Christmas Offering

Made of the Best Swedish Cold Rolled Steel Oscillating Trucks with Best Rubber Cushions; **Extension Foot Plate; Nickel Plated;** Patent Clamps ⅛ inch Russet Leather Creased Edge Straps with Black Japanned Buckles; **1⅞ inch Stamped All Steel Ball Bearing Wheels.**

Per Pair

No. XS4—Childs; Full Leather Heel..... **$4 50**

No. XS5—Mens; with Leather Heel Strap..... **4 50**

No. XS6—Ladies; Full Leather Heel..... **5 00**

One Pair in a Fancy Holly Decorated Box.
Average Weight per Pair 5 lbs.

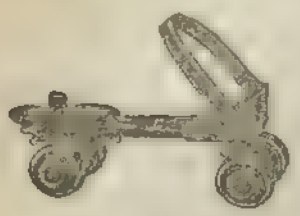
UNION HARDWARE CO.

Ball Bearing, Extension; Steel Rolls; Clamp Toe. Not recommended for Rinks. Best Cold Rolled Swedish Steel, **Nickel Plated;** Oscillating Trucks with best Rubber Cushions and turn in a 3 ft. circle. Grain Leather Straps. Easy and secure adjustment; A formed steel loop protects the Straps and prevents their cutting or pulling out.

Per Pair

No. S4—For Children; Half Strap Heel; Small Foot Plates; Extends from 6½ to 8½ inches; Weight p[illegible] 4½ lbs..... **$3 70**

One Pair in a Package.



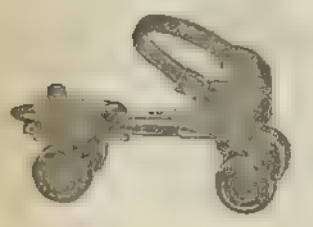
UNION HARDWARE CO.

Ball Bearing, Extension; Steel Rolls; Clamp Toe. Not recommended for Rinks. Best Cold Rolled Swedish Steel, **Nickel Plated;** Oscillating Trucks with best Rubber Cushions and turn in a 3 ft. circle. Grain Leather Straps. Easy and secure adjustment; A formed steel loop protects the Straps and prevents their cutting or pulling out.

Per Pair

No. S5—For Men; Half Strap Heel; Large Foot Plates; extends from 8½ to 10¾ inches; Weight pair 4½ lbs..... **$3 70**

One Pair in a Package.



UNION HARDWARE CO.

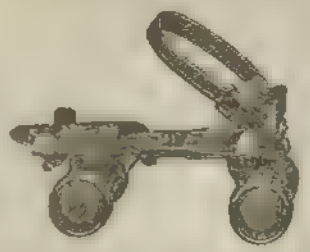
Ball Bearing, Extention; Steel Rools; Clamp Toe. Not Recommended for Rinks. Best Cold Rolled Sweedish Steel, **Nickel Plated;** Oscillating. Trucks with best Rubber cushions and turn in a 3 inch Circle. Grain Leather Straps. Easy and Secure Adjustment A formed steel loop protects the Straps and prevents their cutting or pulling out.

Per Pair

No. S6—For Women; Full Strap Leather Heel; Medium Foot Plates; extends from 7½ to 10 inches; Weight pair 4½ lbs..... **$4.00**

One Pair in a Package.

ROLLER SKATES



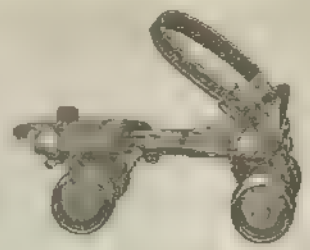
UNION HARDWARE CO.

Ball Bearing, Half Clamp, Steel Rolls, Extension, Rink; Best Cold Rolled Swedish Steel **Nickel Plated;** The heavy U Shaped bar of Swedish steel insures additional strength; Grain Leather Straps. A formed steel loop protects the Straps and prevents their cutting or pulling out.

Per Pair

No. 130—For Men; Half Strap Heel, extends from 8 to 10¾ inches; Weight per pair 4½ lbs..... **$4.50**

One Pair in a Package.



UNION HARDWARE CO.

Ball Bearing, Half Clamp, Steel Rolls, Extension, Rink; Best Cold Rolled Swedish Steel, **Nickel Plated;** The Heavy U shaped bar of Swedish steel insures additional strength; Grain Leather Straps. A formed steel loop protects the Straps and prevents their cutting or pulling out.

Per Pair

No. 130L—For Women; Full Strap Leather Heel; Extends from 7½ to 10 inches; Weight Pair 4½ lbs..... **$5 00**

One Pair in a Package.

UNION HARDWARE CO.

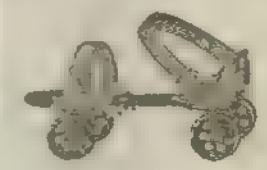
Plain Bearing, Extension

Best Cold Rolled Swedish Steel, **Bright Finish;** Oscillating Trucks with Rubber Cushions and turn in a 3 ft. circle; Easy and secure adjustment. A formed steel loop protects the Straps and prevents their cutting or pulling out.

Per Pair

No. S10—For Children; Half Strap Heel; Clamp Toe; Plain Steel Rolls; Extends from 7½ to 10 inches; Weight Pair 4¼ lbs..... **$2 50**

One Pair in a Package.



UNION HARDWARE CO.

Extension, Sidewalk Skate; Homogeneous Steel Tops, Bright Finish; High Steel Backs; Easy and Secure adjustment; Extend from 7¼ to 9½ inches; Web Straps.

Per Pair

No. S0—Cast Iron Rolls; Weight Pair 2½ lbs..... **$1.00**

One Pair in a Package.

UNION HARDWARE CO.

Extension, Sidewalk Skate; Homogeneous Steel Tops, Bright Finish, High Steel Backs; Easy and Secure adjustmentr Extend from 7¼ to 9½ inches; Web Straps.

Per Pair

No. S2—Steel Rolls; Weight Pair 2½ lbs..... **$1 00**

One Pair in a Package.

UNION HARDWARE CO.

Extension, Sidewalk Skate; Homogeneous Steel Tops, Bright Finish; High Steel Backs; Easy and secure adjustment; extend from 7¼ to 9½ inches; Web Straps.

Per Pair

No. S3—Half Clamp; Steel Rolls; Weight Pair 2½ lbs..... **$1.20**

One Pair in a Package

Carbic Flare Light

Fig. 324

No. 3	No. 2	No. 1	Cadet	Hand Light	Drum Carbic Cakes
No. 3	No. 2	No. 1	Cadet		100-lb drum
8 cakes	4 cakes	2 cakes	4 cakes (No. 5)		No. 20
Burns 12 hrs	Burns 12 hrs	Burns 6 hrs	Burns 5 hrs		Carbic
Price $60.00	Price $44.00	Price $38.50	Price $33.00		Cakes

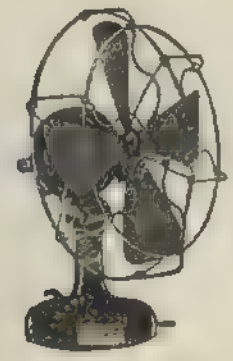
For contractors' mines, street work, bridges, fire departments, camps, railways, dredges, oil rigs, steam shovels, wrecking cranes, quarries, etc.

Write for Special Catalogue

ELECTRIC FANS

"CARLETON"

The breeziest small fan on the market for the money. Electrically and mechanically perfect. Construction is the best possible Bronze bearings finished in black enamel Blades, guards and all bright parts heavily nickeled on brass. Unique joint permits every conceivable adjustment, including swiveling when used in wall bracket position Has Universal Motor using either direct or alternating current



Desk and Bracket

Three Speed

No. 8DB—8 in., 100 to 120 volt...Each $15 00

No. 6DB—6 in., 100 to 120 volt...Each 12 50

Packed One in a Case

Oscillating

Noiseless gear drive and oscillates on ball bearing.

No. 80—8 in., 100 to 120 volt.....Each $21 50

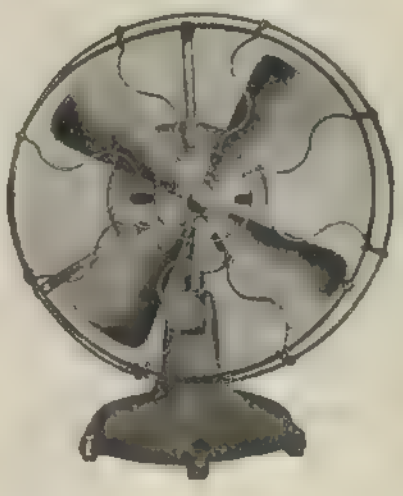
Packed One in a Case

ELECTRIC FANS

"DURABLE DAYTON"

Will throw more air and has a greater efficiency than any other fan of equal size. Has bronze bearings and switch, giving three speeds of wide range. The motor frame and base are black enamel. Blades and guard polished brass. The "Desk and Bracket" type have simple adjustment, so they can be turned to bracket position without the use of additional parts They also swivel to any angle sidewise The "Oscillating" type is same as the "Desk and Bracket" with the addition of the oscillating mechanism, which is simplicity in itself being only two worms and worm wheels, a crank plate and crank rod with necessary shafts, bearings, etc "Durable Dayton" fans will operate on voltages within 10% of rated voltage

REGULAR DESK AND BRACKET

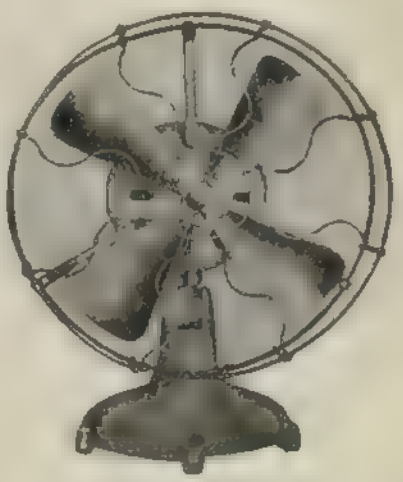


Direct Current

	110 Volt	220 Volt
No. 21— 8 in. four blade..Each	$22 00	25 00
No. 25—12 in. four blade..Each	32 40	35 40
No. 225—16 in. four blade..Each	37 20	40 20

Speeds, 8 in 1000-1400-1800 R P M

Speeds, 12 and 16 in 1000-1300-1600 R P M



Alternating Current 60 Cycle

	110 Volt	220 Volt
No. 27— 8 in. four blade..Each	$24 00	27 00
No. 50—12 in. four blade..Each	36 24	39 24
No. 250—16 in. four blade..Each	41 40	44 40

Speeds, 1000-1300-1600 R. P. M.

OSCILLATING DESK AND BRACKET

Turned to bracket position

Direct Current

	110 Volt	220 Volt
No. 30—12 in. four blade..Each	$44 00	47 00
No. 230—16 in. four blade..Each	49 50	52 50

Speeds, 1000-1300-1600 R. P. M

Same type as above, only Alternating Current

Alternating Current 60 Cycle

	110 Volt	220 Volt
No. 65—12 in. four blade..Each	$48 50	51 50
No. 265—16 in. four blade..Each	53 80	56 40

Speeds, 1000-1300-1600 R. P. M.

Alternating Current 60 Cycle

	110 Volt	220 Volt
No. 656—12 in. six blade..Each	$50 10	53 10
No. 2656—16 in. six blade..Each	55 40	58 40

Speeds, 700-900-1100 R. P. M

CORDS AND PLUGS

No. 85 6 feet long.....Each $1 50

Durable Dayton fans are priced without cords and plugs

All Packed One in Case

Prices on other voltages and cycles upon application.

"HYGRADE TUNGSTEN LAMPS"

The standard of quality as maintained in "Hygrade" lamps is not surpassed by any other make and the standard of quality is a definite policy with the manufacturers.

Straight Side Sign

Round

Straight Side

Tubular

Gas Filled or Nitrogen

Schedule B — **Straight Side**

Volts	Watts	Watts per Mean Spherical Candle Power	Watts per Mean Horizontal Candle Power	Nos.	Maximum over all Length Inch	Base Regularly Supplied	Standard Pack Quantity	Each: Clear	Each: Frost
110 to 125	10	1.67	1.30	S-17	4⅝	Medium Screw	100	$0.27	$0.30
	15	1.47	1.15						
	25	1.39	1.08	S-19	5¼	Medium Screw	100	.27	.30
	40	1.35	1.05						
	50	1.33	1.04	S-19	5¼	Medium Screw	100	.27	.30
	60	1.31	1.02	S-21	5½	Medium Screw	100	.36	.40
	100	1.26	.98	S-30	7⅛	Medium Screw SK	24	.65	.72
220 to 250	25	1.65	1.30	S-19	5¼	Medium Screw	100	$0.33	$0.36
	40	1.52	1.20						
	60	1.46	1.15	S-21	5½	Medium Screw	100	.45	.49
	100	1.39	1.10	S-30	7⅛	Medium Screw SK	24	.80	.87
	150	1.33	1.05	S-35	8⅝	Medium Screw SK	24	1.20	1.30

Schedule B — **Straight Side Sign**

Volts	Watts	Watts per Mean Spherical Candle Power	Watts per Mean Horizontal Candle Power	Nos.	Maximum over all Length Inch	Base Regularly Supplied	Standard Pack Quantity	Each: Clear	Each: Frost
11 to 12½	2½	1.52	1.20	S-14	4	Medium Screw	100	$0.25	$0.28
	5	1.46	1.15						
55 to 65	5	1.73	1.35	S-14	4	Medium Screw	100	.27	.30
110 to 125	10	1.73	1.35	S-14	4	Medium Screw	100	.27	.30

Schedule C — **Nitrogen or Gas Filled**

These lamps must operate in a vertical position. Fixtures used must be of the ventilated type and if outdoors, they must be rain-proof.

We do not recommend the use of all frosted gas filled lamps.

110 to 125	75	1.09	PS-22	6¼	Med Scr	50	$0.65	$0.70
	100	1.00	PS-25	7⅛	Med. Scr.	24	1.00	1.05
	150	0.92	PS-25	7⅛	Med. Scr.	24	1.50	1.55
	200	0.86	PS-30	8¾	Med Scr	24	2.00	2.07
	300	0.78	PS-35	9¾	Mog Scr	24	3.00	3.10
	400	0.82	PS-40	10	Mog Scr.	12	4.00	4.15
	500	0.78	PS-40	10	Mog Scr	12	4.50	4.65
	750	0.74	PS-52	13⅜	Mog Scr	8	6.00	6.25
	1000	0.70	PS-52	13⅜	Mog. Scr.	8	7.00	7.25

Schedule D — **Round**

Volts	Watts	Watts per Mean Spherical Candle Power	Watts per Mean Horizontal Candle Power	Nos.	Maximum over all Length Inch	Base Regularly Supplied	Standard Pack Quantity	Each: Clear	Each: Frost
110 to 125	15	1.43	1.14	G-25	4¾	Med Scr	50	$0.45	$0.50
	25	1.35	1.08	G-25					
	40	1.33	1.06	G-25					
	60	1.23	.98	G-30	5½	Med Scr	24	.65	.72
	100	1.18	.94	G-35	7¼	Med. Scr Skirted	24	.96	1.05

Tubular

Volts	Watts	Watts per Mean Spherical Candle Power	Watts per Mean Horizontal Candle Power	Nos.	Maximum over all Length Inch	Base Regularly Supplied	Standard Pack Quantity	Each: Clear	Each: Frost
110 to 125	25	1.38	1.08	T-10	5⅞	Med Scr	100	$0.50	$0.55

Schedule E — **Straight Side**

Train Lighting and Compensator

Volts	Watts	Watts per Mean Spherical Candle Power	Watts per Mean Horizontal Candle Power	Nos.	Maximum over all Length Inch	Base Regularly Supplied	Standard Pack Quantity	Each: Clear	Each: Frost
30 to 34	10	1.37							
	15	1.31		S-17	4⅝	Med Scr	100	$0.27	$0.30
	20	1.29							
	25	1.29		S-19	5¼	Med. Scr.	100	.27	.30
	50	1.24							
60 to 65	10	1.44							
	15	1.38		S-17	4⅝	Med Scr	100	.27	.30
	20	1.36							
	25	1.36		S-19	5¼	Med Scr	100	.27	.30
	50	1.24							

Schedule E — **Round**

Train Lighting and Compensator

Volts	Watts	Watts per Mean Spherical Candle Power	Watts per Mean Horizontal Candle Power	Nos.	Maximum over all Length Inch	Base Regularly Supplied	Standard Pack Quantity	Each: Clear	Each: Frost
30 to 34	10	1.44							
	15	1.38		G-18½	3⅝	Med. Scr.	100	$0.36	$0.39
	20	1.36							
	25	1.36		G-18½	3¾	Med Scr	100	.36	.39
	50	1.22		G-30	6¼	Med Scr Skirted	24	.65	.72
60 to 65	10	1.51							
	15	1.44		G-18½	3¾	Med Scr.	100	$0.36	$0.39
	20	1.42							
	25	1.42		G-18½	3⅛	Med Scr	100	.36	.39
	50	1.22		G-30	6¼	Med Scr. Skirted	24	.65	.72

Schedule F — **Street Railway**

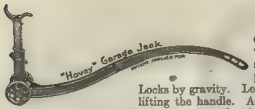
(5 in series—525, 550, 575, 600, 625, 650 volts)

	23	1.48	1.14	S-19	5¼	Med Scr	100	$0.27	$0.30
	36	1.42	1.11	S-19	5¼	Med Scr	100	.27	.30
	56	1.33	1.04	S-21	5½	Med. Scr.	100	.36	.40
	94	1.28	1.00	S-24½	7⅛	Me.Sc.SK	50	.65	.72

All the lamps listed above are selected for amperes and are labeled for use, five in series, on above Voltages.

All shipments of Hygrade lamps are guaranteed to pass the U. S Government specifications as given in latest bulletins of the Bureau of Standards.

HOVEY.

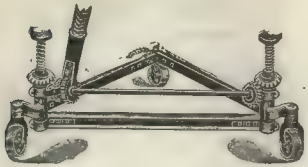


Operates by merely "kicking up" movable head and depressing handle. Locks by gravity. Lets down by merely lifting the handle. Adjustment is made by the foot and not the hands. Four foot handle gives ample leverage. No screwing or lever-pumping on hands and knees. Not conveniently carried away as a souvenir. No springs or delicate parts to break or wear. Made of malleable iron and open hearth steel.

Each

No. H—Garage Jack, weight each, 18 lbs. **$16.00**

PRATT THREE WHEEL.

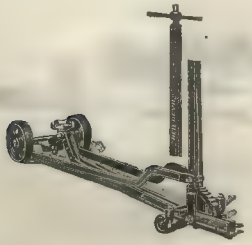


Constructed throughout of steel and malleable iron. Ball bearing, strongly built to stand hard service. Simple and easy to operate by ratchet lever device. Equipped with hinged joints so that when not in use or in shipping may be folded into small, compact package.

Each

No. 12—Garage Jack and Turn Table; shipping weight, about 50 lbs. **$23.50**

RED DEVIL.



Operates with any car at front, rear or side, regardless of bumpers, tires, tanks, tops or running boards, or any projections. Adjustable to any height of axle or differential housing by foot control from standing position.

Each

Red Devil Dolly Jack; weight each, 125 lbs. **$72.00**

WEAVER AUTO TWIN JACK.

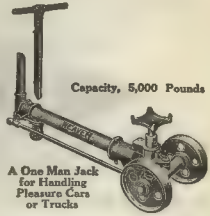
The Weaver Twin Jacks are scientifically constructed, substantial and safe. Ball bearings are used where friction is liable to occur. A malleable iron and steel construction insures the maximum of strength.

Each

No. W1—Garage Track and Turn Table; weight each, 45 lbs. **$30.00**

WEAVER NEW-WAY JACK.

The wheels pivot and are guided and controlled by the handle. It is possible to manipulate it in a very limited space and to place it quickly and accurately in any desired position under the car. Easy of operation and ideal for truck service. Operates on the ratchet principle and the long lever handle provides ample leverage. The wheels are large and equipped with roller bearings.

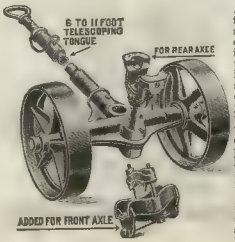


Each

Weaver New-Way Jack—Weight each, 100 lbs. **$70.00**

AUTO AMBULANCE.

WEAVER.



The Weaver Auto Ambulance is the only thoroughly practical and universal device ever perfected for pulling disabled cars to the repair shop. Readily attached to either axle; easily handled by one man; quickly adjusted. The height of the standard may be varied as conditions demand by a heavy pin or key and the length of the tongue may be varied at will from 6½ to 12 feet.

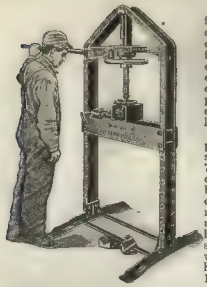
Cars cannot bounce off. The wheels are of cast steel and very strongly designed. They are 14 inches in diameter with 3-inch face. Can be used on country roads with entire satisfaction. Broad roller bearings permit heaviest loads to be towed with little energy. The construction throughout is extremely strong but designed so as to eliminate all unnecessary weight. The telescoping tongue is of double strength steel tubing; 1¼-inch steel axle extends entirely through the frame; malleable iron saddles; 20-inch tread.

Each

***Weaver Auto Ambulance**—Weight each complete, 135 lbs. **$72.00**

FORCING PRESSES.

WEAVER 20-TON.



Used in auto repair shops for straightening shafts or axles, pressing bearings or hubs in or out of wheels, forcing gears or bushings on or off and for many other operations which are usually crudely performed by improvised means at a great expenditure of time and labor.

Frame constructed of one piece heavy 5-inch channel steel, painted green; height, 74 inches; floor space required, 36x36 inches; width between frames, 32 inches; cast iron hand wheel 15 inches in diameter carried upon ball bearings; pressure leverage is 1500 to 1; the screw is 2 inches in diameter with 3 pitch Acme thread, has a range of movement of 12 inches; the thrust of the screw is direct against heavy bronze thrust bearings; the screw does not revolve; the bolster which carries the plate is adjustable up to 48 inches which permits work 44 inches long to be placed between the bolster and the screw. Each press furnished complete with a pair of vise blocks for holding round and irregular pieces and two channel blocks for supporting gears, etc.

Each

Weaver Forcing Press; capacity, 20 tons; weight each, 425 lbs. **$153.00**

PULLER CLAMP.

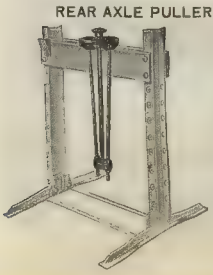
Designed especially for service with the Weaver 20-ton forcing press. An extremely simple device which can be used to particular advantage and with safety in pressing off ball races, delicate gears, etc., which are so situated that they cannot be handled by the usual method of supporting them from underneath.

Each

No. PC8—Weaver Puller Clamp; small size; 9-inch plate; weight each, 10 lbs. **$12.00**

No. PZ16—Weaver Puller Clamp; large size; 16-inch plate; weight each, 24 lbs **20.00**

REAR AXLE PULLER FOR FORDS.



Designed exclusively for service with the Weaver forcing press and is an item of equipment which is almost indispensable in the shop doing Ford repair work.

Each

Weaver Ford Rear Axle Puller; weight each, 35 lbs. **$20.00**

AUTO HOISTS.

WEAVER.

Heavy 5-inch channel steel with the arch reinforced on either side by heavy steel plates ⅜x4 inches. The lifting chains are extremely heavy and carefully tested 5-inch casters, full roller bearing, spindles revolve on two sets of ball bearings. Lifting leverage, 200 to 1. Minimum height, 7½ feet, maximum height when extended, 9 feet; width between frames, 6½ feet. Recommended capacity, 3,000 lbs. with double suspension and 2,000 lbs. with single suspension.

Each

Weaver Auto Hoist; weight each, 560 lbs. **$250.00**

TRUCK HOIST.

WEAVER.

Made of very heavy "I" beam stock. Lifting capacity, 6,000 pounds for double suspension and 4,000 pounds for single suspension. Worm gear lifting leverage, 400 to 1. An auxiliary lever operated directly onto the drum enables the chain to be adjusted to the load very rapidly. Width between frame, 8 feet 4 inches. Minimum height, 8 feet 4 inches; maximum height, 10 feet.

Each

Weaver Truck Hoist—Weight each, 900 lbs. **$500.00**

AXLE STAND.

WEAVER.

A stand which will handle any of the many different types of rear axles now in service and will facilitate convenient and rapid work. The cast brackets are made to withstand severe abuse. The design throughout carries extreme strength and simplicity.

Each

Weaver Universal Axle Stand; weight each, 135 lbs. **$72.00**

WIRE REPAIR STAND.

WEAVER.

For facilitating replacing broken spokes, tightening loose spokes and properly aligning and truing the wheel. Convenient revolving cabinet on the center standard of the stand will accommodate a great variety of spare spokes. Main standard is heavy steel tubing supported by a broad iron base, which gives ample foundation for handling the heaviest wheel. A tool tray carried directly under the wheel keeps the necessary wrenches, etc., within convenient reach.

Each

Weaver Wire Wheel Repair Stand; weight, 60 lbs. **$60.00**

5346 MOTOR STAND.

CONTINENTAL.

F. O. B. Columbus, Indiana.

Can be securely locked at any desired position or angle. It is a universal stand and will handle all types of motors. An engine on the stand is properly supported so that the mechanic can turn it to any position so that work is convenient and good light available. There are no parts to interfere with getting at the motor. Everything is in easy reach, and as you will note in the illustration, any part of the motor may be removed without shifting or changing. Both ends of the motor are instantly available. The stand being portable, is easily moved from place to place.

Each

***Continental Motor Stand**—Length over all when fully extended, 48 inches; width, 35 inches; extreme height, 37 inches; minimum height, 32 inches; weight packed for shipment, 290 lbs. **$108.00**

***Continental Motor Stand with Ford Attachment**—A complete Ford unit power plant can be fastened in motor stand with this attachment. **116.00**

ENGINE STAND FOR FORD.

CONTINENTAL.

You can place a complete Ford unit power plant and tear it down to the stripped cylinder block and rebuild it without having to change its position in the stand. After the complete motor is placed in the stand it can be turned to any position and firmly locked. The complete engine is held absolutely rigid and is firmly clamped to the stand by a bracket on each side of the motor.

Each

***Continental Ford Engine Stand**—Height, 34 inches; weight packed ready for shipment, 115 lbs. **$68.00**

AXLE STAND.

CONTINENTAL.

The axle is placed on the Continental Axle Stand and clamped firmly in position on the adjustable vise. The taper of the housing is taken care of by this adjustment. The axle is at a convenient height to work on and the mechanic has everything at his finger tips. The axle may be torn down, whether semi-floating, three-quarter floating or full floating construction without unclamping it from the stand. The grease pan takes care of the old grease and oil and the tool tray makes a convenient place for the operator to keep wrenches and other small tools. The chain vise will take care of all sizes and types of axles and being adjustable conforms to the shape of the housing. The support opposite the vise locks in position when in use and when separating a semi-floating axle it may be unlocked and dropped down so as to allow one housing to be readily removed.

Each

***Continental Axle Stand**—Heavily constructed; height, 34 inches; takes up floor space 12x22 inches; shipping weight each, 145 lbs. **$76.00**

Shipped knocked down, crated flat.

RADIATOR STAND

CONTINENTAL

To repair and solder radiators it is necessary to get them to practically every possible position. The Continental Radiator Stand was designed with this in view. With the radiator turning in two different directions it is possible to get any part to a level position. In getting the radiator to any desired position, the outer frame revolves with its axis of rotation in one direction while the inner frame revolves with its axis of rotation in the opposite direction, and either frame can be firmly locked in any position. Being portable, it is not necessary to take the radiator off the stand in testing for leaks.

The clamps are covered on the ends with rubber so as to not injure the most highly finished radiators and the supports are made of wood for the same reason. There are no obstructions whatsoever in the mechanic's way. It is constructed of structural steel, and although light, is amply strong to handle the heaviest truck radiator.

Each

***Continental Radiator Stand**—Height, 34 inches; occupies floor space 24x26 inches; portable and easily moved from place to place; shipping weight each, 150 lbs. ... **$55.00**

Shipped knocked down, crated flat.

***For factory shipment only.**

FOUNTAINS
DISPLAY and DRINKING
LAMP STANDARDS
OVER ONE THOUSAND PATTERNS
THE CASEY HEDGES CO.
CHATTANOOGA, TENN.
Chicago Cincinnati

INEXPENSIVE DRINKING FOUNTAINS

Our bubbling fountains, the practical kind, are just the kind to be installed on your streets and boulevards, in your parks and squares and public playgrounds. The expense for installation is very small as is the upkeep cost.

We are specialists on fountains for drinking purposes. Place your requirements in our hands. Write for our catalogue showing our many designs.

RUNDLE-SPENCE MFG. CO.
Milwaukee, Wis.

ENTERPRISE IRON FENCES
Combine durability and handsome appearance. They do not obstruct your fine views. Let us blue-print your fence needs free.
Send for book containing reproductions of the world's finest fences — its free
THE ENTERPRISE IRON WORKS
1123 East 24th Street, Indianapolis, Ind.

The WHITE TRUCK BOOK

250 Pages *1400 Illustrations*
A Graphic Record of Truck Uses in all Lines of Industry and Commerce
Sent gratis to any truck user if request is signed by responsible official
THE WHITE COMPANY
CLEVELAND

RUSSELL SNOW PLOW

Adjustable and All-Steel
Delivered at any railroad station, freight paid
at $39.75

Adjustable widths 4 ft., 4½ ft., 5 ft., 5½ ft and 6 ft adjustments made by two bolts (or pins) hinged at front and on both sides; rigid and strong; hard wood handles.
This is the latest of our Line of Road Working and Earth Handling Machinery. Send for Catalog.

Russell Grader Mfg. Co. - **MINNEAPOLIS - MINN SOTA**
Representatives in Principal Cities

Cemcoat

The Enamel-like Wall Coating

Cemcoat is furnished in either Gloss or Flat.
Cemcoat has the combined virtues of enamel and paint.
It presents a tile-like finish.
It is washable, sanitary and durable.
Cemcoat should be used for all municipal buildings such as Schools, Bath Houses, Police Stations, Jails, etc.
Particularly adapted for safety lines on pavements.

Write for literature, color card, testimonials, etc.

Department 27

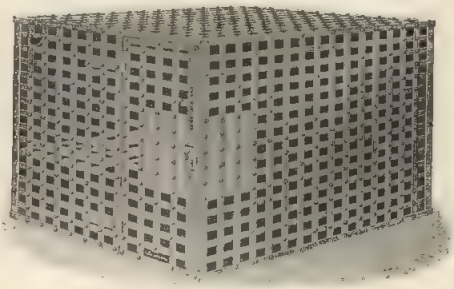
L. SONNEBORN SONS, Inc.
264 Pearl Street, New York

ESTABLISHED 1866

BARNUM JAIL CELLS

JAIL WORK of EVERY DESCRIPTION

Jail Entrance Doors
Steel Lining for Jail Walls
Jail Bedsteads
Steel Window Guards
Iron Stairs



Folding Steel Bunks
Tool-Proof Steel Work
Sanitary Equipment
Locking Devices
Padded Cells

SEND FOR CATALOGUE

E. T. BARNUM IRON WORKS
DETROIT, MICHIGAN

BANKS

JUNIOR

Cash Register Style

Made of Cast Iron; Nickel Plated; Embossed Cash Register Design; Furnished with Spring Lock and Key; Height 4¼ inches; Width 3⅝ inches; Depth 3 inches.

Per Dozen

No. 2013—Weight per Dozen, 21 lbs. **$7.50**
One in a Box

CHILDREN'S SAFE DEPOSIT

Nickel Plated Cast Iron; Furnished with Spring Lock; Height 4¼ inches, Width 3¼ inches; Depth 2¾ inches.

Per Dozen

No. 1412—Weight per Dozen, 18½ lbs. **$6.00**
One in a Box

FILITUP

Fireproof Savings Bank

Black Enameled Sheet Steel, Bright Lettered; Finished to Exactly Imitate a Regulation Safe; Combination Lock Opens with Regular Detached Key; Height 3¾ inches, 2¾ inches Deep, 2½ inches Wide

Per Dozen

No. 2077—Weight per Dozen 21 lbs. **$1.70**
One in a Box

NATIONAL SAFE

Steel Sides and Back; Electro Oxydized Finish; Complete with Combination Lock; Cast Iron Top and Bottom; A very Attractive and Durable Safe; Encourages Thrift.

Per Dozen

No. 1401—Height 5 inches; Width 3¾ inches; Depth 3¾ inches; Weight per Dozen, 17½ lbs. **$8.50**
Six in a Box

STEEL SAFES

Extra Heavy Stamped Steel; Japanned Finish; Nickel Plated Combination Lock, Looks like Real Safe.

Per Dozen

No. 1658—4x3x2¾ inches; Weight per Dozen, 7½ lbs. **$4.50**

Half Dozen in a Package

BANKS

THE GLOBE SAFE

All Cast Iron Bank, Electro Oxydized; is Highly Polished and Plated. Makes a Very Handsome Ornament for a Home. Closed by Combination Lock with Guarded Coin Slot. One of the Most Beautiful and Attractive Banks Made.

A Perfect Spherical Shaped Bank.

Per Dozen

No. 2001—Height 5¼ inches; Globe 4 inches in Diameter; Weight per Dozen, 20 lbs. **$16.00**
One in a Box

BILLIKEN ON THRONE

Gold Bronze, Trimmed in Red. 6¾ inches High; 3⅛ inches Wide; 4 inches Deep

Per Dozen

No. 1652—Weight per Dozen, 60 lbs. **$3.00**
One Half Dozen in a Box

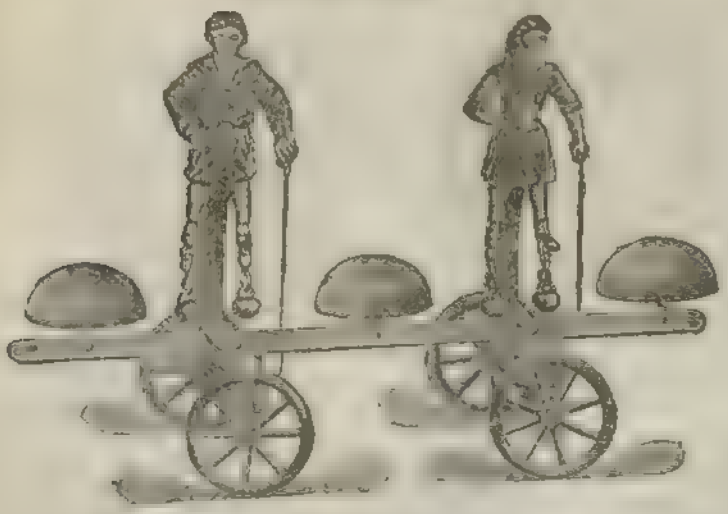
Cast Iron Finished in Black Enamel and Gold Bronzed, with Red Enameled Trimmings

Per Dozen

No. 1651—Assortment Consists of Two Horses and One Each Lion, Elephant, Pig and Dog. Size 4 to 6 inches Long; Weight per Dozen, 60 lbs. **$16.00**

One Assortment in a Package

ROLLER CHIMES

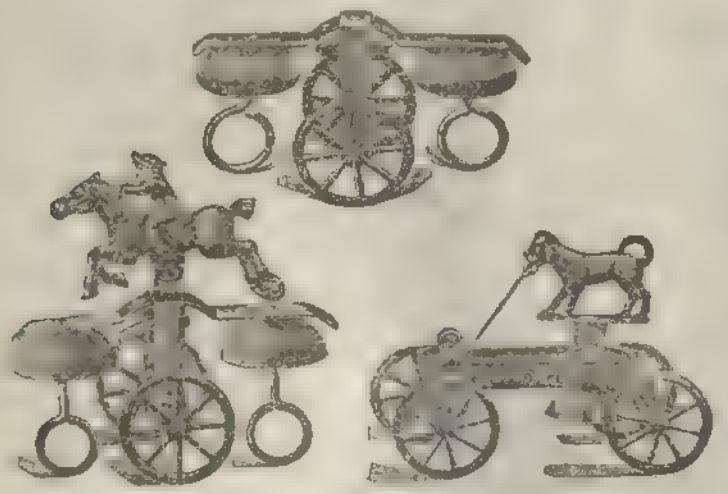


Four 2-inch Nickel Plated Steel Wheels, on Steel Base 11 inches Long; 3 Nickel Plated 1¾-inch Bells; 2 Figures of Boy and Girl, Enameled in Brilliant Colors, 4½ inches High, Connected to Axle so that Figures Dance Jigs as Wheels Turn and Strike Bells with Weights Suspended from Feet.

Per Dozen

No. 1474—Weight per Dozen, 12 lbs **$11 00**

Third Dozen in Package



Assortment of Three Styles, Animated Dog, Movable House and Plain 2-Bell Chime; Length 6 inches; 2-inch Nickel Plated Wheels; 1⅝-inch Nickel Plated Bells.

Per Dozen

No. 1471—Weight per Dozen, 15 lbs **$27 00**

Three Assorted Chimes in Package

DOLL CHIMES

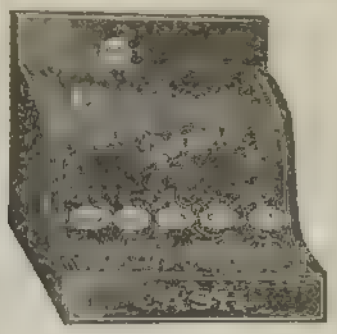
Musical Doll; Length 9 inches; Unbreakable Head; Natural Face, Blue Dress and Bonnet Trimmed with White Lace, with Fine Musical Chime.

Per Dozen

No. 1492—Weight per Dozen, 3 lbs **$5 00**

Half Dozen in a Package

TOY CASH REGISTERS



Operates Like Regular Cash Register; Five Keys; Stamped Steel; Black Japanned with Gold Decorations; 3¾x3¾x3½ inches.

Per Dozen

No. 1375—Weight per Dozen, 4 lbs **$4 00**

One in a Package

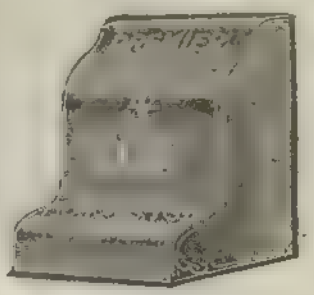
The Mechanism is Very Simple; it Works Perfectly and is Operated Like a Regular Cash Register. Three Keys. Children Playing House or Store or Similar Games Will Find This Toy Indispensable. Six Pieces of "Near" Money Go with Each Register; Full Instructions on the Back of Each Register.

Per Dozen

No. 2076—Size 2¾ inches Wide, 3⅝ inches Long, 3 inches High; Weight per Dozen 3 lbs **$3 50**

One Dozen in a Package

BANKS



PREMIER

Steel Coin Registering Bank

The Most Accurate and Dependable Mechanism Made; Registers Pennies, Nickles, Dimes, and Quarters; Opens Automatically When Ten Dollars Have Been Deposited; Finely Finished in Gold, Red and Black.

Per Dozen

No. 1332—3¾x5x5⅜ inches; Weight per Dozen 22 Lbs **$18 00**

One in a Box

PREMIER

Coin Registering Bank

Made of Cold Rolled Steel, Black Enameled, Gold Stenciled; Registers Pennies; Opens Automatically when Ten Dollars Have Been Deposited; Height 5⅛ inches; Width 4 inches; Depth 3⅛ inches.

Per Dozen

No. 1331—Weight per Dozen 19½ lbs **$11 00**

One in a Box

CAST IRON BAKE PANS

These Bake Pans Hold Heat Much Longer than Sheet Metal and are Preferred by Many on this Account

GEM PANS

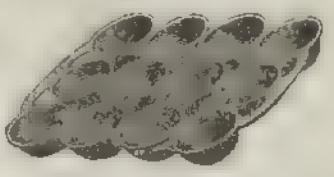
Per Dozen
No. G1—11 Cells; Size 11⅛x7¾ inches; Diameter of Cells 2½ inches; Depth ¾ in.; Weight per Dozen 42 lbs. **$10.00**
Loose

Per Dozen
No. G3—11 Cells; Size 12½x8½ inches; Diameter of Cells 3 inches; Depth ¾ inches; Weight per Dozen 45 lbs. **$10.00**
Loose

Per Dozen
No. G5—8 Cells; Size 12x7⅛ inches; Size of Cells 3¾x2⅝ inches; Depth ¾ inches; Weight per Dozen 39 lbs. **$10.00**
Loose

Per Dozen
No. G6—12 Cells; Size 13x7½ inches; Size of Cells 3¼x2 inches; Depth ¾ in.; Weight per Dozen 42 lbs. **$10.00**
Loose

Per Dozen
No. G8—11 Cells; Size 12¼x8⅜ inches; Diameter of Cells 3 inches; Depth ⅜ in.; Weight per Dozen 39 lbs. **$10.00**
Loose



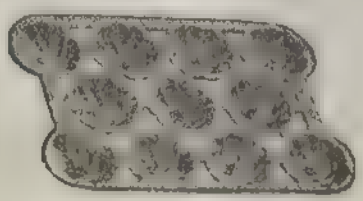
Per Dozen
No. G9—12 Cells; Size 10½x7 inches; Diameter of Cells 2⅜ inches; Depth 1 inch; Weight per Dozen 40 lbs. **$10.00**
Loose

Per Dozen
No. G10—11 Cells; Size 10½x7½ inches; Diameter of Cells 2½ inches; Depth 1¼ in.; Weight per Dozen 40 lbs. **$24.50**
Loose

Per Dozen
No. G11—12 Cells; Size 11⅝x6⅞ inches; Size of Cells 3x1⅞ inches; Depth ⅜ in.; Weight per Dozen 31 lbs. **$10.00**
Loose

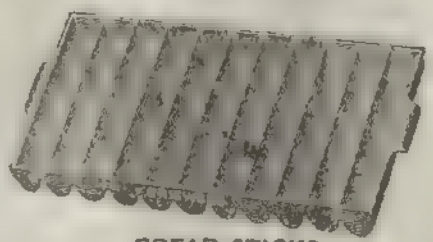
Per Dozen
No. G18—6 Cells; Size 8½x5 inches; Diameter of Cells 2½ inches; Depth 1¾ in.; Weight per Dozen 40 Lbs. **$6.50**
Loose

GEM PANS



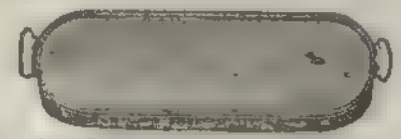
Per Dozen
No. G20—11 Cells; Size 10⅝x7½ inches; Diameter of Cells 2 inches; Depth ¾ in.; Weight per Dozen 40 lbs. **$10.00**
Loose

BREAD PANS



BREAD STICKS
Per Dozen
No. G22—11 Cells; Size 13⅜x7⅜ inches; Size of Cells 7x1⅝ inches; Weight per Dozen 66 lbs. **$13.50**
Loose

SOAPSTONE GRIDDLES



Soapstone ⅞ inch Thick; Galvanized Wire Handles; Galvanized Steel Bound

ROUND

Nos.	10	12
Diameter, Inches	10	12
Weight per Dozen, Lbs.	72	100
Per Dozen	$13.50	19.00

Loose

OBLONG

Nos.	918	1020
Size, Inches	9x18	10x20
Weight per Dozen, Lbs.	132	150
Per Dozen	$21.50	27.50

Loose

✣TANK HEATERS

Burns Coal or Wood, Cobs, etc.

✣STANDARD—GALVANIZED STEEL

With Flat Grate

Both Body and Bottom Made of 20 Gauge Steel; the Seam in the Body is Filled with Asbestos and Cement and is Absolutely Water-tight; the Bottom is Inserted in an Inverted Position, Riveted to the Body and Soldered on the Inside; the Grate is Hinged; Allowing One Half to be Raised and the Ashes Taken Out, Without Putting Out the Fire.

	Each
✣No. 1S—Diameter 16 inches; Height 24 inches; Weight Each 40 lbs.	$9.00
✣No. 3S—Diameter 19 inches; Height 24 inches; Weight Each 60 lbs.	10 50

One in a Crate

✣HARVARD—GALVANIZED STEEL

With Basket Grate

Both Body and Bottom Made of 20 Gauge Steel; the Seam in the Body is Filled with Asbestos and Cement and is Absolutely Water-tight; the Bottom is Inserted in an Inverted Position Riveted to the Body and Soldered on the Inside; the Fire Can be Taken Out with the Grate and Replaced without Rekindling.

	Each
✣No. 1H—Diameter 16 inches; Height 24 inches; Weight Each 50 lbs.	$9 50
✣No. 2H—Diameter 19 inches; Height 24 inches; Weight Each 70 lbs.	12 00

One in a Crate

✣TANK HEATERS

Burns Coal or Wood, Cobs, etc.

✣EVERLASTING

This Tank Heater is made of Cast Iron throughout. It will sink itself in the Water and can be used without hold-down Rods. Will work in Galvanized and Cement Tanks as well as in Wood. The Smoke Pipe is stationary and does not have to be moved to take the Ash Tray or Fire Pot out. Will Burn any kind of Fuel

With Cast Iron Elbow for Smoke Pipe; Complete with Cast Iron Ash Tray and Fire Pot, also 2 Foot Galvanized Stack with Damper and Spark Arrester.

	Size	Weight Lbs.	Each
✣No. 2	24x12	130	$12 00
✣No. 4	24x14	165	15.50
✣No. 6	24x16	185	19.00

One in a Crate

✣CALDRON KETTLE COOKERS

Unexcelled for Cooking Feed for Hogs, Poultry, Cattle, Horses or Sheep.

Invaluable on the Farm for Heating Water, Boiling Syrup, rendering Lard, making Soap, Scalding Hogs, etc., etc.

Boiler Steel Jacket; Removable Cast Iron Kettle; Cast Iron Flue which throws the Smoke up and around the Kettle before it passes into Smoke Pipe. Large Fire Door on all sizes, 12x15 inches.

Nos.	CK1	CK2	CK3	CK4	CK5	CK6	CK7
Capacity, Gal.	15	20	30	45	55	65	75
Kettle across Top, In.	24	26	30	34	36	38½	41
Depth of Kettle, In.	13½	15	16	18½	21	21	22
Weight Each, Lbs.	100	125	175	200	250	275	300
Each	$18.50	20.00	28 00	29.00	33.00	39.00	44.00

	Each Extra
Hinged Wood Cover for any of above Sizes	$1.70
Elbow, Joint Pipe and Damper, Complete	1.50
Coal Grates	6.50

One in a Crate

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

MECHANICAL TRAINS

CLOCK SPRING MOTIVE POWER

Iron Locomotive, 7¼ inches Long, with Automatic Brake and Piston Rod; 4-inch Tender with Imitation Coal; Three 5½-inch Coaches; 18 Sections of Track and One Crossing Section with Tunnel, Bridge, and Semaphore. The Bridge and Semaphore Are Made from the Popular Steel Construction Toy Material and Can Be Used with that Class of Toys in Building Many Railroad Structures.

Per Dozen

No. 906—Weight per Dozen, 19 lbs..... **$96 00**

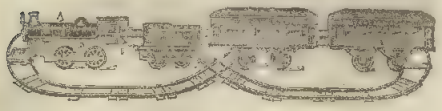
One Set in a Carton

Locomotive and Tender same as in No. 906 Outfit Described Above; Two 6½ inch Coaches; 14 Sections of Track, with Two Switches; Making a Combination Oval and Round Design.

Per Dozen

No. 905—Weight per Dozen, 56 lbs..... **$78.00**

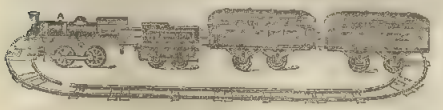
One Set in a Carton



Locomotive and Tender same as in No. 906 Outfit Described above; Two 6½-inch Coaches; 14 Sections of Track, with One Crossing Section, Making Figure 8 Design.

Per Dozen

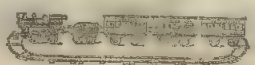
No. 904—Weight per Dozen 52 lbs. **$60 00**

One Set in a Carton

Locomotive and Tender same as in No. 906 Outfit, Described Above; Two 6½-inch Coaches; 10 Sections of Track, Making a Large Oval.

Per Dozen

No. 903—Weight per Dozen, 45 lbs..... **$48 00**

One Set in a Carton



Iron Locomotive, 6 inches Long; 4-inch Tender; Three 5½-inch Coaches; 8 Sections of Track, Making a Large Oval.

Per Dozen

No. 902 Weight per Dozen, 41 lbs. **$36 00**

One Set in a Carton

MECHANICAL TRAINS

CLOCK SPRING MOTIVE POWER

Locomotive and Tender same as No. 902 Outfit; Two 5½-inch Coaches; 6 Sections of Track, Making Oval Design.

Per Dozen

No. 901 Weight per Dozen 31 lbs. **$22.00**

One Set in a Carton

Locomotive, Cars and Tender All Steel Construction; Very Attractively Lithographed in Yellow, Green and Black; Engine Has All-Steel Geared Clock Works, Which Insures Long Wearing Qualities; Brightly and Attractively Finished.

Per Dozen

No. 916—Length of Train 14 inches; 4 Sections of Circular Track, Making Over 5 Feet of Track; Weight per Dozen, 16 lbs.... **$13 50**

One Set in a Carton

Same as No. 916 Outfit with the Addition of One More Coach and Two More Sections Straight Track, Making Large Oval Track.

Per Dozen

No. 918—Length of Train 19 inches; with 6 Sections of Track; Weight per Dozen 32 lbs.. . . . . **$18 00**

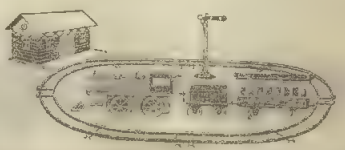
One Set in a Box

Same as No. 916 Outfit with the Addition of One More Coach and Two More Curved Sections of Track and One Crossing Section, Making 10 Feet of Figure 8 Track

Per Dozen

No. 917—Length of Train 19 inches; with 6 Sections of Track and Crossing Section; Weight per Dozen Sets 34 lbs.....**$30.00**

One Set in a Box



Same as No. 9[illegible] Outfit with Addition of Handsome Steel Station 6x4½ inches Long, Bright Red Roof and Small Semaphore in Colors 7½ inches High, with Automatic Signal Operator.

Per Dozen

No. 919—Length of Train 19 inches; 4 Sections of Circular Track, Station and Semaphore; Weight per Dozen Sets [illegible] lbs. **$27 00**

One Set in a Box

MECHANICAL TRAINS
GRAVITY POWER

Consists of Brilliantly Enameled Steel Station 22 inches High with Elevator for Raising Track; Five Sections of 10 inch Track 1½ inches Wide, Enameled Steel Incline and Bumper, and Enameled Coach, 6½ inches Long; Enameled in Bright Colors. When Train is Elevated at Station, by Pulling Cord, the Car Runs Full Length of Track and Stopped by Bumper; When String is Released, Track Lowers to Original Position and Car Immediately Returns to Station.

Per Dozen

No. 927—Weight per Dozen 32 lbs. **$15.00**

One in a Package

AUTO SPEEDWAY TOYS

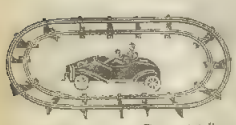
Double Speedway

Consists of Curved Sectional Track and Bridge Work to make Two Oval Banked Speedway Tracks 5½x3 Feet; Heavy Bright Tin; Deep Formed Rail Prevents Speeding Cars from Jumping Track; Strong Bridgework in Exact Imitation of Steel Girders Used in Bridges; Two Strong Steel Automobiles; with Removable Drivers, 8 inches Long; Enameled in Brilliant Colors and Gold Bronzed; Motor Winds up by Turning Starting Crank.

Per Dozen

No. 419—Weight per Dozen 108 lbs. **$120.00**

One Dozen in a Package



Same as No. 419 Except with Lower Speedway Track only and One Racing Automobile.

Per Dozen **$50.00**

No. 417—Weight per Dozen 60 lbs.

One Dozen in a Package

STEEL TRAINS
Not Mechanical

Freight Train—Consists of Large Mogul Locomotive with Friction Drive Power; Separate Tender; Open Coal Car; Merchandise Car, with Sliding Doors, and Caboose, Enameled Bright Red and Yellow, Decorated and Lettered in Gold Bronze.

Per Dozen

No. 454—Length 65 Inches; Height 8 inches; Weight per Dozen 90 lbs. **$48.00**

Half Dozen in a Package

IRON TRAINS
NOT MECHANICAL

Cast Iron Locomotive, Steel Tender, and Coaches; Cars Joined by a Lever Coupling. Locomotive Black Enameled with Red Wheels, and Red and Gold Trimming, Nickel Plated Drive Shaft; Coaches Red Enameled; Tender Black Enameled; All Gold Trimmed and Lettered; Length 44 inches.

Per Dozen

No. 1423—Weight per Dozen 40 lbs. **$17.00**

One in a Package

Cast Iron Locomotive and Tender, Black Enameled with Gold Trimmings; Four Steel Coaches, Enameled in Solid Colors, One each Red, White, Blue and Yellow; Length 30 inches.

Per Dozen

No. 1422—Weight per Dozen 15 lbs. **$8.00**

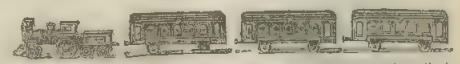
Half Dozen in a Package

Cast Iron Locomotive and Tender; Black Enameled with Gold Trimmings; Two Steel Coaches, Red Enameled, Length 17 inches.

Per Dozen

No. 1421—Weight per Dozen 9 lbs. **$4.70**

Half Dozen in a Package



Locomotive and Tender, with Three Coaches, Locomotive Black Enameled, with Wheels and Gold Trimmings; Coaches, One Each Red Enameled, Aluminum Bronzed, and Blue Enameled; Length 21 inches.

Per Dozen **$9.00**

No. 1313—Weight per Dozen 24 lbs. ..... .

Quarter Dozen in a Package

Locomotive and Tender, with Two Coaches. Locomotive Black Enameled with Red Wheels and Gold Trimmings; Coaches Red Enameled. Length 14 inches.

Per Dozen **$4.30**

No. 1312—Weight per Dozen 15 lbs.

Half Dozen in a Package

HOUSE ANCHORS

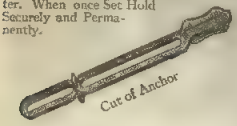
SECURITY BOND ANCHORS

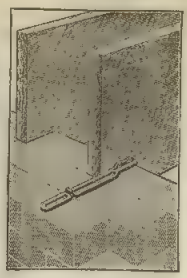
Made of Malleable Iron

Bonds through Wall within one Inch of Outside Face of Brick, Just at the Point Where Additional Strength is Needed. Clean to Handle, Easy to Adjust; No Clipping of Brick, a Time Saver, No Unsightly Appearance on the Outside of the Wall.

The Only Anchor Made that Bonds the Different Courses of Brick Through the Wall.

Length 12 inches, Width 1¼ inch; Projections Rest in the Joints of the Brick Mortar Bed in the Hollow Center. When once Set Hold Securely and Permanently.





Cut Shows Anchor Applied Through Wall Holding Joist

Per 100

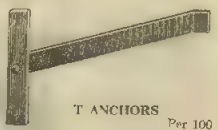
No. SBA Security Wall Anchors. For any Thickness of Wall, Tied in bundles. Weight per 100, 50 lbs.....$13.00

Loose

Plain Cast Iron Star with Ribbed Center and Points; Steel Bar, with End Bent to sink into Joist. Diameter of Star 7½ inches. Bar 1⅛ x⅛ inch.

With Nut Per 100

No. N13—For 13-inch Wall; Wt. per 100, 230 lbs..$38.00



T ANCHORS Per 100

No. T13 For 9 or 13 inch Wall, Wrought Iron; ¾x1 inch Bar, with End Bent to Drive into Joist; Weight per Hundred, 150 lbs.....$24.00

Anchors Tied 12 in a Bundle

STARS ONLY

STARS ONLY

Per 100

No. S0—Stars Only without Bar; Weight per 100, 130 lbs.....$20.00

Loose

PORCH SUPPORTS

LONG STEM

Japanned Cast Iron; Takes No. 12 Screws.

Per Dozen Sets

No 1—Two Pieces, Diameter 8½ inches; Weight per Dozen Sets, 9½ lbs.....$1.80

Loose

ARCH

Japanned Cast Iron; Takes No. 11 Screws.

Per Dozen Sets

No. 2 One Piece; Spread at Base 9½ inches; Height to Shoulder 4⅞ inches; Weight per Dozen Sets, 8¾ lbs.....$1 70

Loose

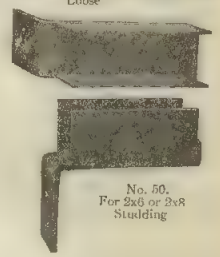
WAGNER STUDDING SOCKETS

The All-Purpose Sockets for Cement Floors

The Only Way to Attach Studding to Cement Floors and **Do It Right** is to Use Galvanized Iron Sockets. This Method Unfailingly Assures Strong Windproof Buildings that Cannot be Undermined by Rot.

The Wagner Studding Socket is the Only All-Purpose Socket on the Market. One Style of Socket is Used for Corners, Intermediate Studdings, etc.

No. 10.
For 2x4 or 2x6 Studding

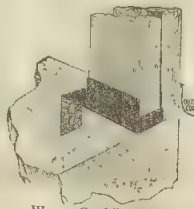


No. 50.
For 2x6 or 2x8 Studding

The Wagner Socket Gives Perfect Results anywhere it is Used. No. 10 will Take a 2x4 or a 2x6 equally well, and No. 50 is Used for 2x6 or 2x8 Studding.

Socket is Set in Place on the Soft Cement with the Elbow or Angle Inside. Spikes are then Driven Through the Holes in the Bottom into the Cement.

When the Cement is Hard, Timbers are Inserted Between the Uprights "B" and are Bolted or Screwed Solidly into Place Through the Three Holes in the Side.



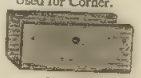
Wagner Studding Socket as Used for Corner.

For Corners the Studding is Set in the Wagner Socket two inches Away from the Corner, and the Corner Piece then Spiked or Bolted onto this studding which Brings it Flush with the Edge, and the Result is a Strong, Sturdy Corner that will Stand all Kinds of Strain.

These Sockets are Made of Tough Iron, **Galvanized** with High Grade Zinc Spelter and will Resist Rust for Years.

No. 50 is the Same Type of Socket as No. 10, but is Somewhat Heavier and Larger, being Intended for Building Barns and Large Buildings where Either 2x6 or 2x8 Studding is Used.

No. 25 is the same as No. 10, Except it is Made without the Elbow or Angle that Extends Down into the Cement and is Intended for Holding the Studding of Partitions where so Strong a Brace is not Required as for the Outside Frame of a Building. It is Set on Top of the Fresh Cement and Firmly Held by Spikes.

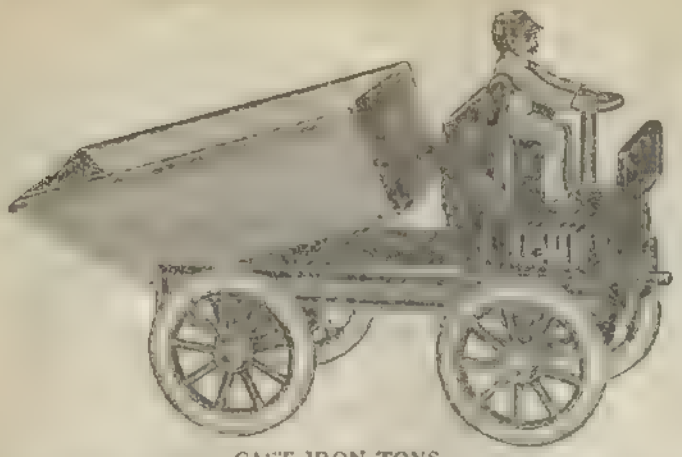


No. 25.
Studding Socket for Partitions

	Per Dozen
No. 10—Wagner Studding Sockets, for 2x4 or 2x6 Studding, Weight per dozen, 21 lbs.	$5.00
No. 50—Wagner Studding Sockets, for 2x6 or 2x8 Studding; Weight per dozen, 24 lbs.	5.50
No. 25—Wagner Studding Sockets, for 2x4 or 2x6 Studding, Weight per dozen, 9 l..	2.50

Packed Loose. Two Heavy Galvanized Spikes Furnished with Each Socket.

IRON AND STEEL TOYS



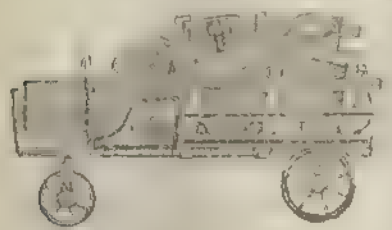
CAST IRON TOYS

Auto [illegible] Trucks, [illegible]th Automatic Dumping Body [illegible] Heavy Cast Iron [illegible] Bright Red and Gold Bronze; Dull Nickel Plated Wheels, with Starting Crank; Enameled Chauffeur.

Per Dozen

No. 1127—Length 6½ inches; Width 3¾ inches; Height [illegible] inches; Weight per Dozen 22 lbs **$6 00**

One in a Package

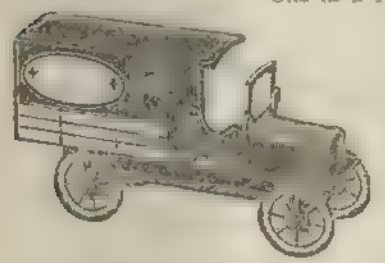


Auto Truck; Wood Body, Stained Bright Red; Steel Wheels, with Green [illegible] Rims and Hubs; Hollow [illegible] Removable Chauffeur [illegible] of [illegible] Simile Labels of Nat[illegible] Advertised Products.

Per Dozen

No. 1255—Length 10¼ inches; Width 4½ inches, Height 6 inches, Weight per Dozen 12 lbs.. ..... **$9 00**

One in a Package



Parcel Post Auto Truck; Stamped Steel; Enameled and Decorated with Brilliant Colors; Thick Hollow Wheels.

Per Dozen

No. 1434 [illegible] 3½ inches; Weight per Dozen 4½ lbs..... **$4 50**

Half Dozen in a Package

Auto Coal Truck; Stamped Steel; Enameled in Black, Yellow and Gray; with Dumping Hopper; Thick Hollow Wheels.

Per Dozen

No. 1436—9¼x3¼ inches; Weight per Dozen 4 lbs..... **$4 50**

Half Dozen in a Package

Auto Truck; Stamped Steel; Enameled in Bright Yellow and Black; Thick Hollow Wheels.

Per Dozen

No. 1435—9x3½ inches; Weight per Dozen 4½ lbs.. ..... **$4 50**

Half Dozen in a Package

IRON AND STEEL TOYS

Steel Wagon Body; Enameled Bright Yellow; Cast Iron Aluminum Bronzed Horse and Red Enameled Wheels; Length 10½ inches; Height 3 inches.

Per Dozen

No. 1304—Weight per Dozen 10½ lbs. **$4.80**

Half Dozen in a Package

Coal Cart; 7x3¾ inches; Wood Body, Stained Bright [illegible] Striped and Lettered in [illegible], Steel Wheels with Green [illegible] Rims and Hubs; Handsomely Lithographed Donkey on Flat Wood Sawed Shape.

Per Dozen

No. 1254 [illegible] **$4 30**

Half Dozen in a Package

Dump Wagon; Extra Heavy; Well Made; Enameled Bright Red with Gold Bronzed [illegible]ing and Trimmings; Dull Nickel Plated Wide Tire Wheels; Lever Dumping Bottom; Extra Large Black Enameled Horse; Gold Bronzed Removable Driver; Complete with Cast Iron Pick and Shovel.

Per Dozen

No. 1126—Length 13½ inches, Height 6 inches, Weight per Dozen 36 lbs..... **$11 00**

One in a [illegible]

Ice Wagon; Extra Heavy; Nicely Plated Body; Bright Red Wheels; Large Black Enameled Horse with Gilded Harness; Removable Driver.

Per Dozen

No. 1311—[illegible] 21 lbs **$9 00**

Quarter Dozen in a Package

Express Wagon; Aluminum Bronzed, with Red Enameled Wheels; Length 8¾ inches; Height 4 inches.

Per Dozen

No. 1305—Weight per Dozen 15 lbs..... **$4 50**

Half Dozen in a Package

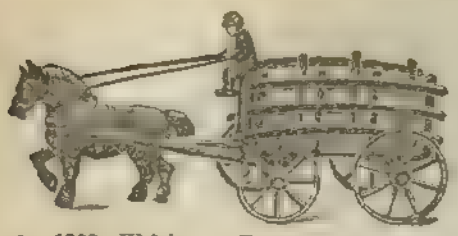
Dray; Body Enameled Bright Red, with Yellow Wheels; Black Enameled Mule with Gilded Harness; Removable Driver; Complete with 4 Turned Hardwood Barrels.

Per Dozen

No. 1310—Weight per Dozen 16 lbs..... **$9 00**

Quarter Dozen in a Package

IRON AND STEEL TOYS



Dray; Aluminum Bronzed, with Red Enameled Wheels; Length 8½ inches; Height 4 inches.

Per Dozen

No. 1303—Weight per Dozen 15 lbs... ..... $4 50

Half Dozen in a Package

Dump Wagon; Aluminum Bronzed, with Red Enameled Wheels; Length 9¼ inches; Height 3¾ inches.

Per Dozen

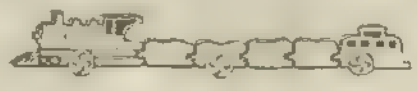
No. 1307—Weight per Dozen 15 lbs..... $4 50

Half Dozen in a Package

ENAMELED WOOD TOYS

SERPENTINE WOOD TOYS

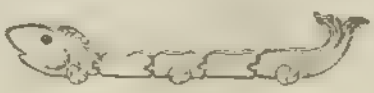
Solid Wood; Each Section Cut Out and Joined together so that when Drawn along the Floor they Move in a Peculiar Fascinating Serpentine Manner; Enameled and Decorated in Rich Striking Colors; Very Durable.



Per Dozen

No. 1167 Railroad Train; Length 24 inches; Weight per Dozen 24 lbs... $18 00

One in a Package



Per Dozen

No. 1168 Sea Serpent, Length 21 inches; Weight per Dozen 24 lbs... $18 00

One in a Package

Per Dozen

No. 1169—Crocodile; Length 24 inches; Weight per Dozen 12 lbs..... $18 00

One in a Package

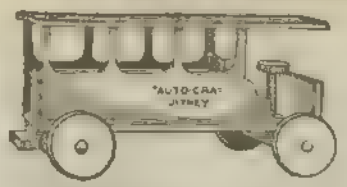
Automobile Racer; All Wood; Painted Bright Blue and Yellow; Removable Shaped Wood Driver with Movable Arms, Painted Brown; Very Attractive and Durable.

Per Dozen

No. 1334—Length 14¾ inches; Width 4½ inches; Weight per Dozen 15 lbs... $4 50

One in a Package

ENAMELED WOOD TOYS



Automobile "Jitney;" All Wood; Enameled Bright Red with Yellow Wheels; Front Wheels Turn with Steering Wheel; Very Substantial and Attractive.

Per Dozen

No. 2073—Length 11 inches; Width 5½ inches; Height 5½ inches; Weight per Dozen 16 lbs..... $18 00

One in a Package

Sightseeing Automobile; All Wood; Enameled Bright Red, with Yellow Wheels; Front Wheels Turn with steering Wheel; Very Substantial and Attractive.

Per Dozen

No. 2074—Length 13 inches; Width 5¾ inches; Height 5¾ inches; Weight per Dozen 18 lbs..... $18 00

One in a Package

Limousine Automobile; All Wood; Enameled White with Gilt Lettering, Very Substantial and Attractive.

Per Dozen

No. 2070—Length 11¾ inches; Width 5½ inches; Height 5½ inches; Weight per Dozen 17 lbs..... $18 00

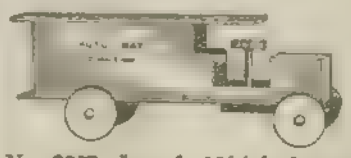
One in a Package

Limousine Automobile; All Wood; Enameled Bright Red, with Yellow Wheels; Very Substantial and Attractive.

Per Dozen

No. 2071—Length 11 inches; Width 5¾ inches; Height 6½ inches; Weight per Dozen 16 lbs..... $18 00

One in a Package



Storage Van; All Wood; Enameled Bright Blue, with Yellow Wheels, Steering Post Turns Front Wheels, Very Substantial and Attractive.

Per Dozen

No. 2067—Length 12¾ inches; Width 5¾ inches; Height 5¾ inches; Weight per Dozen 14 lbs... $9 50

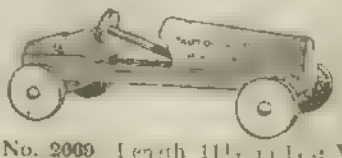
One in a Package

Auto Truck; All Wood; Enameled Bright Green, with Yellow Wheels; Steering Post Turns Front Wheels.

Per Dozen

No. 2068—Length 12 inches; Width 5¾ inches; Height 5½ inches; Weight per Dozen 12 lbs..... $9 50

One in a Package

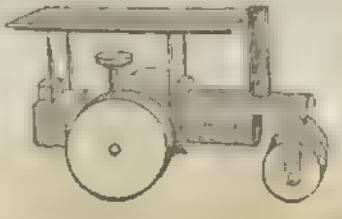


Racing Automobile; All Wood; Enameled Bright Red, with Yellow Wheels; Steering Post Turns Front Wheels; Very Substantial and Attractive.

Per Dozen

No. 2069—Length 11½ inches; Width 5¼ inches; Weight per Dozen 12 lbs... $9 50

One in a Package



Steam Roller; All Wood; Painted Black, with Aluminum Bronzed Lettering; Substantial and Attractive.

Per Dozen

No. 2072—Length 11 inches; Height 6¾ inches; Weight per Dozen 20 lbs..... $18 00

One in a Package

TOY RANGES

Top and Back; Brassed Doors; Five Holes with Removable Lids; Complete with Tin Utensils, Four Covered Sauce Pans, One Each, Fry Pan, Platter, Cake Pan and Scoop.

Per Dozen

No. 1688—Weight per Dozen 12 lbs. **$11 00**

One in a Package

Nickel Plated Cast Iron Top, Base and Swinging Oven Doors; Jet Black Finish Cast Iron and Steel Body; Two Holes with Removable Lids; Complete with Cast Iron Skillet and Kettle and One Length of Stove Pipe; Length 5½ inches; Width 4¾ inches; Height without Pipe 3½ inches.

Per Dozen

No. 2014—Weight per Dozen 21 lbs. . **$5.00**

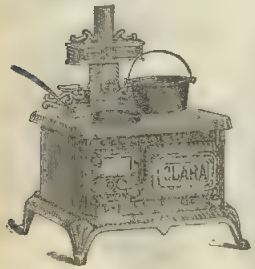
Half Dozen in a Box

Nickel Plated Cast Iron; 2 Holes with Removable Lids, Swing Oven Door; Complete with One Length of Stove Pipe, Cast Iron Skillet, Kettle, and Lid Lifter; Length 5 inches; Width 3 inches; Height without Pipe 3½ inches.

Per Dozen

No. 1402—Weight per Dozen 16 lbs **$4.70**

One Dozen in a Box



Nickel Plated Cast Iron; 4 Holes with Removable Lids, Swinging Oven Doors; Nickel Plated Cast Iron Warming Closet; Complete with Cast Iron Kettle; Two Skillets, and Lid Lifter; Length 5¾ inches; Width 4¾ inches; Height 6½ inches.

Per Dozen

No. 1440—Weight per Dozen 27 lbs. **$8 50**

Third Dozen in a Box

Cast Iron; Nickel Plated Top, Base, Door and Removable Extension Shelf; Swinging Oven Doors, with Grate and Oven Lining; 4 Holes with Removable Lids; Complete with One Length of Stove Pipe, Cast Iron Skillet, Kettle and Lid Lifter, Length 8½ inches; Width 4½ inches; Height without Pipe 5 inches.

Per Dozen

No. 1403—Weight per Dozen 42 lbs. **$17 00**

One in a Box

TOY RANGES

Cast Iron; All Nickel Plated; Removable Hearth; Lined Oven; Dumping Grate; 4 Holes with Removable Lids; Reservoir with Removable Cover; Swinging Oven Doors; Complete with One Length of Stove Pipe, Cast Iron Skillet, Kettle, and Lid Lifter and Shaker.

Per Dozen

No. 1413—Weight per Dozen 45 lbs. **$18 00**

One in a Box

All Nickel Plated; Cast Iron, Removable Hearth; Lined Oven; Dumping Grate; 4 Holes with Removable Lids; Swing Oven Door; Complete with One Length Black Stove Pipe. Cast Iron Skillet, Kettle, and Lid Lifter and Shaker.

Per Dozen

No. 1411—Weight per Dozen 36 lbs. **$13 50**

One in a Box

All Cast Iron; Japanned; Swing Oven Doors; Lids and other Doors Unmovable; Length 3½ inches, Width 2½ inches; Height 3¾ inches.

Per Dozen

No. 1125—Weight per Dozen 10 lbs. **$2 70**

Half Dozen in a Box

Gas Range; Length, with Shelf, 9½ inches; Depth 5¼ inches; Height 10 inches; Nickel Plated Cast Iron Top, Extension Shelf, Warming Shelf, Base and Drop Oven Door with Gravity Latch; Cast Iron Double Burners; Heavy Steel Body; Jet Black Finish; Complete with Cast Iron Fry Pan and Sauce Pan.

Per Dozen

No. 2004—Weight per Dozen 54 lbs. **$27 00**

One in a Box

Gas Range; Length 7 inches; Width 4½ inches; Height 9 inches; Nickel Plated Cast Iron Top, Warming Shelf, Base and Drop Oven Door with Gravity Latch; Cast Iron Single Burner; Heavy Steel Body, Jet Black Finish; Complete with Cast Iron Fry Pan and Kettle.

Per Dozen

No. 2003—Weight per Dozen 36 lbs **$21 60**

One in a Package

Gas Range; Length 6¼ inches; Width 4½ inches; Height 6 inches; Nickel Plated Cast Iron Top, Base and Drop Oven Door with Gravity Latch; Cast Iron Single Burners, Heavy Steel Body, Jet Black Finish; Complete with Cast Iron Fry Pan.

Per Dozen

No. 2002—Weight per Dozen 27 lbs **$17 00**

One in a Box

FLOUR SIFTER

Hunter Pattern; a thoroughly Practical Sifter; Capacity One Cup Flour; Height 3½ inches; Diameter 3⅛ inches; Bright Tin; Side Crank with Hard Wood Knobs; Rod Extends through Side; Strong Wire Mesh; Soldered Handle.

Per Dozen
No. 1376—Weight per Dozen 3 lbs. $2 50
Two Dozen in a Package

PASTRY SETS

All little girls who like to make mud pies will appreciate one of these pastry sets. Each set consists of a moulding board, a rolling pin, potato masher and wooden bowl, in box with lithographed label.

Per Dozen
No. 247—5x7 inches; Weight per Dozen 4 lbs. $1 40
One Dozen in a Package

No. 248—6¼x10 inches; Weight per Dozen 9 lbs. 2 40
Half Dozen in Package

No. 249—8¼x14 inches; Weight per Dozen 12½ lbs. 5 50
Half Dozen in Package

COFFEE MILLS

Juvenile; Thoroughly Practical; Varnished Hardwood Dovetailed Box, 4x4x2¾ inches, with Drawer; Chilled Iron Adjustable Grinders; 3⅛ inch Gold Bronze Open-Hopper and Iron Crank with Wood Knob.

Per Dozen
No. 1137—Weight per Dozen 15 lbs. $8 00

One in a Package

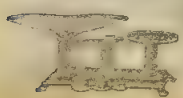
Little Tot; Varnished Hardwood Box, 2¾x2¾x2 inches; Wood Drawer, with Bronze Iron Front; Cast Iron Grinders; Gold Bronze Cast Iron Open Hopper and Crank.

Per Dozen
No. 1139—Weight per Dozen 6 lbs. $2 60
One Dozen in a Package

TOY SCALES

Cast Iron Beam and Standard; Blue Enameled Tin Scoop, with 4 Iron Weights; Length 8¾ inches;

Per Dozen
No. 1658—Weight per Dozen 13½ lbs. $4.50
One in a Package



Cast Iron Beam and Standard; Blue Enameled Tin Scoop; with 3 Iron Weights; Length 5½ inches.

Per Dozen
No. 1657—Weight per Dozen 10½ lbs. $2.00
One in a Package

TOY SAD IRONS

Mrs. Pott's Pattern; A Practical Size for Small Work; Length 3¼ inches; Nickel Plated and Polished; Gold Bronzed Top Plate; Removable Handle, with Finished Hardwood Grip; Complete with Bronze Iron Stand.

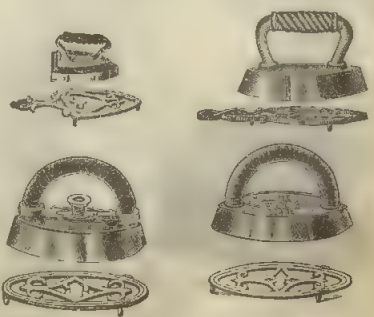
Per Dozen
No. 1654—Weight per Dozen 16½ lbs. $4 50
One in a Box

Mrs. Pott's Pattern; Length 3¾ inches; Full Polished; Nickel Plated Top Plate, Removable Handle with Nickel Plated Stretcher and Hardwood Grip; Complete with Bronze Iron Stand.

Per Dozen
No. 1655—Weight per Dozen 12½ lbs. $3.80
Half Dozen in a Box

Length 2⅞ inches; Full Polished; Japanned Top Plate; Wood Handle, Not Removable; Complete with Bronze Iron Stand.

Per Dozen
No. 1653 Weight per Dozen 6 lbs. $1 80
One Dozen in a Box



Assorted Three Common Sad Irons and Three Mrs. Pott's Pattern; Lengths Assorted 2¾ to 3¾ inches; Weights Assorted 7 Ounces to 10 Ounces; Each with Bronze Iron Stand.

Per Dozen Assortments
No. 1659 Assortment of Six Styles as Described Above, Weight per Dozen Assortments 60 lbs. $10.00
One Assortment in a Box

CELLULOID DOLLS

Sitting Doll; Length 5 Inches; Height Sitting 3¾ Inches. Hollow Celluloid; Natural Flesh Colored Features; Jointed [illegible]; Arms and Legs are Chubby and Bent in the Curved Positions Natural in Babyhood; for this Reason the Doll is Better Adapted for Sitting and Reclining Positions than Standing.

Per Dozen

No. 1643—Weight per Dozen 1 lb..... **$5 00**

Half Dozen in a Box

Sitting Doll, Hollow Celluloid, Natural Flesh Colored Features; Jointed Head and Shoulders. The Arms and Legs are Chubby and Bent in the Curved Positions Natural in Babyhood; for this Reason the Doll is Better Adapted for Sitting and Reclining Positions than Standing.

Per Dozen

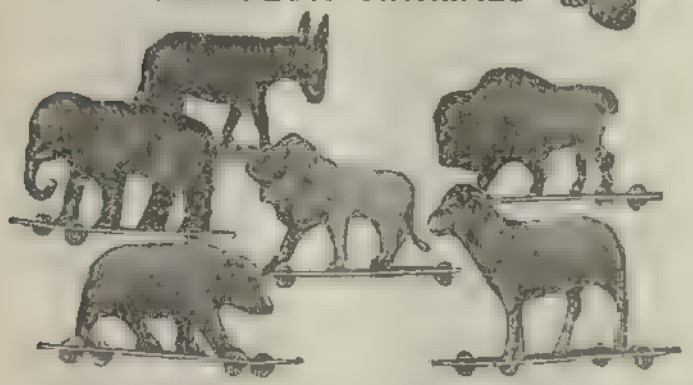
No. 1645—Length 9¾ Inches; Height Sitting 7 Inches; Weight per Dozen 3 lbs..... **$24.00**

One in a Box

No. 1644—Length 7 inches; Height Sitting 5 inches; Weight per Dozen 1 lb... **10 00**

Quarter Dozen in a Box

CELLULOID ANIMALS



Hollow Celluloid; Very Life Like; In Natural Colors; Length about 4 Inches; Mounted on Polished Bases 4½x1¾ inches; with White Ivoroid Wheels; The Assortment Consists of 2 Each, Elephant, Bear, [illegible], Lion, Mule, Arabian Horse

Per Dozen

No. 1641—Weight per Dozen 1 lb..... **$5 00**

One Dozen in a Box

Assorted Domestic Animals; Hollow Celluloid, Extremely Natural and Life Like Shapes; Hand Colored; Length about 5½ inches; Mounted on Polished Bases 5x2¼ Inches with White Ivoroid Wheels.

Per Dozen

No. 1642—Weight per Dozen 1¾ lbs..... **$10 00**

Third Dozen in a Box

RUBBER DOLLS AND ANIMALS

Clown; Height 5 Inches; Hollow Rubber, with Whistle; Painted Features.

Per Dozen

No. 1502—Weight per Dozen 1½ lbs..... **$1 50**

One Dozen in a Box

Height 6½ Inches; Hollow Rubber; with Whistle, Colored Features; Red Knitted Dress and Red Knitted Picture Hat.

Per Dozen

No. 1507—Weight per Dozen 2 lbs..... **$4 50**

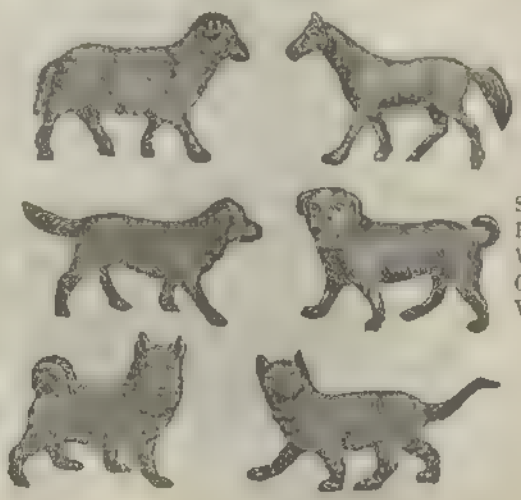
Half Dozen in a Box

Assorted Characters: Sailor, Fireman, Barefoot Boy, and Clown; Hollow Rubber, with Whistle; Height 6½ Inches.

Per Dozen

No. 1510—Weight per Dozen 3½ lbs..... **$4 50**

Half Dozen Assorted in a Box



Assorted Dogs, Cats Sheep, and Horses; Hollow Rubber, with Whistle; Length 5 to 6 Inches; Colored Eyes, Very Natural.

Per Dozen

No. 1506—Weight per Dozen 3 lbs..... **$4 50**

Half Dozen Assorted in a Box

DOLLS

ROLLY POLLY

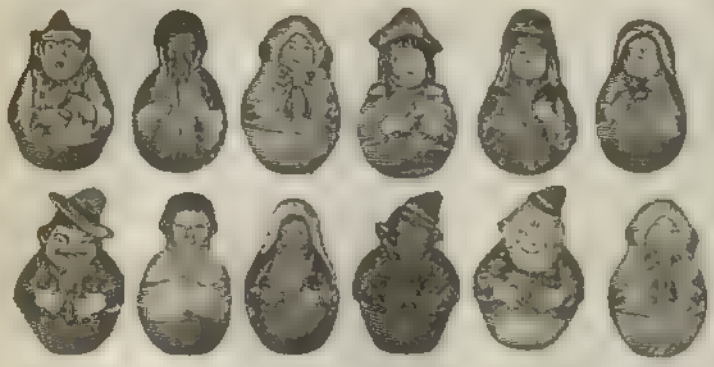
SCHOENHUTS

Weighted Oval Bottoms so Adjusted that when placed in any other Position they Immediately Assume an Erect Position with a Rocking, Swaying Motion, very Fascinating to Children; Practically Indestructible; Enameled in Brilliant Colors; Handsomely Finished.

Per Dozen

No. 524—Assorted Characters; Santa Claus, School Master, Clown and Dutch Girl; Height 9 inches; Stationary Heads; Weight per Dozen 13 lbs. $16 00

One in a Box



Per Dozen

No. 532—Assorted, 12 Characters as Illustrated Above; Stationary Heads; Height 4½ inches; Weight per Dozen 3 lbs $3 60

One Dozen in a Box

Per Dozen

No. 533—Assorted 6 Characters as Illustrated Above; All but Santa Claus have Movable Heads; Height 6½ inches. Weight per Dozen 3 lbs. $6 50

Half Dozen in a Box

The Grotesque Movements of the Rolly-Pollys Add Greatly to the Amusement Given by these Characters; they seem to Dance and Play Musical Instruments in Most Comical Animal Fashion.

Per Dozen

No. 534—Assorted Six Characters as Illustrated Above; Height 8 inches; Stationary Heads; Weight per Dozen 4 lbs. $9 00

Half Dozen in a Box

DOLLS

ROLLY POLLY

SCHOENHUTS

Per Dozen

No. 525—Assorted Six Characters as Illustrated above; Height 8 inches; Movable Heads, Weight per Dozen 4½ lbs. $9 50

One Dozen in a Box

DOLL STANDS

Wrought Steel; Galvanized; Spring Wire Friction Adjustment.

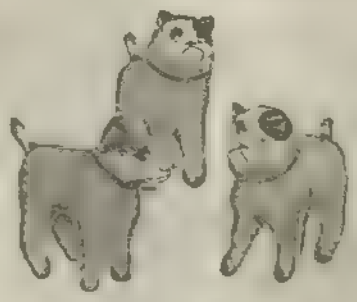
Per Dozen

No. 685—Height 7¼ inches; Fully Extended 13 Inches; Diameter of Base 5¼ inches; Weight per Dozen 6 lbs. $5 00

No. 686—Height 10½ inches; Fully Extended 18½ inches; Diameter of Base 6¾ inches; Weight per Dozen 12 lbs. 8 50

Loose

STUFFED ANIMALS



Assorted Dogs and Cats; White Cotton Flannel Coat; Marked in Natural Colors; Shoe Button Eyes; with Collar.

Per Dozen

No. 1398—Height 7½ inches; Length 9 inches; Weight per Dozen 3½ lbs. Assorted 8 Dogs and 4 Cats . $7 50

One Dozen in a Box

Assorted Dogs and Cats; White Cotton Flannel Coat; Marked in Natural Colors; Shoe Button eyes; With Collar.

Per Dozen

No. 1399—Height 12 inches; Length 18 inches; Weight per Dozen 15 lbs. Assorted 2 Dogs and 1 Cat . . . $13 00

Quarter Dozen in a Box

Improved Burners for Locomotive Oil Headlights

No. 62
Center Draft

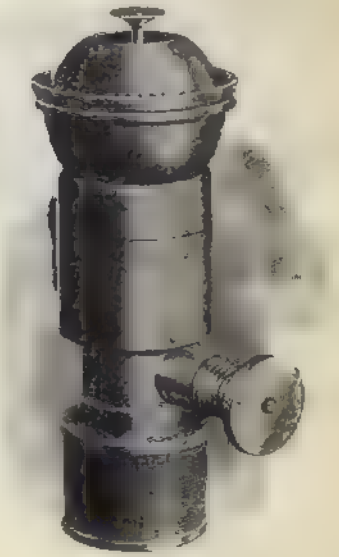
No. 62 Center Draft

Takes No. 102A chimney, see page 150. Circular felt wick, $1\frac{3}{16}$ x $1\frac{1}{2}$ inches

For repair parts, see page 249

No. 95

Suitable for small headlights. Takes No. 90 chimney, see page 149. Circular felt wick, $1\frac{3}{16}$ x $3\frac{1}{2}$ inches



No. 95

Improved Burners for Locomotive Oil Headlights

No 63

No. 63

Suitable for small headlights. Takes No 93 chimney, see page 150. Circular felt wick, $1\frac{3}{16}$ x $4\frac{1}{2}$ inches

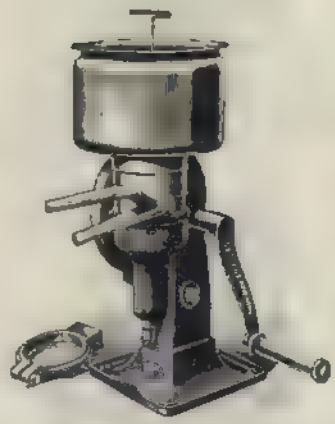
No. 94 Center Draft

Takes No. 87 chimney, see page 149
Circular wick, $\frac{1}{2}$ x 5 inches

No 94
Center Draft

CREAM SEPARATORS

CHAMPION



No. 25

Nos. 30 and 50

Nos. 70 and 85

The Champion centrifugal cream separator represents equal uniformity in the feeding of the whole milk from the supply to the disks or the thin spaces between the disks to the extent that each and every disk in the bowl does its equal and full proportion of skimming. The Champion patented perforated distributing and equalizing sleeve, (see illustration below) brings these results.

The Champion perforated distributing channels consist of a corrugated sleeve placed over the central slotted hollow feeding post, through which, as is usual, the whole milk is fed in at its upper end. The milk then descends in the hollow feeding post through the slots until it enters the distributing and equalizing perforated channels, formed by the corrugations in the sleeve; and with the centrifugal action the whole milk is forced uniformly over the surface of the inner side walls of the corrugations or channels, and through the length of the channels before it reaches the perforations through which the whole milk is introduced to the separating disks, or the thin spaces between the separating disks.

Thus it is uniformly and evenly distributed through the entire length of each channel before reaching the perforations, and the pressure and supply of the whole milk will be uniform at each perforation which insures an equal supply of milk to the spaces between each and every separating disk in the bowl which positively prevents the fault of some of the disks obtaining more milk under greater pressure than other disks, as found in other separators, which is bound to occur in a centrifugal separator where the whole milk has a direct body flow to the disks in the bowl.

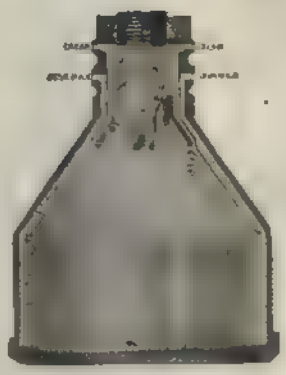
This wonderful invention revolutionizes the centrifugal cream separator in many respects:

First, with every disk skimming its equal and full proportion of milk, the separation of cream is more complete, and besides it requires less disks to skim clean our guaranteed specified rated capacities.

Second, with less disks, the size of the bowl is lower, smaller and lighter, therefore is positively lighter running.

Third, with less disks, smaller bowl, lighter weight, and with the bowl loosely connected on the upper end of the spiral shaft, practically eliminates all danger of the bowl ever getting out of balance.

Fourth, with a skimming device of simplicity, solidity, and compactness that represents when in operation practically one solid piece of metal at the same time, the most hygienic and sanitary for each and every piece can be separately washed with water and brush.



The Champion "Patented" Separator Bowl, as shown in the above transparent interior sectional illustration, represents and shows the whole milk flowing equally and uniformly through the perforated distributing channels to each and every separating disk from the top to the bottom of the bowl, illustrating as nearly as possible the action of the whole milk, entering the bowl, with the cream and skim milk leaving the bowl.

This illustration shows the Champion gearing clutch, spiral shaft and spiral gear. The gearing in its entire construction is the very highest grade of materials and highest skilled workmanship. The large gear, as well as the pinion, are cut with helical teeth, thus guaranteeing the best possible gearing that can be produced for strength, quiet running and ease of operation.

The pinion and entire clutch is made of the best grade steel case-hardened. The spiral shaft is also high-grade tool steel. The spiral wheel is the best grade of phosphor bronze, and is cut with helical teeth, insuring the longest possible life by being able to adjust.

Champion

No. 25 Bench—250 lb. capacity, (1 to 3 cows)	Each $45.00
No. 30—300 lb. capacity, (1 to 5 cows)	Each 60.00
No. 50—500 lb. capacity, (1 to 8 cows)	Each 65.00
No. 70—700 lb. capacity, (1 to 14 cows)	Each 85.00
No. 85—850 lb. capacity, (1 to 20 cows)	Each 95.00

CREAM SEPARATORS

STRAINER COVER

Made of the best IXXX charcoal tin, with concave bottoms, the only perfect bottom, allowing all cream and milk to be drawn off without disturbing the sediment. Not painted.

Star, with Covers

No. 0—Capacity 24 quarts.	Each	$3 40
No. 1—Capacity, 48 quarts.	Each	4 30
No. 2—Capacity, 88 quarts.	Each	5 50
No. 3—Capacity, 118 quarts.	Each	6 70
No. 4—Capacity, 130 quarts.	Each	7 90

One in a Case

CREAMERS

With quick removable inner vessel. Made of 26 gauge galvanized iron and IXXX charcoal tin. Water compartment heavily coated on inside with aluminum bronze and a light coating on the outside

Bostwick, Style A

No. 4A—One 4 gal. Tin Milk Vessel. Each	$6 00
No. 6A—One 6 gal. Tin Milk Vessel. Each	7 00
No. 8A—One 8 gal. Tin Milk Vessel. Each	8 00
No. 10A—One 10 gal. Tin Milk Vessel. Each	9 50

One in a Case

Made of same material as Style A. Has two tin milk vessels

Bostwick, Style B

No. 4B—Two 4 gal. Tin Milk Vessels. Each	$11 00
No. 6B—Two 6 gal. Tin Milk Vessels. Each	12 00
No. 8B—Two 8 gal. Tin Milk Vessels. Each	13 50
No. 10B—Two 10 gal. Tin Milk Vessels. Each	15 00

One in a Case

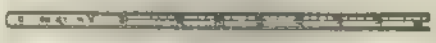
CREAM CANS

IX plain tin, heavy wire bails, black enameled wood handles, double riveted ears air-tight cover

Nos.	**11**	**13**
Quarts	14	20
Inches	8¾x13½	8¾x19¼
Per dozen	$12 00	14 60

Half Dozen in a Crate

MILK MEASURES



Made of steel and heavily tinned, graduated in quarts. For measuring milk in 40 quart New York State milk cans.

Milk Measures—40 quart . . . Per dozen, $5 00

LARD CANS

IC, pieced, straight, with riveted handles, outside cover, curled edge

Capacity, pounds	25	
Per dozen	$9 60	13 00

Half Dozen in a Crate

STEAM COOKERS

Made of the finest grade of one and two cross charcoal tinplate, with drawn seamless copper bottoms. Invaluable for canning fruit, roasting, baking, etc. Has removable divisions, which permit a dozen different kinds of food being cooked at the same time and over one burner of any kind of stove, or the partitions can all be removed and used as one large vessel

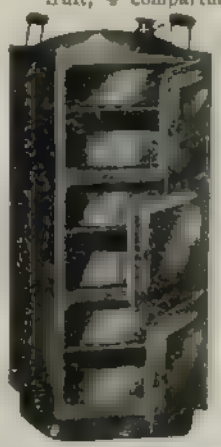
No. 9—11¾ inch square, 13½ inch high, capacity 7 gallons, one door, will hold 6 jars in canning fruit, three compartments. Will cook nicely for from two to three persons. . .Each $7.20

One in a Crate

STEAM COOKERS

No. 10—11¾ inches square, 17½ inches high, capacity 9½ gallons, one door, will hold six jars in canning fruit, has 3 compartments. Will cook for from 2 to 6 persons. . . . . Each $8.70

No. 20—11¾ inches square, 21½ inches high, capacity 11¾ gallons, two doors, will hold 16 jars in canning fruit, 4 compartments. Will cook for from 3 to 15 persons. .Each, $10.30



No. 25—11¾ inches square, 30 inches high, capacity 16½ gallons, three doors, will hold 24 jars in canning fruit, 6 compartments. Will cook for from 10 to 30 persons. Each, $13 40

14 inches square, 24 inches high, capacity 22 gallons, one double door. Will hold 18 jars in canning fruit. Four Compartments. Will cook for from 10 to 30 persons. Has no whistle. Copper extends up sides 4 in.

No. 30. . . . . Each $14 20

One in a Crate

CHILDREN'S VEHICLES

TRICYCLES

Seat and back upholstered in imitation leather, adjustable spring seat post, reversible handle. Can be used for pulling as well as steering. Frame is black enamel baked Wheels are tinned. ⅛ inch rubber tires Suitable for girls three to five years.

Standard

No. 20R—Front wheel 12 inches, rear wheels 20 inches.....Each $34 00

Three in a Crate

Same as No 20R Suitable for girls five to seven years.

No. 22R—Front wheel 14 inches, rear wheels 22 inches.....Each $44 50

Three in a Crate

Seat and back upholstered in black imitation leather and tastefully striped, enameled steel fender, adjustable spring seat post, side arms and handle nickel plated. Handle is reversible and can be used for pulling as well as steering. ⅛ inch rubber front tire and ⅝ inch rubber rear tires. Suitable for girls three to five years.

Special

No. 120—Front wheel 12 inches, rear wheels 20 inches.....Each $44 50

One in a Crate

Same as No. 120 suitable for girls five to seven years.

No. 122—Front wheel 14 inches, rear wheels 22 inches.....Each $52 00

One in a Crate

AUTOMOBILES

Made of steel throughout, except seat. Frame reinforced with steel cross members, supporting body and gears. All steel gears; standards of elliptic spring design. Rigid front axle, with forged knuckle joint. Ratchet starting crank; radiator cap. 6 in. steering wheel; nickeled hub caps. Body and hood painted red, yellow, striping. Gears and wheels black enamel, baked. Lamps and horn not included in price.

Cleveland

No. 600⅜—Body 13x30 in., wheels 10 in. with ⅜ in. rubber tires....Each $19 50

AUTOMOBILES

Made of steel throughout, except seat. Has steel bumper; ratchet starting crank; radiator cap; fenders; 6 in. iron steering wheel nickeled hub caps. Body painted Spartan Red, with black and orange striping Gears, wheels and fenders black enamel, baked.

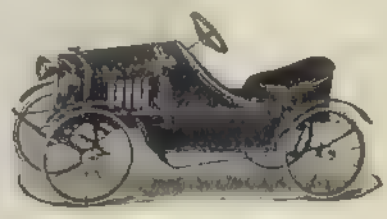
Dunleys

No. 515⅜—Body 13x30 in., wheels 12 in with ⅜ in. rubber tires....Each $26 25

All steel body and hood; seat, dash and radiator of wood. Steel bumper; ratchet starting crank; radiator cap; cowl dash; 7 in. wood rim steering wheel; fibre covered adjustable seat; nickeled hub caps. Body and hood painted red, with white and gold striping. Gears and wheels black enamel, baked

Alamo

No. 550½—Body 13x36 in., wheel 12 in. with ½ in. rubber tires....Each $37 50



All steel body and hood; seat, dash and radiator of wood. Steel bumper; fenders; 7 in. wood steering wheel, ratchet starting crank; radiator cap; upholstered seat; nickeled hub caps. Seat and cowl painted yellow, hood red, black and green striping. Gears, wheels and fenders black enamel, baked

Oakmont

No. 535½—Body 13x38 in., wheels 12 in. with ½ in. rubber tires....Each $38 60

AUTOMOBILES

Same construction as No. 535½, only has ⅝ in. rubber tires, roller bearing wheels and adjustable wind shield. Seat and cowl painted red, hood black, with yellow and white striping.

Berkshire

No. 535⅝—Body 13x38 in., wheels 12 in., roller bearing with ⅝ in rubber tires .....Each $52 50

All steel body and hood; seat, dash and radiator of wood; steel bumpers; ratchet starting crank; radiator cap; cowl dash; 7 in steering wheel, fibre-covered seat; nickeled hub caps. Body and hood painted blue, with red and white striping. Gears and wheels black enamel, baked.

Yellowstone

No. 560½—Body 14½x42 in., wheels 12 in. with ½ in. rubber tires....Each $44 25

Same construction as No. 560½, only has ⅝ in rubber tires, roller bearing wheels, and adjustable wind shield. Body and hood painted dark orange, with green and yellow striping

Berkeley

No. 570⅝—Body 14½x42 in., wheels 12 in roller bearing with ⅝ in. rubber tires . . . . . Each $52 50

All steel body and hood, seat, dash and radiator of wood; steel bumper, ratchet starting crank; nickel-trimmed radiator; radiator cap; adjustable wind shield, cowl dash, 7 in. wood rim steering wheel; upholstered seat; roller bearing wheels; nickeled hub caps; metal fenders and running board. Body and hood painted Spartan red, with black and gold striping.

Newport

No. 580¾—Body 14½x42 in., wheels 12 in., roller bearing with ¾ in rubber tires .....Each $65 00

Note—Prices on Automobiles do not include Lamps and Horn.

SIDEWALK SULKIES
STATIONARY

Handle 35 in. long, metal handle pin grip; seat 10½x14 in., back comfortably shaped from round steel. 10 in. wheels, ⅝ in. rubber tires. All metal parts black enameled; seat red enameled; handle oak, natural finish Front and rear rests to prevent tipping Metal foot rests.

No. 305. . . . . .Per dozen $27 70

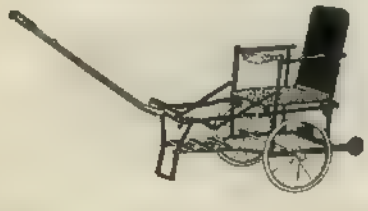
Twelfth Dozen in a Crate, Wheels Off
Tongues Packed Separately

Handle 36 in. long, with hand loop; seat 10½x14 in., with reversible back 6x12¾ in Wheels 10 in. with ½ in. rubber tires, nickeled hub caps. All metal parts black enameled, back and seat red enameled. Handle oak, natural finish. Front and rear rests to prevent tipping Metal foot rests

No. 309.....Per dozen $33.00

Twelfth Dozen in a Crate, Wheels Off
Tongues Packed Separately

SEMI-COLLAPSIBLE



Folds in one motion into space 10x20x33 in. Black frame of ⅝ in. flat steel. Seat 10x12 in., 3 ply veneer, padded and upholstered in fabricoid. Flat steel springs. Back 10¾x11¾ in. adjustable to two positions. Wheels 10 in. with ½ in. rubber tires. Nickeled hub caps and 2½ in. metal guide wheels.

No. 362.....Per dozen $56 50

Twelfth Dozen in a Crate

SIDEWALK SULKIES
FULL COLLAPSIBLE

Folds in one motion into space 8x17x31 in Frame ¾ in. flat steel; padded fabricoid seat 10x12 in., 3 ply veneer, with arm rests. Flat steel springs. Back 10¾x11¾ in., 3 ply veneer, covered fabricoid and adjustable to three positions. Steel wheels 10 in. with ½ in. rubber tires. 2½ in. metal guide wheels. Nickeled hub caps; shaped steel fenders Black finish.

No. 330.....Per dozen $87 60

Twelfth Dozen in a Crate

Folds in one motion into space 8x17x31 in Frame ¾ in. flat steel. Padded fabricoid leather seat 10x12 in., 3 ply veneer with arm rests. Flat steel springs. Back 10¾x11¾ in., 3 ply veneer, covered with fabricoid and adjustable to three positions. Adjustable 3 bow hood 20½ in. spread, covered with fabricoid Steel wheels 10 in. with ½ in. rubber tires Nickeled hub caps; shaped steel fenders; 2½ in. metal guide wheels. Black finish

No. 334.....Per dozen $109.20

Twelfth Dozen in a Crate

Folds in one motion into space 11x19½x31 in. Black frame of ¾ in. flat steel. Sides and foot well are flat reed, oak finished. Foot well is adjustable. Seat 10½x14 in. Flat steel springs. Back is reed, 12x13 in., adjustable to three positions. Seat and back padded, upholstered in brown corduroy. Steel wheels 12 in., with ⅝ in rubber tires. Nickeled hub caps and 2½ in. metal guide wheels. Has a brown fabricoid hood, 4 bows, 25 in. spread, adjustable, with oxidized locker arms.

No. 385.....Each $16 00

One in a Crate

SIDEWALK SULKIES
FULL COLLAPSIBLE

Same material and construction as No. 386 only without the hood.

No. 384.....Each $13.00

One in a Crate

TOY BARROWS

Pressed steel body, half oval steel legs with cross brace; wire wheels. Body enameled green, gold striping, handles bright yellow with black grips; legs and wheels black enameled

Nos.	Size of wheel, in.	Size of body, in.	Length of handles, in.	Per dozen
00	6	10½x 8½x4	24	$29 25
0	8	12½x10 x4¾	27	37 25
1	10	15½x11½x6	31	41 75
2	12	19½x14 x7⅛	35	47 25
3	14	22½x16 x9	38	55.75

Half Dozen in a Carton

KIDDIE KARS

Crowned hard maple wheels, basswood top, remaining parts birch. Wheels red, body of car natural with orange tone. Handsome varnish finish throughout.

Nos.	1	2	3	4
Height, in.	7	8½	10	11½
Length, in.	16	17	18	20
Per dozen	$16.00	24.00	32.00	40.00

Nos. 1, 2 and 3 Two Dozen, No. 4 One Dozen in a Crate

QUICK REPAIR TIRES

SECTIONAL VIEW OF CALCUTT'S QUICK REPAIR TIRE SHOWING COUPLING IN POSITION

Made of extra quality rubber. No machine necessary for putting tires on wheels. Simply measure off length of tire and put together with a screw coupling

"Calcutt's"

⅜ in.—Box of 50 ft. length with 30 couplings .....Per box $6.50

½ in.—Box of 50 ft. length with 30 couplings .....Per box 8.50

⅝ in.—Box of 25 ft. length with 15 couplings .....Per box 6.50

Complete Instructions in Each Box

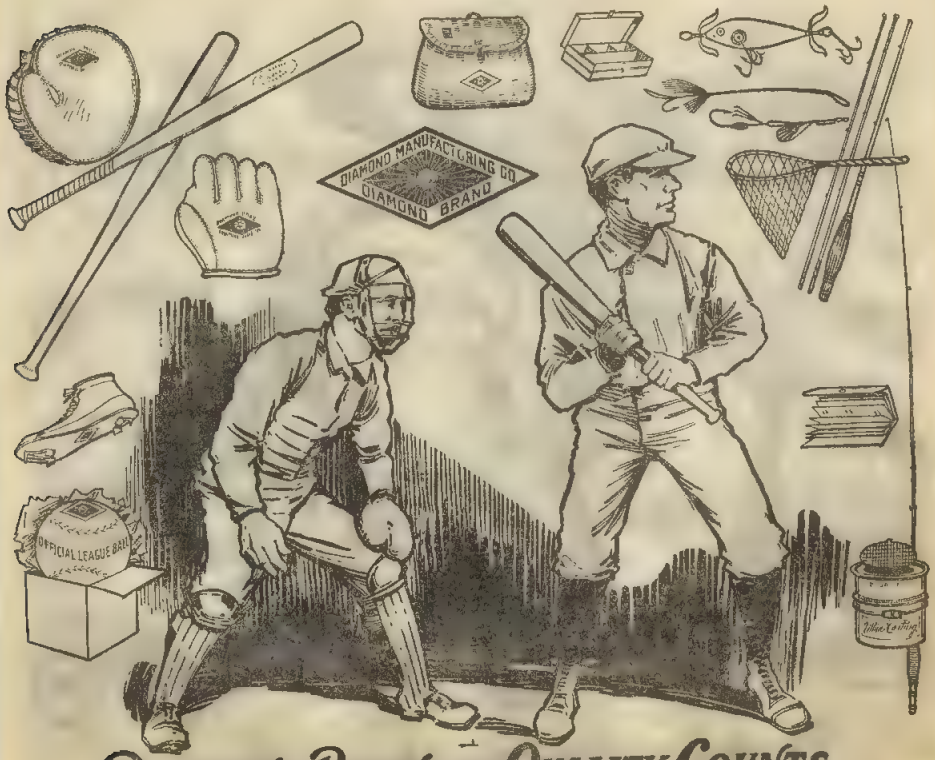
WRAPPING PAPER PRINTED FREE OF CHARGE

We show the following design to be used in Printing Wrapping Paper. The Customers Name, Card and Address is set up in prominent type. In ordering, designate by Number of Design.

DESIGN C

WRAPPING PAPER PRINTED FREE OF CHARGE

We show the following Design to be used in Printing Wrapping Paper. The Customers Name, Card and Address is set up in prominent type. In ordering designate by number of Design.



DESIGN U

Clark Center Crank Engine

With Throttling Governor

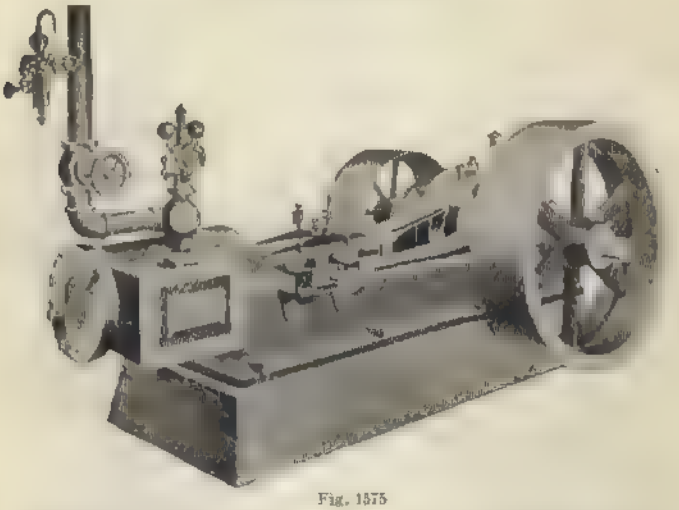


Fig. 1575

Dimensions of Center Crank Engines, Based on 80 Pounds Initial Pressure

No.	Horse Power	Cylinder: Diameter Inches	Cylinder: Stroke Inches	Cylinder: Diameter Steam Inlet Inches	Balance Wheel: Diameter Inches	Balance Wheel: Face Inches	Pulley: Diameter Inches	Pulley: Face Inches	Pipes: Steam Inches	Pipes: Exhaust Inches	Revolutions per Minute	Weight, Pounds	Weight with Sub Base, Pounds	Floor Space Over All: Length Inches	Floor Space Over All: Width Inches
CC 00	4	4	5			4½	12	4½		1	335	625	775	42	30
CC 0	5	4½	5	1¼	12	4½	12	4½		1	325	675	825	42	30
CC 1	6	5	6½		20	6	14	8½	1	1¼	250	750	975	52	36
CC 2						6	14			1¼	250	875	1100	52	36
CC 3			8	2½		6	16		1¼	1½	200	1100	1425	64	42
CC 3½			8	2½		6	16		1¼	1½	200	1200	1525	64	42
CC 4	15	7	8		20	6½	16		1½	2	200	1350	1675	64	42
CC 4½	12						18			2		75	1450	775	64	42
CC 5	15	7	10			8	20	8	1	2	175	1550	2100	8	48
CC 6	18	8	10				20		2	2½	175	1750	2350	31	48
CC 6½	20	9½	10	3½	35	6½	24	10	2½	3	165	2400	3050	31	48
CC 7	25	9½	12		40		24		2½	3	165	3200	4000	37	60
CC 8	30	10	12		40		24	12	2½	3½	165	3500	4400	37	60
CC 9	35	10	14	4½	48	12	26	12	2½	3½	165	4400	5500	115	74
CC 10	40	11	14	4½	48	13	28	14	3	4	165	4600	6100	116	74
CC 11	45	12	14	4½	48	13	28	14	3	4	165	5000	6500	116	74
CC 11½	50	13	14	4½	48	13	28	14	3	4	165	5400	6900	116	74
CC 12	55	12	16	4½	54	15	30	16	3	4	165	5700	7200	133	79
CC 12½	60	12½	16	4½	54	15	30	16	3	4	165	6400	8100	133	79
CC 13	65	13	16	5½	54	15	30	16	3½	4½	165	6700	8500	133	79
CC 13½	70	13½	16	5½	54	15	30	16	3½	4½	165	6900	8800	133	79
CC 14	75	14	16	5½	60	16	34	17	3½	4½	165	7200	9100	133	79
CC 15	80	14½	16	5½	60	16	34	17	3½	4½	165	7400	9400	133	79
CC 16	85	15	16	5½	60	16	36	17	4	5	165	7700	9700	133	79

Automatic Side Crank Engines

Trimmings—A complete set of nickel-plated glass oilers, sight-feed lubricator, throttle valve and two cylinder cocks.

This engine, like our side crank throttling governor engine, is built for heavy duty and for continuous service. It is automatically governed by an improved device within the fly wheel. The speed of the engine is regulated either by increasing or diminishing the tension of the spring or by changing the position of the weights upon the arms. The best regulation possible can be obtained and the governing of the motion is at all times reliable.

This engine has balance valve.

The valve must be well lubricated with high grade oil, and the gland at end of steam chest evenly and well packed, otherwise the wearing parts will become dry causing an uneven motion of engine.

This engine has extra heavy shafts and long bearings.

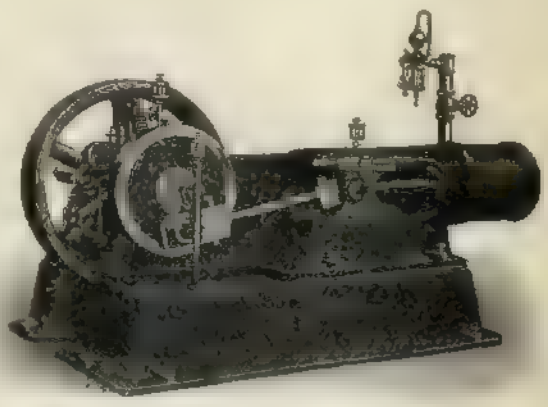


Fig. 1576

Dimensions of Automatic Side Crank Engine, Based on 80 Pounds Initial Pressure

No.	Cylinder			Balance Wheel			Pulley		Pipes		Revolutions Per Minute	Weight	Weight with Skid Bed	Floor Space Over All	
	Horse Power	Diam.	Stroke	Shaft	Diam.	Face	Diam.	Face	Steam	Exhaust				Length Inches	Width Inches
A 1	0	6	10	2	30	6	14	6	1	1	300	450	650	68	56
A 2	1	7	5	2	30	6	13	6½		1	300	500	700	68	50
A 3	2	8	6	2	30	6½	14	6½		1	275	550	750	68	50
A 4	3	10	6	2½	36	6½	14	6½	1¼	1	275	800	1200	73	55
A 5	4	12	6	2½	36	6½	14	6½	1¼	1	275	850	1250	73	55
A 6	5	13	8	2½	36	6½	18	8	1¼	1¼	265	900	1400	73	55
A 7	6	14	8	2½	36	6½	18	8	1¼	1¼	265	1000	1400	73	55
A 8	8	16	8	3	36	6½	20	8	1½	1½	265	1100	1500	86	65
A 9	9	16	10	3	36	6½	20	8	1½	1½	265	1200	1800	86	65
A 10	10	18	10	3	36	6½	20	8	1½	1½	265	1300	1900	86	65
A 11	11	18	10	3	36	6½	24	8	1½	1½	265	1400	1900	86	65
A 12	12	18	10	3	36	6½	24	8	1½	1½	265	1400	2000	86	65
A 13	13	20	12	3½	40	10	24	8	1½	1½	265	1500	2000	86	65
A 14	14	20	12	3½	40	10	24	8	1½	1½	265	1600	2100	104	79
A 15	15	20	12	3½	40	10	26	14	1½	1½	265	2500	3000	104	79
A 16	16	20	12	3½	40	10	26	14	1½	1½	265	2700	3200	104	79
A 17	17	22	12	3½	40	10	26	14	1½	1½	265	2900	3400	104	79
A 18	18	22	14	4	48	12	26	14	1½	1½	265	3000	4100	104	79
A 19	19	24	14	4	48	12	28	14	1½	1½	265	3500	4300	120	86
A 20	20	24	14	4½	48	12	30	14	1½	1½	265	3600	4700	120	86
A 21	21	24	14	4½	48	12	30	14	1½	1½	265	3700	4800	120	86
A 22	22	24	14	4½	48	12	30	14	1½	1½	265	3800	4900	120	86
A 23	23	24	14	4½	48	12	30	14	1½	1½	265	4000	5100	120	86
A 24	24	24	14	4½	48	12	30	14	1½	1½	265	4200	5300	120	86

CLAY PIGEON TRAPS

LITTLE JOKER

A Simple, Practical and efficient apparatus for throwing all Standard makes of Clay Pigeons. Targets can be thrown at any time and to any position desired. Very strongly constructed and with little care will last an indefinite period

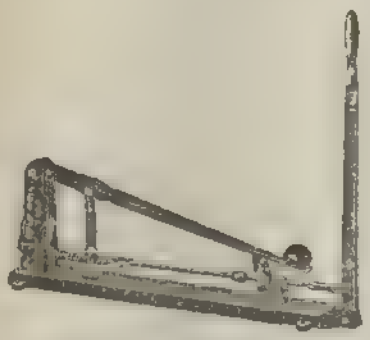
Made of Malleable Iron and Tempered Steel Springs, Wood Handle

Per Dozen

No. JHT—Size folded 11x5 inches; Weight Each 10 ozs.....$30 00

One in a Box

RIFLE BALL TRAPS



CHAMBERLIN

Each

No. 10—Cast Iron, Painted Black; Tempered Steel Springs, Adjustable to Throw Balls from 10 to 18 Feet in the Air; Weight 12 lbs.. ..... $6 00

One In a Box

CLAY PIGEONS

WHITE FLYER

For Western Automatic Traps

Gives the "Bird" that gets the "Breaks."

Every Record of importance in Trap Shooting has been Made on White Flyer Targets.

Per 1000

No. 5—For Western Automatic Trap; White Circle on Black Ground; 500 in a Barrel, Weight 125 lbs.....$11 00

BLUE ROCKS

Per 1000

No. 3—Will Operate in Any Standard Trap; 500 in a Barrel; Weight 125 lbs..... $11 00

Per Keg

No. 30—Same as No. 3, Except 30 in a Keg; Weight 7½ lbs . . $2 00

We do not Break Packages.

COMPOSITION BALLS

CHAMBERLIN

Per 1000

No. 4—Composition; for Chamberlin Rifle Ball Traps; Diameter 1⅝ inches; 1500 in a Barrel; Weight 250 lbs.. . ... $11.00

Do Not Break Barrels.

SHOOTING GALLERY TARGETS

NOTE—We Cannot Furnish Targets with Bulls' Eyes Other than those Listed Below.

PLAIN ROUND

Each

No. 50—Cast Iron; Painted Gray; Diameter 12 inches; ¾ inch Thick; for 22 Caliber Cartridges; with Steel Gong, which Rings when Bull's Eye is Struck; sizes of Bull's Eyes ½, ⅞, 1, 1¼ and 1½ inches; Weight 13½ lbs. $5 00

One in a Box

BIRD AND STAR

Each

No. 53—Cast Iron; Painted Gray; Four Birds and Two stars, which Fall Back on Hinged Iron Rod when Struck; Set by a Rope from the Shooting Stand; for 22 Caliber Cartridges; 18 inches Long; [illegible] 1¼ inches High; Width of Base 3½ inches, Weight 15 lb $5 00

One in a Box

DECOY DUCKS

NOTE—Always Specify Species Wanted When Ordering; If not Specified We Will Exercise Our Own Judgment.

SOLID WOOD

Good Quality Clear White Pine, Painted in Natural Colors.

Male and Female Mallard, Red Head, Canvas Back, Sprig Tail, Teal and Blue Bill Only.

Per Dozen

No. 1—Glass Eyes $13 50

No. 2 [illegible] .. . 12 00

Mallard, Red Head, Canvas Back and Blue Bill Only.

Per Dozen

No. 3W—Painted Eyes (Not as Good Quality as No. 2)..... $10.00

One Dozen in a Crate; Assorted Male and Female; Average Weight per Crate 31 lbs.

PREMIER MODEL—HOLLOW

Painted in Natural Colors from Life; Shape of Head, Bill, Arch of Neck, etc., Modeled from Life; Floating Body Perfectly Upright in the Quietest Water; Made in Two Sections and Connected in such a Manner as to Prevent any Leakage; Finest Enamel Eyes, Colored from Life.

Per Dozen

No. 6—Finest Quality Clear White Pine; Mallards Only..... $30 00

CHALLENGE MODEL—SOLID

Per Dozen

No. 00—Good Grade White Pine; Mallards Only.....$18 00

One Dozen in a Crate; Assorted Male and Female; Average Weight per Crate 31 lbs.

Any Other Species Can be Furnished by Shipping Direct from Factory at Same Prices. One Dozen in a Crate; Assorted Male and Female; Average Weight per Crate 42 lbs.

DECOY DUCKS

NOTE—Always Specify Species Wanted When Ordering; if not Specified we will Exercise Our Own Judgment.

Cut Shows Decoys in Use

ILLINOIS RIVER—FOLDING WOOD, PROFILE MODEL

Best White Pine; Painted in Colors on Both Sides, to Represent the Male and Female Mallard; Attached to a Wooden Float in Groups of Three; Float is in Three Pieces, Joined at One End by a Three Plate Hinge, so when Extended a Decoy Floats at Each Extremity; Float Does not Show Above Water; One Cord and Anchor Attached to Each Group; Occupy Small Space, and Can Be Set Out or Taken Up in Little Time.

Cut Shows Decoys Folded

Assorted Male and Female; Four Floats (One Dozen Decoys) in a Strong Wood Carrying Case, with Handle; Complete with Cords and Anchors.

	Per Dozen
No. FWDM—Mallard	$12 00
No. FWDC—Canada Back	12 00
No. FWDB—Blue Bill	12 00
No. FWDR—Red Head	12.00

Weight per Dozen with Carrying Case about 13 lbs.

JOHNSONS FOLDING PAPER

Lightest and Most Compact Decoy; a Dozen or More can be Stored Away in an Ordinary Hunting Coat; Waterproof, Will Not Absorb Moisture; Made to Float by Inserting a ¼ inch Waterproof Board, which Fits Inside the Body when Unfolded. Will Retain Its Upright Position in the Water by a Pendulum Weight.

Per Dozen

No. JFPD—Printed on a Heavy Grade Jute Cardboard; Very Tough Stock, Put Through a Water-Proofing Process; Weight Each 6 ozs. $5 00

Weight per Dozen 6 lbs.

DECOY GEESE

ILLINOIS RIVER-FOLDING WOOD PROFILE MODEL

Geese Decoys open ready for use.

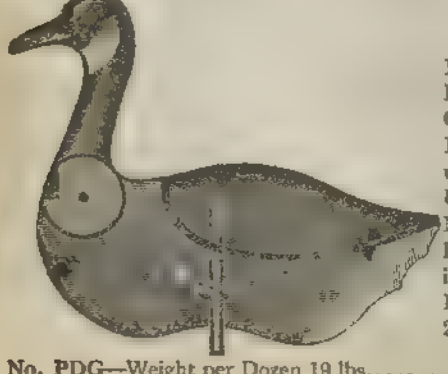
Best White Pine; Painted in Colors on Both Sides True to Life; Attached to a Wooden Float in Groups of Three; Float is in Three Pieces, Joined at One End by a Three Plate Hinge, so When Extended a Decoy Floats at Each Extremity, Float does not Show above Water; can also be Used for Field Shooting; One Cord and Anchor Attached to each Group; Occupy Small Space and can be Set out or Taken up in Little Time.

Four Floats (One Dozen Decoys in a Strong Wood Carrying Case with Handle.

Per Dozen

No. FWG—Canada Goose $20 00

Weight per Dozen, with Carrying Case 15 lbs.



STEEL PROFILE

For Field Shooting only; Made of Heavy Sheet Steel, Painted by Hand in Natural Colors; Steel Upright so Decoy can be Quickly Set up by Simply Plunging the Upright into the Ground; Neck and Upright Made to Fold into the Body; 24 inches High Over All when Extended; Size Folded 9½x20 inches.

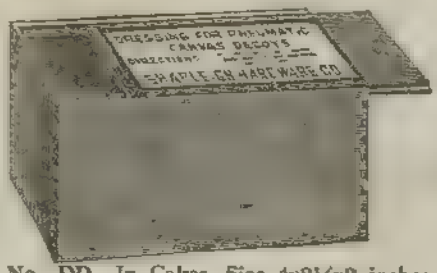
Per Dozen

No. PDG—Weight per Dozen 19 lbs. $17.00

One Dozen in a Box

DRESSING

For Pneumatic Canvas Decoys



To Use, Put Cake into One Quart of Raw Linseed Oil, Heat Until Fully Dissolved (Mix Well), and When Cool Enough to Use, Pour Half Teacup of same through Valve into Decoy, Holding Finger Over Valve; Shake Decoy Until Liquid Flows All Over Inner Surface. Pour out Surplus.

Per Dozen

No. DD—In Cakes. Size 4x2¼x2 inches; Weight per Dozen 8 lbs. $13.00

Twelfth Dozen Cakes in a Wood Box

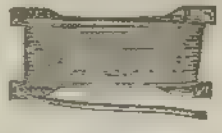
DECOY SNAPS

Per Gross

No. 23½—Nickel Plated Malleable Iron; with ⅛ inch Swivel Roller; Length Over All 2½ inches; Especially Designed for Weighting Decoys; Weight per Dozen ¾ lb. $9 50

Twelfth Dozen in a Wood Box

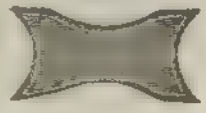
DECOY ANCHORS



Per Dozen

No. 1—Pure Lead; 6 foot Cotton Cord; Can be Adjusted to any Desired Length; Weight per Dozen 6 lbs. $0.90

One Dozen in a Package



Per Dozen

No. 3—Iron, Japanned, Will Hold Live and Wood Decoys; can also be Used for Winding Anchor Cord; Weight per Dozen 15 lbs $2 00

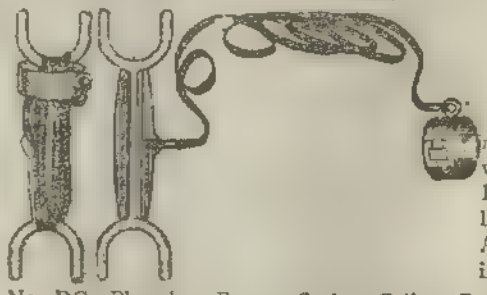
One Dozen in a Package

Made Especially for Use on Wood Decoys, but Can be Used on Any other Style; Constructed so that it can be Hung over Neck of Decoy when not in use.

Per Dozen

No. IX—Extra Heavy Malleable Iron; Aluminum Finish; with Eye for Cord, Size 5¾x3 inches; Cord not Furnished; Weight per Dozen 6 lbs. $2 20

Loose



HAPPE

Collar Anchors for Live Duck Decoys

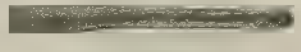
This is the Most Humane Anchor ever Devised for Holding Live Decoy Ducks. The Collar is Quickly and Easily Applied and is Non-Chafing.

Per Dozen

No. DC—Phosphor Bronze Spring Collar, Braided Flat Linen Cord 6 feet Long with Brass Box Swivel to Prevent Twisting; New Style Anti-Fouling Lead Anchor which also Serves as a Cord Winder; Cord can be Adjusted on Anchor to Suit Depth of Water. Weight per Dozen 6 lbs. $10 80

Twelfth Dozen in a Box

BALANCE WEIGHTS



FOR WOOD DECOYS

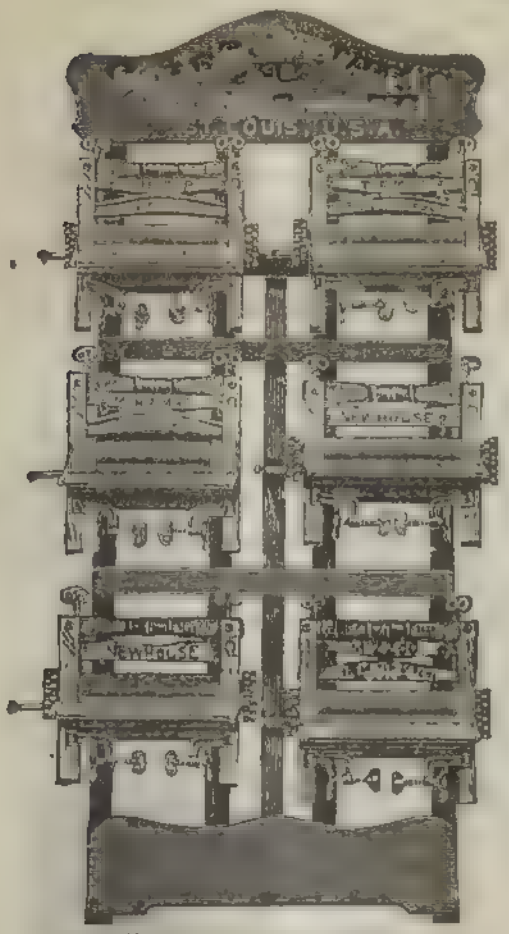
Per Dozen

No. DW—Cast Iron; Have Eyelets for Anchor Cord, and Two Nail Holes for Fastening Weights to the Decoy; Will Balance the Decoy so it will Set Upright in the Water; Weight per Dozen 18 lbs. $1.40

Loose

CLOTHES WRINGER ASSORTMENTS
WITH DISPLAY RACKS

Stands are Strongly Made of Hardwood with Easel Back; Finished in Bright Colors and Gold Lettering with Brass Hooks for Hanging Wringers.



6-Piece Wringer Assortment with Rack No. B

SIX PIECE WRINGER ASSORTMENTS
With Rack No. B

Height of Rack 5 feet; Occupies 20x28 inches Floor Space

Per Assortment

No. 6J—Consists of Rack No. B and **6** Wringers as Specified Below; Weight Complete 210 lbs. **$43.70**

Contains the Following Wringers:

1 No. U350 Universal	1 No. E350 Empire	1 No. R100 Rival
1 No. N300 Novelty	1 No. K310E Keystone	1 No. R101 Rival

Per Assortment

No. 6K—Consists of Rack No. B and **6** Wringers as Specified Below; Weight Complete 210 lbs. **$45 50**

Contains the Following Wringers:

1 No. N167 Newhouse	1 No. M63 Merrimac	1 No. T50 Tip Top
1 No. N168 Newhouse	1 No. M73 Merrimac	1 No. T51 Tip Top

Per Assortment

No. 6L—Consists of Rack No. B and **6** Wringers as Specified Below; Weight Complete 210 lbs. **$47.70**

Contains the Following Wringers:

1 No. R500 Royal	1 No. U351 Universal	1 No. R190 Rival
1 No. C1050 Chemical	1 No. N300E Novelty	1 No. R191 Rival

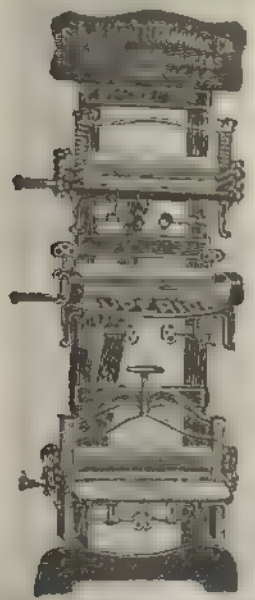
Per Assortment

No. 6M—Consists of Rack No. B and **6** Wringers as Specified Below; Weight Complete 210 lbs. **$47.00**

Contains the Following Wringers:

1 No. R501 Royal	1 No. N391 Novelty	1 No. R100 Rival
1 No. U351 Universal	1 No. K311 Keystone	1 No. R101 Rival

Stand Crated; Wringers Cased



3-Piece Wringer Assortment with Rack No. C.

THREE PIECE WRINGER ASSORTMENTS
With Rack No. A

Height of Rack 5 feet; Occupies 16x24 inches Floor Space

Per Assortment

***No. 3A**—Consists of Rack No. A and One Each Wringer No. M63 Merrimac, No. T50 Tip Top and No. M110 Mizzoo; Weight Complete 95 lbs. **$20 50**

No. 3B—Consists of Rack No. A and One Each Wringer No. R501 Royal, No. U381 Universal and No. R101 Rival; Weight Complete 95 lbs. **25 20**

***No. 3C**—Consists of Rack No. A and One Each Wringer No. N168 Newhouse, No. T51 Tip Top and M11 Mizzoo; Weight Complete 95 lbs. **22.50**

THREE PIECE IRON WRINGER ASSORTMENTS
With Rack No. C

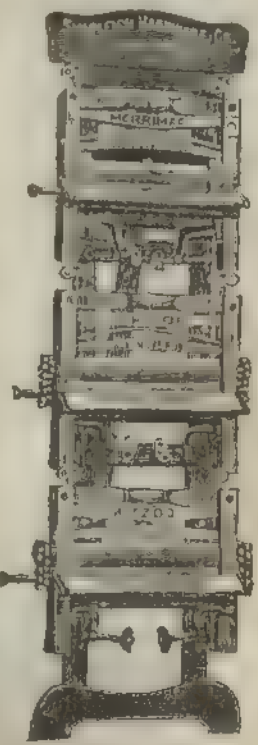
Height 3½ feet; Occupies 16x19 inches Floor Space

Per Assortment

No. 3D—Consists of Rack No. C and One Each Wringer No. S210 Superior, No. R550 Relief and No. ID140 Ideal; Weight 100 lbs. **$20.50**

No. 3E—Consists of Rack No. C and One Each Wringer No. C130 Crescent, No. D100 Daisy and No. M10 Marvel; Weight 100 lbs. **17.40**

Stand Crated, Wringers Cased



3-Piece Wringer Assortment with Rack No. A

CLOTHES WRINGER ASSORTMENTS

WITH DISPLAY STANDS

Stands are Strongly Made of Hardwood, Finished in Bright Colors and Gold Lettering; with Strong Cast Iron Bases Attractively Decorated in Bright Colors and Mounted on Ball Bearing Casters. Brass Hooks for Hanging Wringers.

12 Piece Wringer Assortment with Rack No. 17

TWELVE PIECE WRINGER ASSORTMENTS

Especially Adapted for Large Stores or Display Rooms. Height of Stand 6 feet; Occupies 41x20 inch Floor Space.

Per Assortment

No. 12A—Consists of Rack No. 17 and **12 Wringers** as Specified Below; Weight Complete 320 lbs **$95.50**

Contains the Following Wringers:

1 No. R501 —Royal	1 No. U350—Universal	1 No. K310—Keystone
1 No. R591—Royal	1 No. U351—Universal	1 No. R101—Rival
1 No. K500E—Royal	1 No. N301—Novelty	1 No. R191—Rival
1 No. R501 —Royal	1 No. N300—Novelty	1 No. F10—Falcon

Per Assortment

★**No. 12B** Consists of Rack No. 17 and **12 Wringers** as Specified Below; Weight Complete 320 lbs **$90 00**

Contains the Following Wringers:

1 No. N 67 Newhouse	1 No. T 50—Tip Top	1 No. M 63—Merrimac
1 No. N 68—Newhouse	1 No. T 51 —Tip Top	1 No. M 73—Merrimac
1 No. N 77 Newhouse	1 No. T180—Tip Top	1 No. M110—Mizzoo
1 No. N178—Newhouse	1 No. T181—Tip Top	1 No. M111 Mizzoo

Per Assortment

No. 12C Consists of Rack No. 17 and **12 Wringers** as Specified Below; Weight Complete 320 lbs **$87.30**

Contains the Following Wringers:

1 No. E350—Empire	1 No. R100 —Rival	1 No. R191—Rival
1 No. U350—Universal	1 No. R101 —Rival	1 No. R198 Rival
1 No. K310—Keystone	1 No. N300E—Novelty	1 No. F 10 Falcon
1 No. N300—Novelty	1 No. R100 —Rival	1 No. F 11—Falcon

Stand Crated; Wringer Cased

SIX PIECE WRINGER ASSORTMENTS

Height of Stand 6 feet; Occupies 20x20 inch Floor Space; Mounted on Casters

Per Assortment

★**No. 6A** Consists of Rack No. 14 and **6 Wringers** as Specified Below; Weight Complete 160 lbs **$46 00**

Contains the Following Wringers:

1 No. N167 Newhouse	1 No. M63—Merrimac	1 No. T50 Tip Top
1 No. N177 Newhouse	1 No. M73 Merrimac	1 No. T51 Tip Top

Per Assortment

No. 6B—Consists of Rack No. 14 and **6 Wringers** as Specified Below; Weight Complete 160 lbs **$42 70**

Contains the Following Wringers:

1 No. U350—Universal	1 No. N301—Novelty	1 No. R100—Rival
1 No. E350—Empire	1 No. K311—Keystone	1 No. F10—Falcon

Per Assortment

★**No. 6C**—Consists of Rack No. 14 and **6 Wringers** as Specified Below; Weight Complete 160 lbs. **$41 00**

Contains the Following Wringers:

1 No. M63—Merrimac	1 No. T51 —Tip Top	1 No. M110 Mizzoo
1 No. T50—Tip Top	1 No. T180—Tip Top	1 No. M111 —Mizzoo

Per Assortment

No. 6D—Consists of Rack No. 14 and **6 Wringers** as Specified Below; Weight Complete 160 lbs **$40 00**

Contains the Following Wringers:

1 No. R501—Royal	1 No. U351—Universal	1 No. R101—Rival
1 No. R591—Royal	1 No. U381—Universal	1 No. R191—Rival

Stand Crated; Wringers Cased

6 Piece Wringer Assortment with Rack No. 14

Wrenches

Coes Genuine Wrenches

Knife Handle and Steel Handle

Fig. 657
Knife Handle

Fig. 658
Steel Handle

Knife and Steel Handle Styles

6-inch	per dozen $10 00	15-inch	per dozen $24 00
8-inch	per dozen 12 00	18-inch	per dozen 32 00
10-inch	per dozen 14 00	21-inch	per dozen 39 00
12-inch	per dozen 18 00		

The Lamson Engineers' Wrench

Iron or Wood Knife Handle

Fig. 659

List Price Per Dozen—In Effect April 5, 1916

Size Inches	6	8	10	12	15	18	21
Price	$10 00	$12 00	$14 00	$18 00	$24 00	$32 00	$39 00

Length Inches	Opening Inches	No. in Pkg. Per Dozen	No. in Case Per Dozen	Weight of Cases in Pounds Net	Weight of Cases in Pounds Gross	Measurement of Cases Cubic Inches	Length
6	1 1/8	1/2	6	58	63	16 1/4 x 8 3/4 x 7 1/4	6
8	1 3/8	1/2	6	84	92	17 x 9 3/4 x 8 3/4	8
10	1 3/4	1/2	6	158	175	20 x 11 3/4 x 9 1/4	10
12	2 1/4	1/2	6	222	240	21 1/2 x 13 1/2 x 10	12
15	2 11/16	1/3	3	166	187	18 1/2 x 16 1/2 x 8	15
18	3 1/8	1/3	2	176	192	22 1/4 x 14 x 9	18
21	4 1/4	1/3	1	101	112	23 1/4 x 7 1/2 x 8 3/4	21

Wrenches

"Trimo" Monkey Wrench

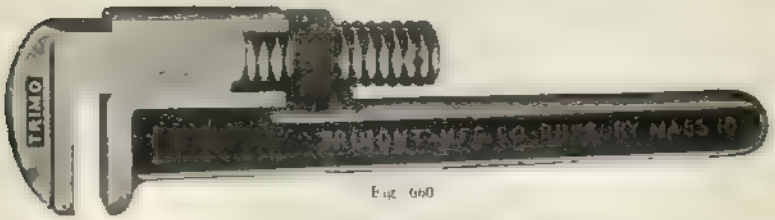


Fig. 660

All Drop-Forged Steel Case-Hardened
Guaranteed the Strongest Monkey Wrench Made
Price List

Size, Inches		8	10	12	15	18
Price	per dozen	$10 00	$12 00	$14 00	$24 00	$30 00

Other sizes to follow

A new feature in monkey wrenches. The leverage is increased in proportion to the size of the nut as the jaw is extended forward to adjust. The larger the nut, the longer the leverage

"Westcott" Adjustable "S" Wrench

Fig. 661

6-inch, opens to ¾ inch	per dozen	$ 8 00
8-inch, opens to 1 inch	per dozen	10 00
10-inch, opens to 1⅜ inches	per dozen	12 00
12-inch, opens to 1⅝ inches	per dozen	15 00
14-inch, opens to 2 inches	per dozen	21 00

Discount

"Ever Ready" Wrench

Fig. 662

Forged and tempered in oil, nick-plated or black

		Price List	Nickeled	Black
No. 1	4-in., holds ¼ to ¾-in. sq. or round iron, per doz.		$ 5 00	$ 4 50
No. 2	7-in., holds ¼ to 1¼ in. sq. or round iron, per doz.		6 75	6 25
No. 2½	9½-in., holds ¼ to 1¾ in. sq. or round iron, per doz.		10 50	10 00
No. 3	11½-in., holds ¼ to 2⅛ in. sq. or round iron, per doz.		16 00	15 25

GASOLINE GAS LAMPS

✣COLEMAN AIR-O-LITE

The Light that comes from common gasoline. No smoke, no smell, no dirty chimney, no greasy wicks. Fill them once a week; clean them once a year.

They give a very Bright White Light, no Danger if upset, so Constructed that they cannot explode. Simple and easy to operate, no delicate parts to get out of order.

READING LAMP

Brass, Heavily Nickel Plated; Fitted with a Special Size Holder that accommodates most [illegible] with 10 inch Opal Ribbed Shade; Capacity [illegible] Pints; Burns 16 to 18 hours; quick Removeable Filler Cap; Automatic Cleaner with Gas Tip; Universal Shade Holder; Equipped with Pump, Torch, Wrench, Hanger, Extra Strainer, Extra Wick and Tools for inserting.

Each

No. M307—Weight 10 Lbs. $12.00

One in a Carton

READING LAMP

Brass, Heavily Nickel Plated; With Fancy Extra [illegible] Mellotone Opal Shade; Capacity 3 Pints; Burns 16 to 18 hours; Automatic Filler and Cleaner Plug; Universal Shade Holder; Equipped with Pump, Torch, Wrench, Hanger, Extra Strainer, Extra Wick and Tools for Inserting.

Each

No. M322—Weight 10 Lbs..... $13.00

One in a Carton

CHANDELIER

Designed for Lighting Stores, Churches, Schoolhouse, Home [illegible] It is Composed of two separate Air-O-Lite Burners, Either One or Both of which can be lighted as desired.

Each

✣No. P307—Fount made of 18 Gauge Brass Heavily Nickeled; Capacity 6 Pts.; Supplies both Burners 16 to 18 hours; Opal Ribbed Shades; Equipped with Pump, Torch, Wrench, Hanger, Extra Wick and Instructions; Weight 16 Lbs. $21.50

One in a Carton

KEROSENE GAS LAMPS

COLEMAN KER-O-LITE

Ker-O-Lite is a pressure lamp making its gas from kerosene instead of gasoline. It operates on the same principle as the Air-O-Lite, uses two small rag mantles and gives just as bright a light. It requires more frequent cleaning because kerosene is a heavier oil, but to make this easy the Ker-O-Lite is constructed with a quick detachable generator.

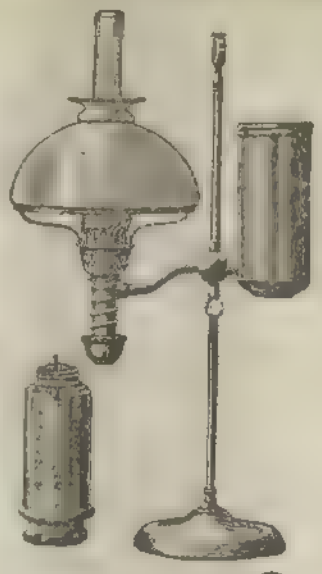
Equipment furnished with each lamp—2 Mantles, Lighter, Pump, Wrench, Hanger, Extra Generator and Set of Cleaning Tools for removing old and inserting new filter.

Each

✣No. K307—10 inch Ribbed Opal Shade; 8 in. Nickel Plated Brass Fount; Fount Capacity 4 Pints; Height 22 in.; Produces a light equal to 300 Candles; Shipping Weight 10 Lbs..... $11.00

One in a Carton

STUDENT OR READING LAMPS



REGULAR

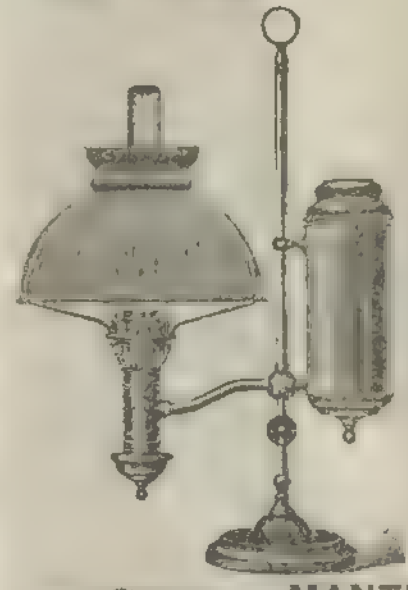
Brass Stand and Tubing, Brass Fount and Fount Receptacle, Nickel-Plated and Highly Polished; with Shut-Off Oil Valve; Capacity One Pint (Cut Shows Reservoir Removed from Receptacle and in Position for Filling); Dome, 7 inches in Diameter; Height of Center Rod, 20½ inches; Diameter of Base, 6 inches; Student Chimney, No. 1G; Wick Regulated by Turning the Burner; No. 1 Perfection Circular Wick; Weight, Each, 6¼ lbs.

Each

No. M1½—With 7 inch White Dome..... $8 00

No. MG1½ With 7 inch Green Dome..... 9.00

Loose.



MAMMOTH

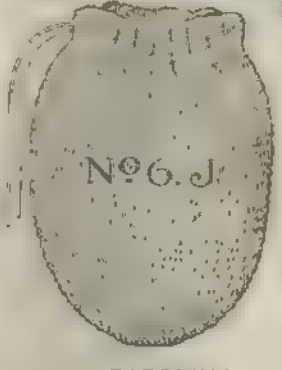
Brass Stand and Tubing, Brass Fount and Fount Receptacle, Nickel-Plated and Highly Polished with Shut-off Oil Valve Capacity One Quart; Dome, 10 inches in Diameter; Height of Center Rod, 23½ inches; Diameter of Base, 6½ inches Student Chimney No. 21G; Wick Regulated by Turning Burner; No. 21 Perfection Circular Wick; Weight, Each, 7½ lbs.

Each

No. M21—With 10 inch White Dome $16 50

No. MG21—With 10 inch Green Dome. 17 00

Loose.



MANTELS

GASOLINE RAG MANTELS

JUNIOR

For Gasoline and Kerosene Lamps, See Our Numbers—M307 -M322—P307 and K307.

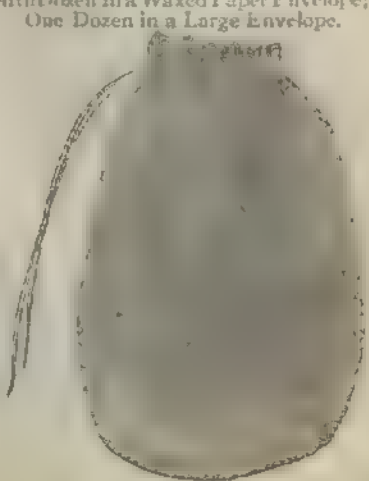
Per 100

No. 6J—Weight per 100, about 2 lbs $15.00

Per Dozen

No. 6J—Weight per Dozen, about 2 ozs $1.50

Twelfth Dozen in a Waxed Paper Envelope; One Dozen in a Large Envelope.



GASOLINE

FOR GASOLINE LAMPS ONLY

Per 100

No. 6—Weight per 100, 1¾ lbs..... $13 00

Per Dozen

No. 6—Weight per Dozen, 3 ozs..... $2.50

Twelfth Dozen in Waxed Paper Envelope; One Dozen in Large Envelope.

Items Marked ✣ Not Carried in Stock; Can Only be Furnished By Shipping Direct from Factory, Wichita, Kans.

LAMPS

HAND AND BRACKET

DAISY

Handled Glass Fount, with Outside Filler; No. 2 Sun Burner; 7-inch Silvered Glass Reflector; Bronzed Iron Bracket with Machine Cut Threads.

Per Dozen

No. 2DC—Complete with Chimney, Wick and Reflector; Wt. Per Doz., 50 lbs. **$20.00**
Half Dozen in a Box.

No. 2DC1—Same as No. 2DC Except Packed One Complete in a Carton . . . **$21.50**

No. 2D —Complete **Except** Chimney; Weight Per Dozen, 47 lbs. **19.00**

No. 2DF Founts Only; Weight Per Dozen, 25 lbs **4.50**
Loose

No. 2DB—Brackets Only; Weight Per Dozen, 10 lbs **6.00**
Half Dozen in a Box.

★MIZZOO

Glass Fount with Outside Filler; No. 2 Sun Burner; 7-inch Silvered Glass Reflector; Bronzed Iron Bracket.

Per Dozen

No. 1MC—Complete with Chimney, Wick and Reflector; Wt. Per Doz., 34 lbs **$16.50**

No. 1M —Complete **Except** Chimney; Weight Per Dozen, 30 lbs **11.00**

No. 1MF—Founts Only; Weight Per Dozen, 26 lbs **4.00**
Loose

No. 1MB—Brackets Only; Weight Per Dozen, 9¾ lbs. **2.50**
One Dozen in a Box.

★ SUNRISE

Glass Fount with Outside Filler; No. 2 Brass Burner with Steel Chimney Guard; 7-inch Silvered Glass Reflector; No. 2 Sun Chimney, Crimp Top, Flint Glass; Wrought Steel Bracket, Black Enameled.

Per Dozen

No. 4SC—Complete with Chimney, Wick and Reflector; Wt. Per Doz., 35 lbs. **$18.50**

No. 4S —Complete **Except** Chimney; Weight Per Dozen, 30 lbs. **17.50**
Loose.

No. 4SF—Founts Only; Weight Per Dozen, 20 lbs. **4.00**
Loose

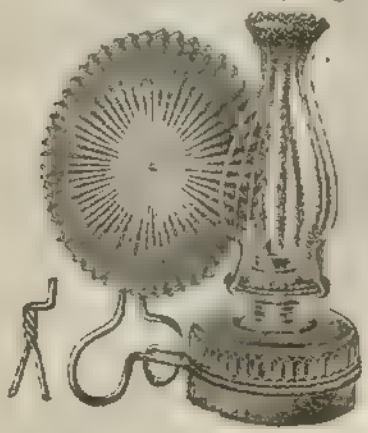
No. 4SB—Brackets Only; Weight Per Dozen, 15 lbs **6.00**
Half Dozen in a Box.

SILVERED REFLECTORS FOR BRACKET LAMPS

Per Dozen

No. 7DR—7-inch Reflectors, Weight Per Dozen, 4 Pounds **$7.00**
No. 9DR—9-inch Reflectors, Weight Per Dozen, 10 Pounds **8.50**

Loose



JAXON

Glass Fount, **Without Filler;** No. 2 Sun Burner; 7-inch Corrugated Polished Tin Reflector; **Bright Steel Wire** Frame.

Per Dozen

No. 3JC—Complete with Chimney, Wick and Reflector; Weight Per Doz., 19 Pounds **$8.50**

No. 3J—Complete **Except** Chimney; Weight Per Dozen, 15 Pounds . . . **7.50**

No. 3JF—Founts Only; Weight Per Dozen, 10 Pounds **2.50**
Loose

Per Dozen

No. 3JB Brackets and Reflectors Only; Weight per dozen 3¾ Pounds **$3.00**
One Dozen in a Package.

★ DEFIANCE

Glass Fount, **Without Filler;** No. 2 Sun Burner; 6½-inch Corrugated Tin Reflector; Steel Frame.

Per Dozen

No. 11DC—Complete as Shown; Weight Per Dozen, 18 Pounds **$8.00**

No. 11D—Complete, **Except** Chimney; Weight Per Dozen, 14 Pounds. . **7.00**

No. 11DF—Founts Only; Weight Per Dozen, 9 Pounds **2.20**

No. 11DR—Frames and Reflectors Only; Weight Per Dozen, 4 Pounds. **2.50**
Loose

★ KNOXALL

Glass Fount **with Outside Filler;** No. 2 Sun Burner; 6½ inch Corrugated Tin Reflector; Steel Frame.

Per Dozen

No. 7KC—Complete with Chimney, Wick and Reflector; Weight Per Dozen, 20 Pounds. **$8.50**

No. 7K—Complete **Except** Chimneys; Weight Per Dozen, 16 Pounds **7.50**

No. 7KF—Founts Only; Weight Per Dozen, 9 Pounds **3.00**

No. 7KR—Frames and Reflectors Only; Weight per dozen 6 Pounds **1.80**
Loose.

PLANTERS HAND LAMP

Brass Fount Hand Lamp, for Coal Oil, Complete with Wick; Capacity, 5½ Fluid Ounces.

Per Dozen

No. 2R—For **Round Wick,** Ratchet Burner; Weight Per Dozen, 1¾ Pounds. . . . **$3.60**

No. 2F—For **Flat Wick,** Ratchet Burner; Weight Per Dozen, 1¾ Pounds. . . . **3.60**
Loose

No Additional Charge for Packing

EQUIPPED WITH THE POSITIVE LOCK.

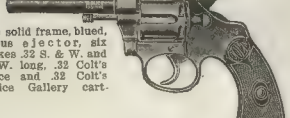
POCKET POSITIVE.

Jointless solid frame, simultaneous ejection.
Equipped with Colt positive lock, an absolute preventative of accidental discharge. Full blued finish with rubber stocks, 6 shots. Takes .32 S. & W. short and long and .32 Colt Police Positive, Full and Gallery loads.

Each

No. PP2½—.32 caliber; 2½ inch barrel; entire length, 6½ inches; weight, 16 ounces.....**$50.20**
No. PP3½—.32 caliber; 3½ inch barrel; entire length, 7½ inches; weight, 18 ounces..... 50.20

POLICE POSITIVE.



Jointless solid frame, blued, simultaneous ejector, six shots. Takes .32 S. & W. and .32 S. & W. long, .32 Colt's New Police and .32 Colt's New Police Gallery cartridges.

Each

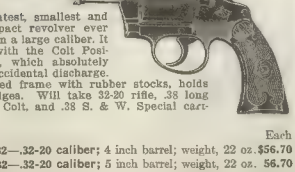
No. P432—.32 caliber; 4 inch barrel; weight, 19 ounces...**$54.50**
No. P632—.32 caliber; 6 inch barrel; weight, 21 ounces... 54.50

Solid frame, blued; swing out cylinder; positive lock; six shots. Takes .38 Colts Police Positive and .38 S. & W. cartridges.

Each

No. P438—.38 caliber; 4 inch barrel; entire length, 8¼ inches; weight, 20 ounces.....**$54.50**
No. P638—.38 caliber; 6 inch barrel; entire length, 10¼ inches; weight, 21½ ounces..... 54.50

POLICE POSITIVE SPECIAL.



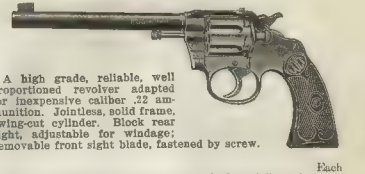
The lightest, smallest and most compact revolver ever produced in a large caliber. It is fitted with the Colt Positive Lock, which absolutely prevents accidental discharge.
Full blued frame with rubber stocks, holds six cartridges. Will take 32-20 rifle, .38 long and short Colt, and .38 S. & W. Special cartridges.

Each

No. CPS432—.32-20 caliber; 4 inch barrel; weight, 22 oz..**$56.70**
No. CPS532—.32-20 caliber; 5 inch barrel; weight, 22 oz. **56.70**
No. CPS632—.32-20 caliber; 6 inch barrel; weight, 24 oz. **56.70**
No. CPS438—.38 caliber; 4 inch barrel; weight, 22 oz.... **56.70**
No. CPS538—.38 caliber; 5 inch barrel; weight, 22 oz.... **56.70**
No. CPS638—.38 caliber; 6 inch barrel; weight, 22 oz.... **56.70**

NOTE —For Extra Handles see page 4720.

POLICE TARGET.

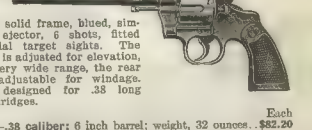


A high grade, reliable, well proportioned revolver adapted for inexpensive caliber .22 ammunition. Jointless, solid frame, swing-out cylinder. Block rear sight, adjustable for windage; removable front sight blade, fastened by screw.

Each

No. PT22—.22 W. R. F. only as per cut; six shots; full blued; rubber stocks; 6 inch barrel; length over all, 10½ inches; weight each, 22 ounces.....**$58.80**
No. PT22S—Chambered for .22 short and long rim fire cartridges; otherwise same as PT22..... 58.80
No. PT32—.32 long Colt; (using both .32 short Colt and 32 long Colt cartridges, when barrel is stamped. 32 Colt etg.) six shots; full blued; rubber stocks; 6 inch barrel; length over all, 10½ inches; block rear sight adjustable for windage; removable front sight blade, fastened by screw; weight each, 19 ounces..... 58.80

NEW TARGET OFFICERS' MODEL.

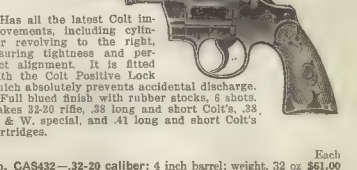


Jointless solid frame, blued, simultaneous ejector, 6 shots, fitted with special target sights. The front sight is adjusted for elevation, giving a very wide range, the rear sight is adjustable for windage. Specially designed for .38 long Colt's cartridges.

Each

No. 38T6—.38 caliber; 6 inch barrel; weight, 32 ounces..**$82.20**
No. 38T7½—.38 caliber; 7½ inch barrel; weight, 35 ounces; otherwise same as No. 38T6..... 82.20

ARMY SPECIAL.



Has all the latest Colt improvements, including cylinder revolving to the right, insuring tightness and perfect alignment. It is fitted with the Colt Positive Lock which absolutely prevents accidental discharge.
Full blued finish with rubber stocks, 6 shots. Takes 32-20 rifle, .38 long and short Colt's, .38 S. & W. special, and .41 long and short Colt's cartridges.

Each

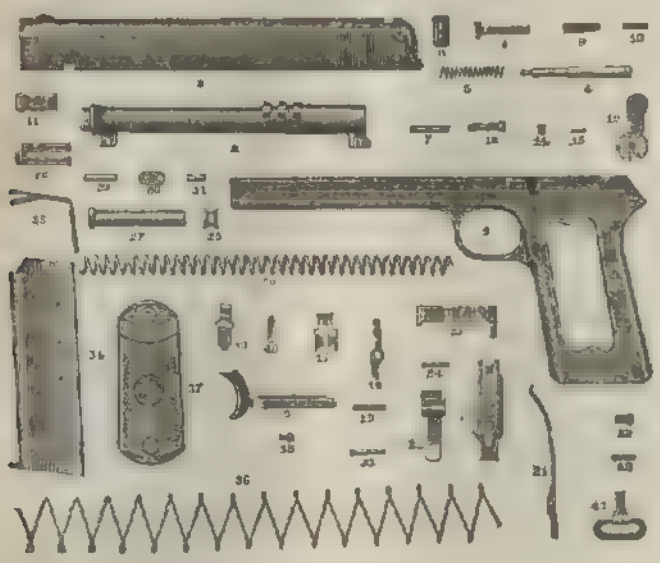
No. CAS432—.32-20 caliber; 4 inch barrel; weight, 32 oz **$61.00**
No. CAS532—.32-20 caliber; 5 inch barrel; weight, 33 oz. **61.00**
No. CAS632 .32-20 caliber; 6 inch barrel; weight, 34 oz. **61.00**
No. CAS438—.38 caliber; 4 inch barrel; weight, 32 oz . **61.00**
No. CAS538—.38 caliber; 5 inch barrel; weight, 33 oz ... **61.00**
No. CAS638—.38 caliber; 6 inch barrel; weight, 34 oz.... **61.00**
No. CAS441 .41 caliber; 4 inch barrel; weight, 32 oz. . **61.00**
No. CAS541—.41 caliber; 5 inch barrel; weight, 33 oz.... **61.00**
No. CAS641—.41 caliber; 6 inch barrel; weight, 34 oz.... **61.00**

COMPONENT PARTS OF COLT AUTOMATIC PISTOLS

NOTE.—When Ordering Always Give Name of Model, Caliber and Number of Arm; also Give Number and Name of Part Desired as Illustrated in the Following.

AUTOMATIC "ALL MODELS" IN 38 CALIBER

NOTE.—In ordering, give Number of Pistol, as improvements have been made since first issue, e. g., the original Pistol had a Combination Rear Sight and Safety Lock, a different Pin, etc.

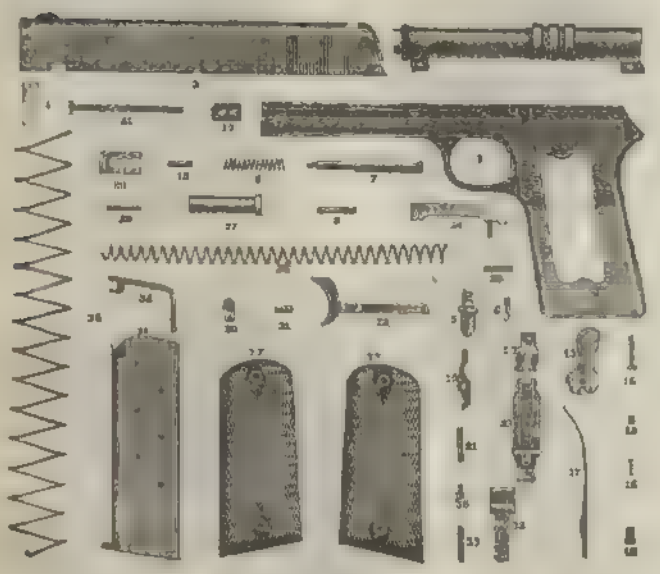


Nos.		Each
1	Receiver	$21 60
2	Barrel	5.40
3	Slide	6.30
4	Firing Pin	.85
5	Firing Pin Spring	.10
6	Rear Sight	.40
7	Firing Pin Lock Pin	.10
8	Shell Extractor	.40
9	Shell Extractor Spring	10
10	Shell Extractor Pin	10
11	Slide Lock	.40
12	Hammer	.85
13	Hammer Screw	.10
14	Hammer Roll	.10
15	Hammer Roll Pin	.10
16	Trigger	1.70
17	Sear	.85
18	Safety	.85
19	Sear and Safety Pin	.10
20	Sear, Safety and Trigger Spring	.50
21	Main Spring	.50
22	Main Spring Screw	.10
23	Ejector	.75

Nos.		Each
24	Ejector Pin	$0.10
25	Recoil Plug	.30
26	Retractor Spring	.30
27	Follower	.50
28	Plug (Take Down)	.50
29	Plug and Link Pin	.10
30	Links (2), each	.20
31	Link Pin, Short	.10
32	Magazine Catch	.50
33	Magazine Catch Pin	10
34	Magazine Complete	1.60
35	Magazine Follower	.10
36	Magazine Spring	.65
37	Stocks (per Pair)	1 40
38	Stock Screws (4), each	.10
39	Slide Stop	1.40
40	Slide Stop Spring	.20
41	Swivel	.30
42	Swivel Pin	.10
	Escutcheons, per Set (4)	.30
	Front Sight	.30
	Firing Pin Lock Stop	.10
	Firing Pin Lock Stop Spring	.10

Loose

AUTOMATIC 45 CALIBER



Nos.		Each
1	Receiver	$21 60
2	Barrel	7.20
3	Slide	7.20
4	Slide Lock	.40
5	Slide Stop	1.60
6	Slide Stop Spring	.20
7	Firing Pin	.85
8	Firing Pin Spring	.10
9	Firing Pin Lock Pin	10
10	Rear Sight	.40
11	Shell Extractor	.50
12	Shell Extractor Pin	.10
13	Hammer	.85
14	Hammer Screw	.10
15	Hammer Roll	.10
16	Hammer Roll Pin	.10
17	Main Spring	.50
18	Main Spring Screw	.10
19	Safety	.65
20	Sear	.85
21	Sear and Safety Pin	.10

Nos.		Each
22	Sear, Safety and Trigger Spring	$0 50
23	Trigger	1.70
24	Ejector	.85
25	Ejector Pin	.10
26	Retractor Spring	.30
27	Follower	.50
28	Plug (Take Down)	.50
29	Plug and Link Pin (2)	.10
30	Link (2)	.20
31	Link Pin, Short (2)	.10
32	Magazine Catch	.50
33	Magazine Catch Pin	.10
34	Magazine Follower	.10
35	Magazine Spring	.75
36	Magazine Complete	1.80
37	Stock, Right and Left Hand (per Pair)	3 60
38	Stock Screws (4)	.10
	Stock Screw Studs (4)	.10

COMPONENT PARTS OF COLT DERRINGER

	Each
Lock Frame	$2 70
Barrel	2 70
Barrel Sight	.20
Hammer	50
Main Spring	.15
Trigger	.60

	Each
Trigger Spring	$0 10
Ejector Spring	10
Barrel Stop	.10
Stocks, per Pair	50
Stock Screw	.10
Escutcheons, per Set	.10

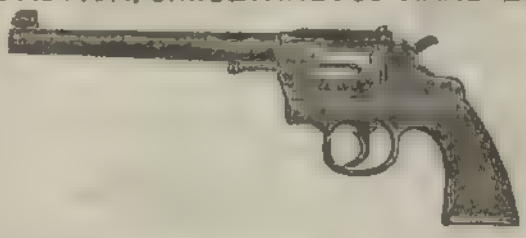
	Each
Ejector	$0 20
Ejector Pin	.10
Ejector Screw	.10
Hammer Screw	10
Trigger Screw	.10
Connection Screw	.20

Loose

COLT REVOLVERS

NOTE.—Our Stock of Colt Revolvers Comprises all the Best Selling Styles. Any Other Style, Caliber or Finish Made by the Colt Patent Fire Arms Mfg. Co., which We do not Illustrate, We can Furnish Promptly by Shipping Direct from Factory

DOUBLE ACTION, SIMULTANEOUS HAND EJECTING



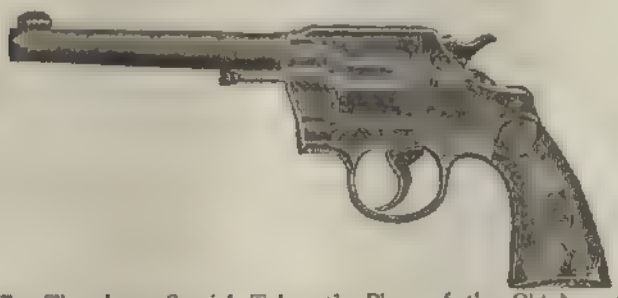
OFFICERS MODEL TARGET

Jointless Solid Frame; Swing-out Cylinder; Checked Walnut Target Handle; Hand Finished Action, Guard Strap and Trigger Finely Checked Front Sight Adjustable for Elevation; Rear Sight with Adjusting Screw; Adjustable for Windage; Positive Lock.

38 Caliber; 6 Shots; Shoots 38 Long Colt, 38 Colt Special, also 38 S&W Special, Full and Mid-range Loads.

	Blued	Each
No. 2386OT	—6 inch Barrel, Entire Length 11¼ inches, Weight 33½ ozs	$37.00
✣No. 2387½OT	—7½ inch Barrel; Entire Length 12¾ inches; Weight 35 ozs	37 00

One in a Box



NOTE.—The Army Special Takes the Place of the Old New Army and New Navy, Possessing all of their Good Features and Many Improvements.

ARMY SPECIAL

Jointless Solid Frame; Swing-out Cylinder; Rubber Handle; Positive Lock

32 Caliber

6 Shots, Shoots 32-20 WCF Cartridges

	Blued	Each
No. 2324AS	—4 inch Barrel; Weight 33 ozs	$31 00
No. 2325AS	—5 inch Barrel; Weight 36 ozs	31 00
No. 2326AS	—6 inch Barrel; Weight 36 ozs	31.00

38 Caliber

6 Shots, Shoots 38 Short and Long Colt CF Cartridges, 38 Colt Special also 38 S&W Special, Full and Mid-range Loads and U. S. Service Cartridges.

	Blued	Each
No. 2384AS	—4 inch Barrel, Weight 34 ozs	$31 00
No. 2385AS	—5 inch Barrel; Weight 37 ozs	31 00
No. 2386AS	—6 inch Barrel; Weight 36 ozs	31 00

41 Caliber

6 Shots, Shoots 41 Short and Long Colt CF Cartridges

	Blued	Each
No. 2414AS	—4 inch Barrel; Weight 33 ozs	$31 00
No. 2415AS	—5 inch Barrel; Weight 35 ozs	31 00
No. 2416AS	—6 inch Barrel, Weight 36 ozs	31 00

Adopted by Military Organizations and Mounted Police. A Most Excellent Weapon for Hunters and Campers.

✣ NEW SERVICE

Jointless Solid Frame; Swing-out Cylinder, Rubber Handle with Swivel Ring; Positive Lock.

6 Shots; Blued

✣ 38 Caliber; Shoots 38-40 WCF Cartridges

	Each
✣ No. 2384½S—4½ inch Barrel; Wt. 39 ozs.	$33 00
✣ No. 2385½S—5½ inch Barrel; Wt. 40 ozs.	33 00
✣ No. 2387½S—7½ inch Barrel; Wt. 43 ozs.	33 00

✣ 44 Caliber; Shoots 44/40 WCF Cartridges

	Each
✣ No. 2444½S—4½ inch Barrel; Wt. 39 ozs.	$33 00
✣ No. 2445½S—5½ inch Barrel; Wt. 40 ozs.	33 00
✣ No. 2447½S—7½ inch Barrel; Wt. 43 ozs.	33 00

✣ 45 Caliber; Shoots 45 Colt CF Cartridges, Full, Medium or Gallery Loads

	Each
✣ No. 2454½S—4½ inch Barrel; Wt. 39 ozs.	$33 00
✣ No. 2455½S—5½ inch Barrel; Wt. 40 ozs.	33 00
✣ No. 2457½S—7½ inch Barrel; Wt. 43 ozs.	33 00

✣ Can Also be Furnished from the Factory Chambered to Take 44 S&W Russian, Full, Mid-range or Gallery Loads also for English Cartridges .450 and .455 Caliber (Eleys).

One in a Box

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Hartford, Conn.

COLT REVOLVERS

NOTE.—Our Stock of Colt Revolvers Comprises all the Best Selling Styles; any Other Style, Caliber or Finish Made by the Colt Patent Fire Arms Manufacturing Co., Which we do not Illustrate, we can Furnish Promptly by Shipping Direct from Factory

SINGLE ACTION

These Revolvers Should be Carried with the Hammer Resting in the Safety Notch

Note.—This Revolver is the Single Action Army Improved, Having a Longer Hammer Spur, Larger Grooves in Design of Hammer, Trigger and Lock Work Have Been so Changed as to Produce a Lighter and Smoother Action; All of these Parts Have Been Introduced Without Sacrificing the Accuracy, Simplicity and Durability of the Popular Single Action Army.

ARMY MODEL

Solid Frame; Rod Ejection; Rubber Handle; 6 Shots; Blued Revolvers in these Styles Have Case Hardened Finish Frames

32 Caliber, Shoots 32 20 WCF Cartridges

NICKEL PLATED

	Each
✢ No. 324¾SA—4¾ inch Barrel; Weight 42 ozs.	$30.00
✢ No. 325½SA—5½ inch Barrel; Weight 43 ozs.	30 00
✢ No. 327½SA—7½ inch Barrel; Weight 45 ozs.	30 00

BLUED

	Each
No. 2324¾SA—4¾ inch Barrel; Weight 42 ozs.	$30 00
No. 2325½SA—5½ inch Barrel; Weight 43 ozs.	30.00
No. 2327½SA—7½ inch Barrel; Weight 45 ozs.	$30 00

38 Caliber; Shoots 38 40 WCF Cartridges

NICKEL PLATED

	Each
✢ No. 384¾SA—4¾ inch Barrel; Weight 42 ozs.	$30 00
✢ No. 385½SA—5½ inch Barrel; Weight 43 ozs.	30 00
✢ No. 387½SA—7½ inch Barrel; Weight 45 ozs.	30.00

BLUED

	Each
No. 2384¾SA—4¾ inch Barrel; Weight 42 ozs.	$30 00
No. 2385½SA—5½ inch Barrel; Weight 43 ozs.	30 00

44 Caliber; Shoots 44 40 WCF Cartridges

BLUED

	Each
No. 2444¾SA—4¾ inch Barrel; Weight 36 ozs.	$30 00
No. 2445½SA—5½ inch Barrel; Weight 38 ozs.	30.00
✢ No. 2447½SA—7½ inch Barrel; Weight 40 ozs.	30.00

45 Caliber; Shoots 45 Colt CF Cartridges, Full, Medium or Gallery Loads

BLUED

	Each
No. 2454¾SA—4¾ inch Barrel; Weight 35 ozs.	$30 00
No. 2455½SA—5½ inch Barrel; Weight 36 ozs.	30 00
✢ No. 2457½SA—7½ inch Barrel; Weight 38 ozs.	30.00

✢ Army and Bisley Models can also be Furnished from the Factory (at Hartford, Conn.) Chambered to Take the Following Cartridges: 38 Short and Long Colt; 38 Colt Special; 38 S&W Special; also 44 S&W Russian; Full, Mid-range and Gallery Loads.

One in a Box

COLT AUTOMATIC PISTOLS

The Action of all Colt Automatic Pistols is Automatic, Except the Gun Must be Pulled to [illegible] by the Hand, Bringing the First Cartridge into the Chamber. On Pulling the Trigger the Gun is Fired, the Empty Shell is Extracted, and a new Cartrige Loaded into the Chamber, All These Operations Taking Place Automatically Without Manipulation of the Parts. The Automatic Operation of the Pistol Does not Relax the Grip of the Hand, and Does Away with the Recoil Motion, Thus Enabling Repeated Shots to be Fired Quickly Without Disturbing the Aim. The First Shot can be Discharged More Quickly than from any Arm Made, as this Pistol can be Carried with Perfect Safety while the Hammer is at Full Cock.

POCKET MODEL

HAMMERLESS

Safety—Besides the Safety in the Action, which Does not Permit Hammer to be Released Unless Action is Fully Closed, this Arm has Two Additional Operating Safeties.

(1) The Slide Lock Indicates When the Arm is Cocked and, when Engaged in the Slide Cut, Disconnects the Trigger from the Operating Mechanism, but can be Readily Drawn Down by the Thumb When One Desires to Shoot.

(2) An Automatic Safety, also Acting as an Indicator, Locks the Action Until the Handle is Firmly Grasped when Pulling the Trigger.

It will thus be seen that here are Two Indicators Showing when the Hammer is Cocked; and there are Two Safeties, Either of which is Absolutey Positive, One of which is Automatic.

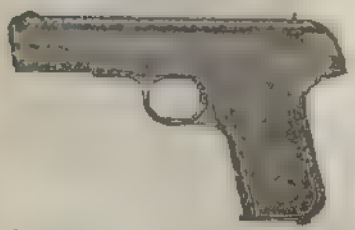
25 CALIBER VEST POCKET

Capacity of Magazine 6 Shots; 2 inch Barrel; Slide Lock Safety and Grip Safety; Length Over All 4½ inches; Shoots 25 Automatic Colt, Rimless, Smokeless Cartridges; Weight 13 ozs.

	Each
No. 2252AA—25 Caliber; Full Blued with Case Hardened Trigger; Rubber Handle	**$22 00**
No. 2252AP—25 Caliber; Full Blued; **Pearl Handle**	**25 00**
No. 252AA—25 Caliber; Full Nickel Plated; Rubber Handle.	**22.00**
No. 252AP—25 Caliber; Full Nickel Plated; **Pearl Handle.**	**25 00**

One in a Box

REGULAR POCKET

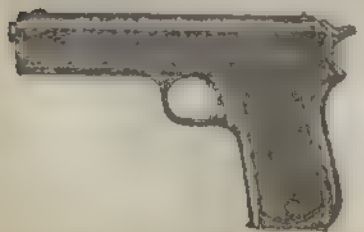


Three and Three-quarter inch Barrel; Rubber Handle; Full Blued; Length Over all 6¾ inches; 23 ozs.

	Each
No. 2323¾AA—32 Caliber; 8 Shots; Shoots 32 Automatic Colt, Rimless, Smokeless Cartridges	**$28 00**
No. 2323¾AP—32 Caliber Pearl Handle, Otherwise Same as No. 2323¾AA	**34 00**
No. 2390¾AA—380 Caliber; 7 Shots; Shoots Automatic Colt, Rimless, Smokeless Cartridges	**29 00**

One in a Box

HAMMER



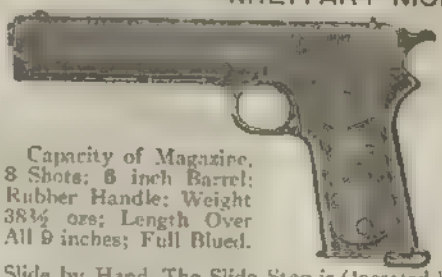
38 Caliber

Capacity of Magazine 7 shots; 4½ inch Barrel, Rubber Handle; Full Blued; Length Over All 7½ inches; Weight 32 ozs.

	Each
No. 2384½AA—38 Caliber; Shoots 38 Automatic Colt, Rimless, Smokeless Cartridges	**$34 00**

One in a Box

MILITARY MODEL



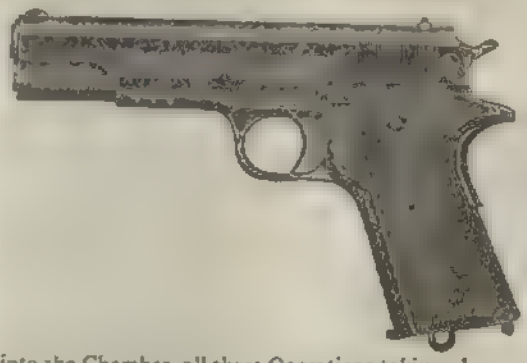
Capacity of Magazine, 8 Shots; 6 inch Barrel; Rubber Handle; Weight 38½ ozs; Length Over All 9 inches; Full Blued.

In this Model the Slide Remains Open after firing the Last Cartridge. When Reloading the Arm in this Position, Insert the Magazine, then Press Downward the Slide Stop (to the Rear of the Trigger, as Illustrated). The Slide goes forward, Inserting a Cartridge without any Movement of the Slide by Hand. The Slide Stop is Operated by the Thumb of the Hand, Holding the Pistol.

	Each
No. 2386MA—38 Caliber; Shoots 38 Automatic Colt, Rimless Smokeless Cartridges	**$38 00**

One in a Box

GOVERNMENT MODEL

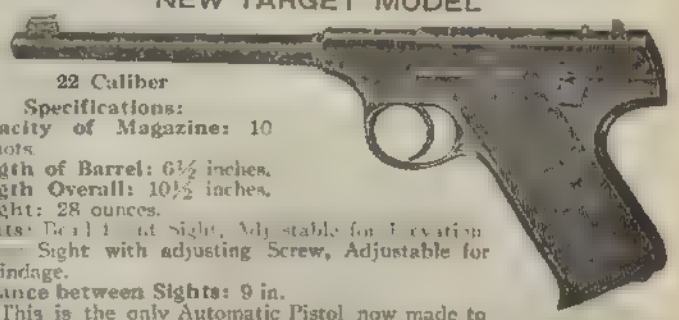


The action of this Pistol is Automatic, except that the Trigger must be pulled to fire each Shot; the Cartridges being supplied from a detachable Magazine, inserted in the Handle of the Pistol. On pulling the trigger the Cartridge is fired, the empty Shell is extracted and a new Cartridge Loaded into the Chamber, all these Operations taking place automatically without any manipulation of the Arm. The first Shot can be discharged more quickly than from any Arm made, as this Pistol can be carried with perfect safety while the Hammer is at full cock. Capacity of Magazine 7 Shots; Full Blued Finish with Checkered Walnut Stocks; Length of Barrel 5 inches; Length over all 8½ inches; Weight 39 ounces.

	Each
No. 2455A—45 Caliber; Shoots 45 U. S. Government, 230 Grain Bullet and 45 Colt Automatic, 200 Grain Bullet; both Rimless and Smokeless Powder; Full Jacketed Bullets	**$37.00**

One in a Box

NEW TARGET MODEL



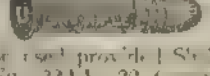
22 Caliber

Specifications:

Capacity of Magazine: 10 Shots.
Length of Barrel: 6½ inches.
Length Overall: 10½ inches.
Weight: 28 ounces.
Sights: Bead Front Sight, Adjustable for Elevation. Rear Sight with adjusting Screw, Adjustable for Windage.
Distance between Sights: 9 in.

This is the only Automatic Pistol now made to handle the Standard Caliber .22 Long Rifle Cartridge, and will prove most popular with Sportsmen, Target Shots, Experts and Beginners desiring a High Grade Pistol for Practice, Amusement and Recreation.

The Pistol is equipped with a Safety Lock which, when the Arm is Cocked, may be Applied thus preventing Lock, Hammer and Slide from Moving. A Magazine Safety is provided with a Thumb Grip or Pin which Projects on the Right Side of the Frame to the Operator to Compress or Remove the Lower End of the Magazine Spring so that, loading the Magazine, a feature that will be appreciated by those who know the difficulty of loading small Cartridges.

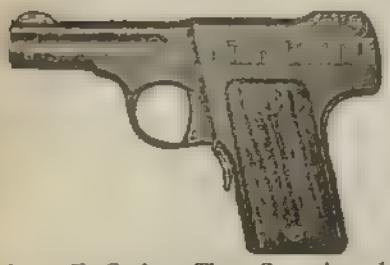


Cartridge: .22 Long Rifle, Rim Fire (Greased Cartridge, only), either Lesmok, Semi-Smokeless or Smokeless. Note: Greaseless Cartridges may be used provided Shells are Properly Lubricated.

	Each
No. 22AA—22 Caliber; Shoots the Standard .22 Long Rifle Cartridges; One in a Box	**$32 00**

AUTOMATIC PISTOLS

SMITH & WESSON



The Action of This Pistol is Automatic, Except that the Trigger Must Be Pulled to Fire Each Shot; the Cartridge Being Supplied from a Detachable Magazine in the Handle of the Pistol. On Pulling the Trigger the Cartridge is Fired, the Empty Shell Extracted and a New Cartridge Loaded into the Chamber, All These Operations Taking Place Automatically without Manipulation of the Arm. To Perform These Operations the Recoil is so Absorbed in Being Utilized that it Has no Disturbing Effect.

There are two Safeties on this Arm; one a Hand Operated Non-Automatic, engaging with and Locking the Sear, when the Arm is cocked but not fired; this safety is so located that it can be conveniently operated by the thumb of the Right Hand. The other Safety, one of the Salient features of this Pistol, being Automatic and rendering the Arm inoperative till depressed by the middle Finger by two distinct motions, one Transverse, the other Inward. Capacity of Magazine 7 shots. Full Blued Finish with Walnut Stock, with a Backing of a Steel Plate. Length of Barrel 3 inches; Length over all 6½ inches; Weight 28 ozs.

Each

No. 2353½AA—35 Caliber; Shoots 35 Smith & Wesson Automatic Rimless; Smokeless Cartridges..... **$28 00**

One in a Box

SAVAGE

The Savage Automatic Makes the Shooting of the Novice Safe and Sure when in Combat or Hunting. **It Puts into His Hand Eleven Shots at Once and the Ability to Reload "10 Shots Quick" in One Second's Time. The Savage is of the Automatic Type in which the Recoil of Firing the Cartridge Extracts and Ejects the Empty Shell, Cocks the Pistol, Reloading it in Readiness for the Next Shot. The Trigger Must Be Pulled to Fire Each Shot. The Savage Possesses Many Points of Superiority Over Other Pocket Arms, Namely: Aims Easy as Pointing Your Finger; Fires Ten Shots Quick; Action Unusually Simple; Entire Arm Can Be Easily and Quickly Taken Completely Apart and Put Together with the Hands; Weighs from Three or Four Ounces Less than Other Automatics; Operation is Always Positive and Can Be Operated with Thumb of Firing Hand. The Only Automatic that Has an Indicator which Tells at All Times Whether Pistol is Loaded**

Capacity of Magazines 10 Shots; 4 inch Barrel; Rubber Grips; Weight 19 ozs.; Length Over All 8 ½ inches; Full Blued.

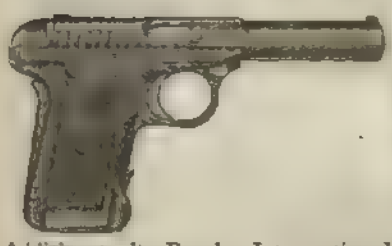
Each

No. S32AA—32 Caliber; Shoots 32 Rimless, Smokeless Cartridges..... **$27 00**

One in a Box

SAVAGE

With Grip Safety



The 1915 Savage Automatic Pistol in its New Form is Entirely Hammerless, with the Upper End of the Cocking Lever Covered and the Entire Top of the Breech Plug Enclosed, which Prevents the Necessity or Possibility of Cocking or Uncocking the Pistol without Retracting the Bolt.

The Pistol is Also Fitted, in Addition to its Regular Intercepting Independent Safety with a Grip Safety which Positively Locks the Trigger and Makes it Impossible to Discharge the Arm Unless the Handle is Grasped Firmly by the Shooter's Hand, and it is also Provided with a Simple and Effective Button Slide which Locks the Action of the Pistol Open when the Last Cartridge is Fired.

Each.

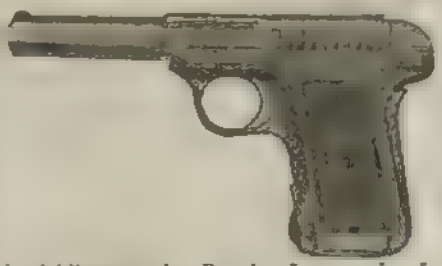
No. S32A—32 Caliber; Capacity of Magazine 10 Shots; Length of Barrel 3 ¾ inches, Length Over All 6½ inches, Weight 19 ozs. **$28 00**

One in a Box

AUTOMATIC PISTOLS

SAVAGE

With Grip Safety



The 1915 Savage Automatic Pistol in its New Form is Entirely Hammerless, with the Upper End of the Cocking Lever Covered and the Entire Top of the Breech Plug Enclosed, which Prevents the Necessity or Possibility of Cocking or Uncocking the Pistol without Retracting the Bolt.

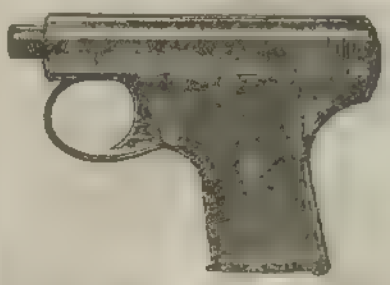
The Pistol is also Fitted, in Addition to its Regular Intercepting Independent Safety with a Grip Safety which Positively Locks the Trigger and Makes it Impossible to Discharge the Arm Unless the Handle is Grasped Firmly by the Shooter's Hand, and it is also Provided with a Simple and Effective Button Slide which Locks the Action of the Pistol Open when the Last Cartridge is Fired.

Each

No. S380A—380 Caliber; Capacity of Magazine 10 Shots; Length of Barrel 4½ inches; Length overall 7 inches; Weight 21 ozs..... **$29.00**

One in a Box

H. & R. SELF LOADING



This Pistol is Styled Self Loading, Although the Action is Automatic Except that the Trigger Must be Pulled to Fire Each Shot; Cartridges Are Supplied from a Magazine Placed in the Chamber of the Pistol. Hammer is Cocked by Pulling the Breech Lock Back Once by the Hand. On Firing a Cartridge the Empty Shell is Extracted and a New Cartridge Loaded in the Chamber; this Operation Takes Place Automatically and without any Manipulation of the Arm. To Perform These Operations the Recoil is so Absorbed Being Utilized that it has No Disturbing Effect.

A Positive Safety Lock in Pistol Lever Locks the Firing Mechanism and is Operated by the Thumb of the Right Hand. When in Normal Position the Word Safe is Visible and the Pistol can not be Discharged; By Throwing the Safety Lever up with the Thumb the Safe is Obscured and the Pistol is Ready for Instant Use. Very few parts, and so Constructed that Coil or Spiral Springs throughout Reduce Liability of Breakage to a Minimum. Capacity of Magazine 8 Shots. Full Blued Finish with Checkered Walnut Stock; Length of Barrel 2 inches; Length over all 4½ inches; Weight 12½ Ounces.

Each

No. H25A—25 Caliber; Shoots 25 Colt Automatic Rimless, Smokeless Cartridges..... **$21.00**

One in a Box

With a Filled Magazine in Place and First Cartridge is Moved into Position and the Firing Pin Cocked, the Breech Lock Back by the Hand. After the Shooter Lever is Moved Up with the Thumb the Pistol is Ready for Firing and Can Be Discharged by Pressing the Trigger. After the First Cartridge Has Been Fired the Chamber. Another Cartridge Can be Loaded into the Magazine Which Has Nine Shots at the Disposal of the Shooter. [illegible] Cartridge the Empty Shell is Extracted, the Firing Pin Cocked, and a Cartridge from the Magazine is Moved into the Chamber, the Breech Closed, all Automatically and without Manipulation of the Arm. To Perform these Operations the Recoil is Utilized, with the Result that the "Kick" usual in a Powerful Pocket Weapon is Reduced and Increased Accuracy and Rapidity of Effective Fire is Secured.

The Third Safety, Operated by the Magazine, makes Discharge Impossible when the Magazine is Removed from the Pistol. In the Automatic Pistols the Hammer or Firing Pin is Cocked after the First Shot has been Fired and there is always a Cartridge in the Chamber until the Last Cartridge Contained has been Shot. In this Pistol the Possibility of Unintentional Discharge after Removal of Magazine is Eliminated.

Each

No. H32A—32 Caliber; Shoots 32 Colt Automatic Cartridges; Length of Barrel 3½ inches; Length Over All 6½ inches. Capacity of Magazine 8 Shots; Weight Each 22 ozs..... **$26.00**

One in a Box

EMPIRE

COMBINATION POCKET KNIVES AND TOOLS

Fully Guaranteed

EMPIRE

★EMPIRE

Electricians Knife, Lock Back. Length 3⅝ inches, German Silver Flush Bolster; One Screw-Driver Blade with Cutting Edge; Glazed and Etched, Brass Lining, German Silver Shield. Weight per Dozen 22 ozs. Per Dozen

No. 1E50—Cocobolo Handle **$13.50**

Half Dozen in a Box

★EMPIRE

Electricians Knife; Plain Back, Length 3¼ inches, German Silver Flush Bolsters; One Large Spear and One Screw-Driver Blade with Cutting Edge; Glazed and Etched, Brass Lining, German Silver Shield, Weight per Dozen 17 lbs. Per Dozen

No. 2E49E—Ebony Handle **$14.00**

Half Dozen in a Box

★J. KOESTER'S SONS', GERMANY

Congress Pattern; Length 4 inches, Polished Steel Rat Tail Bolsters; One Large Spear and One Large Blade, Full Polished, One Cigar Punch and Screw Driver, One Leather Punch, Brass Lining, German Silver Shield, Weight per Dozen 3½ lbs. Per Dozen

No. C5006ST—Patent Stag Handle **$28.00**

Half Dozen in a Box

★J. KOESTER'S SONS', GERMANY

Anglo-Saxon Pattern; Length 3⅝ inches; German Silver Flush Bolsters; One Large Spear and One Small Pen Blade; Half Polished; One Cigar Punch and Screw Driver, Brass Lining; German Silver Shield; Weight per Dozen 2⅜ lbs. Per Dozen

No. C4096ST—Patent Stag Handle **$18.00**

Half Dozen in a Box

BOY SCOUTS OF AMERICA

Length 3⅝ in.; No Caps or Bolsters; German Silver Shield; German Silver Burrs on Rivets at each end; Brass Lining; One large Spear Blade; One Combination Screw Driver and Cap Lifter, One Can Opener and Hook and One Leather Punch Blade; Half Polished and Etched; Weight per Doz. 2½ lbs. Per Dozen

No. 4B445AC—Assorted Colored Pyralin Handles Gray Bone, Water Lined Crimson and Water Lined Blue **$22.00**

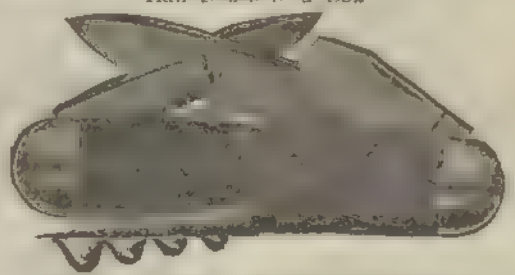
Half Dozen in a Box

★J. KOESTER'S SONS', GERMANY

Congress Pattern; Length 4¼ inches; Polished Steel Rat Tail Bolsters, One Large Spear and One Large Congress Blade, Full Polished; One Cigar Punch and Screw Driver, One Leather Punch; Brass Lining, German Silver Shield; Weight per Dozen 2¾ lbs. Per Dozen

No. C8001ST—Patent Stag Handle **$20.00**

Half Dozen in a Box

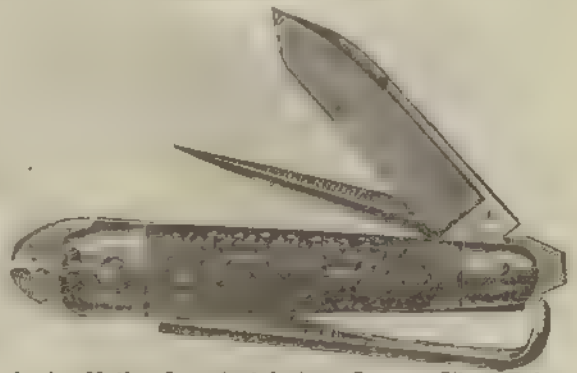


★W. H. MORLEY & SONS', GERMANY

Regular Jack Pattern. Length 3½ inches, German Silver Flush Bolsters, One Large Spear and One Small Pen Blade, Full Polished, One Cigar Punch and Screw Driver and Screw Driver, One Leather Punch; Brass Lining; No Shield; Weight per Dozen 2½ lbs. Per Dozen

No. 7938ST—Patent Stag Handle **$27.00**

Half Dozen in a Box



Mechanics Knife; Length 4 inches; German Silver Bolsters; One Large Spear Blade, One Small Pen Blade, One Flat Nose Wire Cutting Pliers, One Reamer and One Screw Driver; Brass Lining; No Shield. Weight per Doz. about 3¾ lbs. Per Dozen

No. 8H—Patent Stag Handle **$27.00**

Half Dozen in a Box

COMBINATION POCKET KNIVES AND TOOLS

★ DIAMOND EDGE

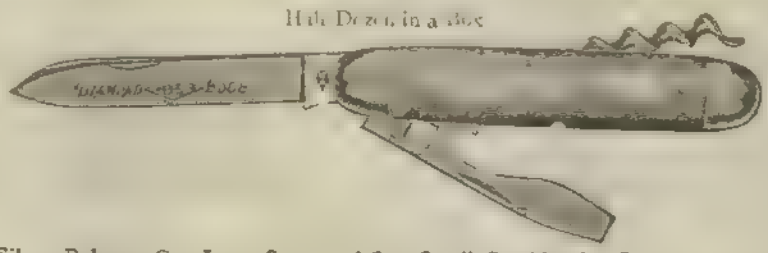
Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for **Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.**

Specially Adapted to the Needs of Automobilists

Length 3¾ Inches; German Silver Bolsters; One Large Spear and One Small Combination Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield. The Combination Blade Consists of Screw Driver, Crown Opener and a Prest-O-Lite Tank Key; Weight per Dozen 2 lbs.

	Per Dozen
No. 2S410ST— Patent Stag Handle	**$12.50**

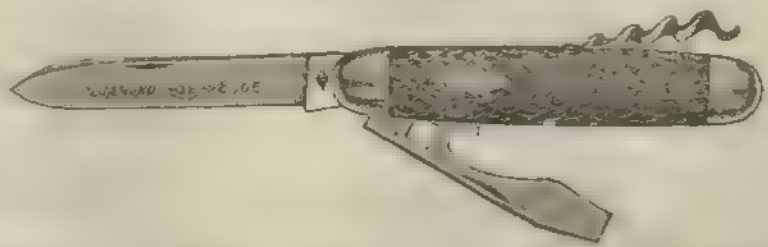
Half Dozen in a Box



Length 3 inches; German Silver Bolsters; One Large Spear and One Small Combination Blade; Half Crocus Polished and Etched; One Cork Screw; Brass Lining; Combination Blade Consists of a Screw Driver, Crown Opener and Prest-O-Lite Tank Key; Weight per Dozen 1¾ lbs.

	Per Dozen
No. 3S411P— Pearl Handle	**$36.00**
No. 4S411¼P— Same as No. 3S411P, except with **Punch Blade** in addition	**42.00**

Half Dozen in a box



Length 3 inches; German Silver Bolsters; One Large Spear Blade; One Cork Screw; One Combination Blade; Half Crocus Polished and Etched; Brass Lining; Combination Blade Consists of a Screw Driver, Crown Opener and Prest-O-Lite Tank Key; Weight per Dozen 1¾ lbs.

	Per Dozen
No. 3S411ST— Patent Stag Handle	**$32.00**
No. 4S411¼ST— Same as No. 3S411ST, except with **Punch Blade** in addition	**31.00**
No. 4S411STF—Same as No. 3S411ST, except with Flexible File Blade in addition	**24.00**

Half Dozen in a Box

Length 3¾ Inches; German Silver Bolsters; One Large Spear Blade; Half Crocus, Polished and Etched; Two Combination Blades; Glazed Finish; One Consists of Screw Driver, File and Wire Scraper; the Other Consists of Can Opener, Crown Opener and Prest-O-Lite Tank Key; Brass Lining. Weight per Dozen 2½ lbs.

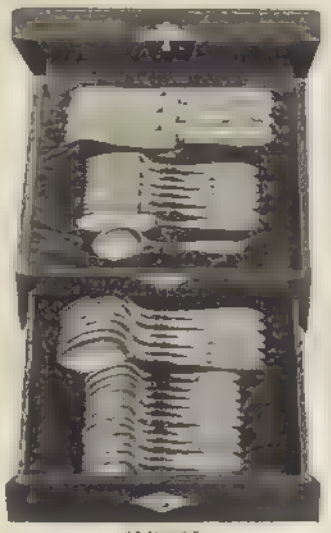
	Per Dozen
No. 3S407ST Patent Stag Handle	**$21.60**

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

COMMUNITY PLATE

IMPORTANT: ORDERS FOR CHESTS WITH CONTENTS MUST SPECIFY PATTERN WANTED



32 PIECE
GENUINE MAHOGANY CHEST
Illustration shows Adam pattern
CONTENTS

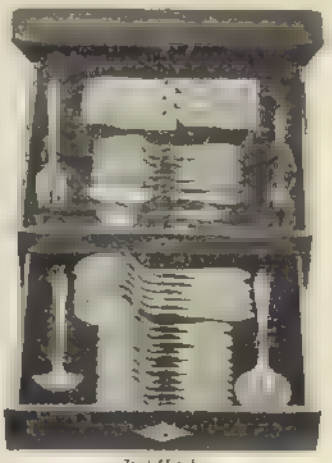
12 Teaspoons	6 Medium Knives
6 Tablespoons	6 Medium Forks
1 Butter Knife	1 Sugar Spoon

No 5035 With Hollow Handle Knives $61 75
No 5036 With Modeled Handle Knives 55 90

45-PIECE GENUINE MAHOGANY CHEST
Illustration shows Patrician Pattern—Contents

12 Teaspoons	3 Tablespoons	6 Medium Flat Forks
6 Medium Knives		6 Soup Spoons
6 Butter Spreaders, Flat		1 Butter Knife
1 Sugar Spoon		1 Cold Meat Fork
1 Berry Spoon	1 Gravy Ladle	1 Pickle Fork

No. 5037 With Hollow Handle Knives $95 90
No. 5038 With Modeled Handle Knives 90.00



36 PIECE
GENUINE MAHOGANY CHEST
Illustration shows Adam pattern
CONTENTS

12 Teaspoons	1 Butter Knife
6 Tablespoons	1 Cold Meat Fork
6 Medium Flat Forks	1 Berry Spoon
6 Medium Knives	1 Gravy Ladle
1 Sugar Spoon	1 Pickle Fork

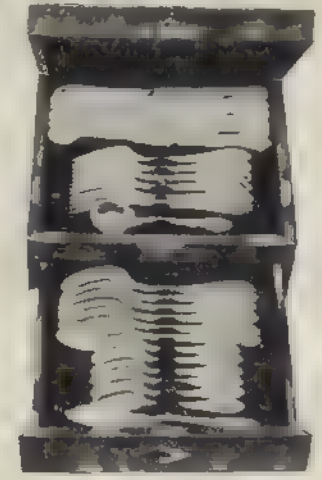
No. 5039 With Hollow Handle Knives .$79 50
No 5040 With Modeled Handle Knives 73 60

These Chests Furnished with any Community Plate Pattern, any Pattern with any Chest.

26-PIECE GENUINE MAHOGANY CHEST
Illustration shows Georgian Pattern
CONTENTS

6 Teaspoons	6 Medium Knives
6 Tablespoons	1 Butter Knife
6 Medium Flat Forks	1 Sugar Spoon

No 5041 With Hollow Handle Knives ... $55 75
No. 5042 With Modeled Handle Knives..... 49 90



26-PIECE
GENUINE MAHOGANY CHEST
Illustration shows Sheraton Pattern
CONTENTS

6 Teaspoons	6 Medium Knives
6 Tablespoons	1 Butter Knife
6 Medium Flat Forks	1 Sugar Spoon

No. 5043 With Hollow Handle Knives .$55 75
No. 5044 With Modeled Handle Knives 49.90

These Chests Furnished with any Community Plate Pattern, any Pattern with any Chest.

26-PIECE GREY SNAKE SKIN CHEST
Illustration shows Georgian Pattern
CONTENTS

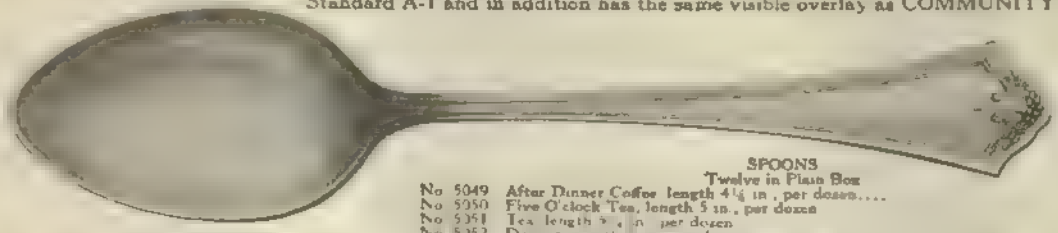
6 Teaspoons	6 Medium Knives
6 Tablespoons	1 Butter Knife
6 Medium Flat Forks	1 Sugar Spoon

No 5045 With Hollow Handle Knives $51 60
No 5046 With Modeled Handle Knives 45.75

ONEIDA COMMUNITY
RELIANCE PLATE

ANDOVER

The Andover is refreshing. Its crown of delicately wrought vase and flowers fills the eye with a delightful sense of poise and a touch of beauty that satisfies. The Andover, like all "Reliance" Patterns, bears an "all over" plate heavier than the Standard A-1 and in addition has the same visible overlay as COMMUNITY PLATE.



SPOONS
Twelve in Plain Box

No. 5049	After Dinner Coffee, length 4⅛ in., per dozen	$ 6.15
No. 5050	Five O'clock Tea, length 5 in., per dozen	6.15
No. 5051	Tea, length 5⅛ in., per dozen	6.15
No. 5052	Dessert, length 7 in., per dozen	12.30
No. 5053	Table, length 7⅝ in., per dozen	12.30
No. 5054	Soup, length 6⅞ in., per dozen	12.30

BABY SPOON
One in Lined Box
No. 5055 Length 4⅛ in., each $1.00

HOLLOW HANDLE KNIVES
Six in Flannel Roll

No. 5056	Medium, length 9⅛ in., per dozen	$24.75
No. 5057	Dessert, length 8¼ in., per dozen	23.95

HOLLOW HANDLE PIE SERVER
No. 5058 One in Lined Box. Length 10 in., each $3.70

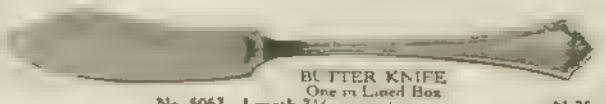
FLAT HANDLE FORKS Twelve in Plain Box

No. 5059	Medium, length 7⅝ in., per dozen	$12.30
No. 5060	Dessert, length 6⅞ in., per dozen	11.20

BABY FORK
No. 5061 One in Lined Box, length 4⅜ in., each $1.00

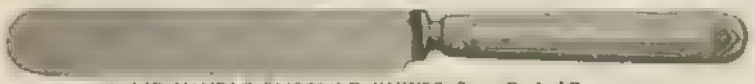
OYSTER FORK
No. 5062 Six in Lined Box, length 8¼ in., per set $4.60

HOLLOW HANDLE MEDIUM FORKS
No. 5063 Six in flannel roll, length 7⅝ in., per dozen $24.75



BUTTER KNIFE
One in Lined Box
No. 5067 Length 7⅞ in., each $1.25

BUTTER SPREADERS
Six in Lined Box
No. 5068 Length 5⅝ in., per set $5.80



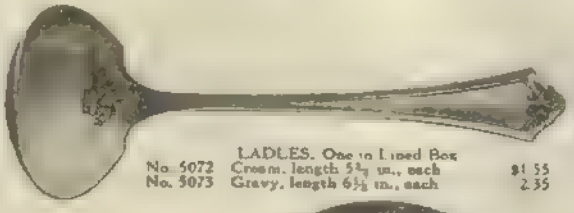
SOLID HANDLE EMBOSSED KNIVES. Six in Racked Box

No. 5064	Medium, length 7⅝ in., per dozen	$11.20
No. 5065	Dessert, length 7¼ in., per dozen	10.95
No. 5066	Fruit, length 6⅛ in., per dozen	9.50

INDIVIDUAL SALAD FORKS
Six in Lined Box
No. 5069 Length 6⅛ in., per set $6.20

SUGAR SPOON
One in Lined Box
No. 5070 Length 5⅝ in., each $1.20

SUGAR TONGS (SMALL)
One in Lined Box
No. 5071 Length 4½ in., each $1.70



LADLES. One in Lined Box

No. 5072	Cream, length 5⅛ in., each	$1.55
No. 5073	Gravy, length 6½ in., each	2.35

COLD MEAT FORK
One in Lined Box
No. 5074 Length 8⅛ in., each $1.70

BERRY OR SALAD SPOON
One in Lined Box
No. 5076 Length 8½ in., each $2.50

THREE-PIECE CHILD SET
One Set in Lined Box
No. 5075 Flat Handle Knife, length 7⅛ in., set $3.10

SMALL CARVING SET
Knife and Fork. One in Lined Box
No. 5077 Length 10 in., set $8.40

ANDOVER DESIGN

A FINE LINE OF ASSORTED COMPASSES AT UNUSUALLY LOW PRICES

PRICES EACH

No. 1790 (Imported)

No. 1795 (Imported)

No. 1796 (Imported)

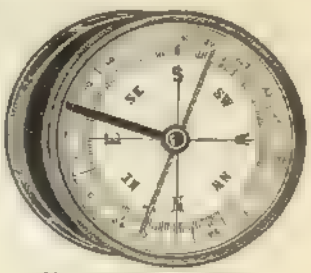
No. 1797 (Imported)

No. 1715 (Imported)

No. 1710 (Imported)

No. 1712 (Imported)

No. 1723 (Imported)



No. 1725 (Imported)

No. 999 Telaway (American)

No. 2910 (American)

No. 2915 (American)

No. 2917 (American)

COMMON GERMAN MAKE FOR POCKET USE

PRICES EACH

No.	DESCRIPTION	SIZE 25 MM 1 in.	30 MM 1 3-16 in.	45 MM 1 7-8 in.	40 MM 1 1-8 in.	45 MM 1 1-4 in.	50 MM 2 in.
[illegible]	Nickel case, with handle, card dial, brass cap to needle	$0 [illegible]	$0 [illegible]	$0 50	$0 [illegible]	$0 [illegible]	
[illegible]	Nickel case, with cover, card dial, brass cap to needle		60	75	80	90	
1790	Heavy brass case, with handle, silvered metal dial, brass cap to needle, same as cut 1790	75	85	1 00	1 15	1 30	$1 35

FINE FRENCH MAKE FOR POCKET USE

PRICES EACH

No.	DESCRIPTION	SIZE 40 MM 1 5-8 in.	45 MM 1 7-8 in.	50 MM 2 in.	60 MM 2 3-8 in.	70 MM 2 3-4 in.	80 MM 3 1-4 in.
1701	Brass case with handle, silvered metal dial, brass cap to needle and stop	$1 [illegible]	$1 [illegible]	$1 85			
1702	Same as No. 1701, but with jeweled cap and full divisions on dial	1 85	[illegible]	2 00			
1705	Brass Case, silvered metal dial, brass cap to needle, stop and snap cover	1 70	[illegible]	2 00			
1707	Same as No. 1705, but with jeweled cap and full divisions on dial	2 40	2 50	2 65			
1710	Brass case, silvered metal dial, with brass cap to needle, stop.	2 20		2 [illegible]			
1712	Same as No. 1711, but with jeweled cap and full divisions on dial	3 70		3 15			
1714	Watch case style, nickel plated, jeweled needle, automatic stop, full divisions with spring cover	4 50	5 00	5 25			
1715	Watch case style, nickel plated, jeweled needle, automatic stop, full divisions	7 75	5 50	5 75	$ 50		
1716	Watch case style, extra fine, nickel plated, jeweled bar needle, automatic stop, full divisions, and [illegible] magnetic compass with spring cover	1 00	9 00	12 75			
1717	Brass case with handle, flat needle, jeweled cap, full divisions, silvered metal compass with revolving bottom, having inner arrow attached to indicate direction from direction		3 50				
1718	Same as No. 1717, with cover		4 75				
1721	Heavy brass case, with double bottom, with [illegible] metal dial, full divisions, bar needle, [illegible] and [illegible] cover				[illegible]	4 50	
1723	Same as No. [illegible] metal dial, full divisions, jeweled cap				[illegible]	[illegible]	$ 90
1724	Same as No. 1725, but [illegible] metal dial				5 40	6 50	$7 40
1725	Heavy [illegible] plated case with [illegible] cover, silvered, metal dial, full divisions, bar needle, [illegible] and [illegible]				5 40	6 [illegible]	7 00
1727	Same as No. 1725, but with divisions on [illegible] as shown [illegible]				5 75	6 [illegible]	7 40

FINE AMERICAN MAKE COMPASSES FOR POCKET USE

For fishermen, hunters, pedestrians, motorcyclists, automobilists, travelers, tourists, boy scouts, campers, sailors, woodsmen, farmers. In fact, almost everyone appreciates a good compass.

ALL MADE WITH UNTARNISHABLE SILVERED METAL DIALS AND AMERICAN MADE SOLID WHITE NICKEL CASES

No. 999 Telaway Compass, [illegible] dial, brass case, flat needle, jeweled center, [illegible] and [illegible] Each.....$1 80

No. 2910 Leedawl Compass, flat needles, jeweled center. Each.....$3 40

No. 2911 Magnapole Compass, [illegible] edge bar needle, jeweled [illegible] Each.....$5 10

No. 2912 Leodaric Compass, [illegible] dial, jeweled center. Each.....$5 10

No. 2913 Latenite Compass, floating dial with permanent luminous points, jeweled center. Each.....$6 75

No. 2914 Cydawl Compass, flat needle, jeweled center. Each.....$6 75

No. 2915 Magnapole Compass, edge bar needle, jeweled center. Each.....$8 40

No. 2916 Moradial Compass, floating dial, jeweled center. Each.....$8 40

No. 2917 Ceebynite Compass, floating dial with permanent luminous points, jeweled center. Each.....$10 60

THE AUTOGLAS

PATENTED MAY 2, 1911

In our patented Autoglas we have what has proved to be the only comfortable goggle and only efficient eye protector. On the market only two years, it has taken its place throughout the world as the most desirable article of its kind ever made and every one sold is an advertisement that sells others.

The Only Comfortable Goggle — The Only Efficient Eye Protector

The Autoglas is made to conform to the shape of the face and nose, all dust and even wind is excluded, and absolutely unobstructed vision is provided. There is no uncomfortable elastic or cheek binding, the goggle being of glass except the hinged center piece and temples, which are made of good quality of gold filled and the temples are then covered with a specially prepared lining to make them easier on the ears.

THE PATENTED FEATURE—THE HINGED CENTER PIECE

which can not be procured on any other glass, in connection with four different curves of the inner edge of lenses, allows of exact adjustment to individual requirements. Being open at the sides these goggles do not heat the eyes, thereby giving the maximum ventilation and at the same time excellent protection. These goggles were originally designed as shooting glasses and are peculiarly adapted for that purpose and are used extensively by the leading trapshooters of the world as well as the leading automobile drivers. They are supplied regularly with amber colored lenses of periscope shape, with an inner grinding meniscus curve of 6 dioptres instead of best glass, and are absolutely without fuses. They may be procured also with Rx lenses, having the ordinary wearer's correction if so required, and it is in this form that we particularly recommend them to our refracting customers as **an extra item of profit** that we have created for them because no further examination is necessary when form that is already known and a copying of the Rx is all that is called for.

The Autoglas is made in four shapes, two large and two medium and a set of four for trial purposes is recommended.

Autoglas, complete with case	Each $3.50
For Plano Meniscus Autoglas dark amber and smoke	Extra, per pair 1.75

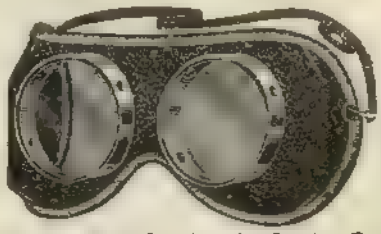
The minimum retail price on this glass, complete with case, as above described and not sold for less than $14.00, our catalog list

Automobile Goggles and Eye Protectors

ILLUSTRATIONS ARE REDUCED SIZE. PRICES EACH.

No. Z1W. The Zylbex Eye Protector. Shell frame with ventilated leather side guards and rust-proof flexible cable temples of white metal. 1¾-in round amber lenses. Much worn for motoring. A spring-lid covered steel case with each goggle.. Each $2.30

No. Z5. Zylbex Eye Glass. An unusually distinctive design in shell rims with long spring and black metal guards. 1¾-in round amber lenses. A much preferred style by women who like protection without temples Each $1.90



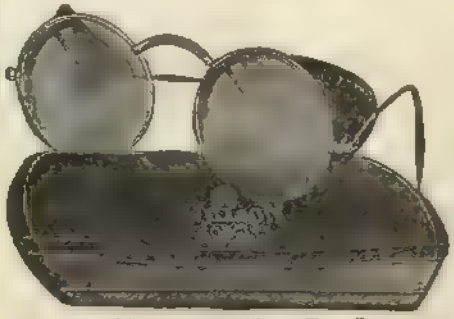
Boston Non-Heat Goggle, with Bulging Frame and Extension Rims.

No. 333 Leather, leather cord bound, nickel rims	Each $0.25
No. 330 Grain Leather, nickel rims, felt bond.	Each .50
No. 331 Leather, felt binding, nickel rims, elastic band	Each .50
Smoke, Green, Blue or Amber Glass.	
Extra on Boston Goggles	Each .50

The Engineer's Goggle.
No. 722S

This well-known goggle is extensively used as a protector by railway men and engineers. It has the largest possible range of vision and fits all around the eyes and face, excluding all dust, cinders, etc., although fully ventilated.

With white lenses	Each $2.50
With extra heavy white lenses for stone cutting	Each 2.50
With electric smoke lenses for furnace workers	Each 2.50



No. A1 The famous Albex Eye Protector. The most popular style ever designed, ventilated leather side guards, flexible cable temples, adjustable brace ridge, and 1⅜ inch round lenses in amber and clear. Used by autoists, machinists, grinders and railroad men everywhere. Each goggle in a spring lid covered style case. Each $1.90

Albex Folding Goggle, each pair packed in a seal grain case for vest pocket. This new folding goggle is self adjusting and perfectly comfortable. While affording the best protection from glare, dust and wind, it is so light in weight that it can be worn constantly without discomfort. Glazed with Fieuzel, amber, smoke and clear mi-coquille lenses, 2 inches in diameter.
Each $1.00

CONCRETE MIXERS

LANSING

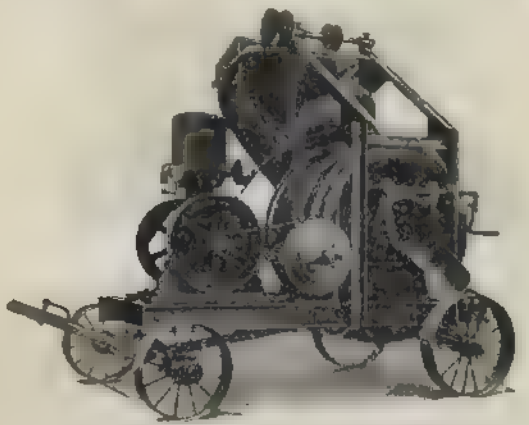
No. 10 with Power Side Loader and Water Tank. Gasoline Power.

Capacity of drum—Wet-mixed concrete per batch 8 cu. ft.; unmixed materials 10 cu. ft. Rating: Mixed concrete per hour, 40—8 cu. ft. batches 12 cu. yds.; 50—8 cu. ft. batches 15 cu. yds.; 60—8 cu. ft. batches 18 cu. yds.

Regular equipment: On steel trucks, standard wheelbarrow hopper, steel engine housing, team pole and set of tools. For optional equipment see below. Weight 4200 lbs.

No. 10 Regular—With 5 H.P. gasoline engine.....Each $1075.00

No. 10 Power Side Loader—With 6 H.P. gasoline engine and closed automatic water tank, weight 5540 lbs.....Each $1400.00



Housing removed to show power Connection.

No. 15 with Power Side Loader and Water Tank. Gasoline Power

Capacity of drum: Wet-mixed concrete per batch 12 cu. ft.; unmixed materials per batch, 15 cu. ft. Rating: Mixed concrete per hour, 40—12 cu. ft. batches 18 cu. yds.; 50—12 cu. ft. batches 22 cu. yds.; 60—12 cu. ft. batches 26½ cu. yds.

Regular equipment: same as No. 10. Weight 5500 lbs.

No. 15 Regular—With 8 H.P. gasoline engine.....Each $1600.00

No. 15 Power Side Loader—With 8 H.P. gasoline engine and closed automatic water tank, weight 7000 lbs.....Each 1975.00

Optional Equipment on Nos. 10 and 15 Mixers

Power side loader batch charging hopper, automatic water tank 8 ft. gravity distributing chute, loading platform, on skids or trucks less power, magneto, electric motor, steam engine and boiler

LIGHT WEIGHT STEEL PAVER

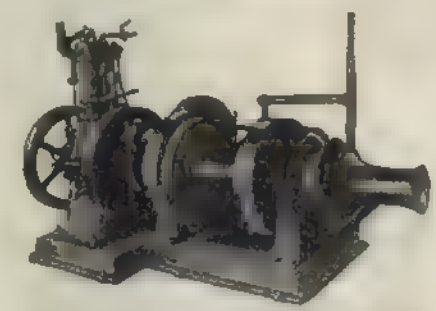
LANSING

One Bag Size

Traction forward and reverse. Cut steel sprockets, diamond roller steel transmission chain, gear driven drum, 20 gal. pressure tank. All operations—charging, mixing, discharging, spouting and moving are under one man's control. Novo or Ideal engines. Weight 5900 lbs.

No. 7—With 6 H.P. gasoline engine.....Each $1485.00

HOISTING OUTFITS



Single Drum, Single Speed, Reversible

Suitable for operating double platform material elevator and for general hoisting purposes. Drum or sheave can be operated alone in either direction, or both can be operated together. Steel cut gears, babbitted bearings, 2¼ in. steel shafting, semi-steel cast iron base, double friction clutches, foot brake with ratchet, etc. Weight 2775 lbs. Floor space 49 x 62 in. Choice of Bull Dog, Ideal or Novo engine.

No. C7—With 6 H.P. engine, drum holds 700 ft. ½ in. cable will lift 1600 lbs. 100 ft. per minute.....Each $600.00

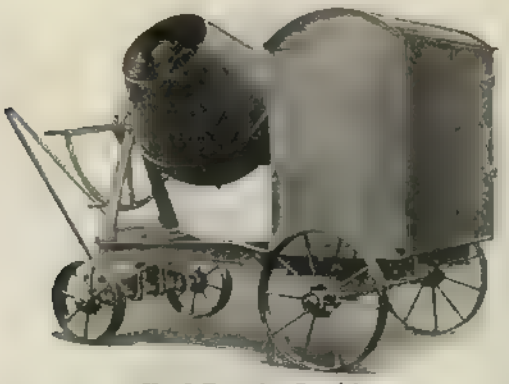
Non-Reversible Belt Hoist

For hoisting wheelbarrow loads of brick, mortar, concrete, timber and other materials. Drum will run in either direction. Its maximum lifting capacity is 1500 lbs. Operated by a belt drive, A 2 or 3 H.P. engine will run it. Gear is furnished instead of pulley, when desired, for direct connection with engine. Pushing lever forward engages the main drum, throwing it backward applies the brake. The weight on end of cable causes drum to reverse and unwind, under brake control. Weight 300 lbs. Floor space 28x38 in.

No. C8—Drum holds 250 ft. 1 in. cable, will lift 1600 lbs...Each $90.00

CONCRETE MIXERS

LANSING



No. 5 Broncho Special

This mixer is a dual purpose mixer suitable not only for the ordinary run of concrete, but equally well adapted for cinder concrete, top dressing and cement or lime mortar. For the average contractor or builder, who puts in a foundation today, a sidewalk tomorrow, and lays brick the next day, this mixer is indispensable, as it can be carried about from one job to another, doing away with slow, expensive hand mixing. Costs very little to operate and has a good capacity, as the drum holds five cubic feet of loose material at a batch, and the machine is rated at 40 yards of mixed concrete in 10 hours. This may be exceeded, depending on the size of the crew, and how far the material and concrete have to be moved. One man can run the mixer alone, although two work to better advantage, and three or four constitute a full crew.

The wheels are high, with 3 inch tires, cast hubs, staggered steel spokes, has draw pole for moving about on rough streets or country roads behind a wagon, buggy or even by hand. Weight about 1500 lbs. The engine is the powerful, reliable Novo or Ideal, and is covered with a substantial steel housing, completely covering the engine and all drive sprockets and chain, which keeps the dirt, dust, and weather away from the vital parts.

Capacity per batch: Unmixed materials, 5 cu. ft.; mixed concrete, 4 cu. ft.

No. 5 Broncho—With 2½ H P. engine.....Each $410.00

No. 5 with Standard Wheelbarrow Hopper

For sidewalk construction, curbing, small foundations, or any job not requiring over 30 or 50 cubic yards a day. The illustration shows regular equipment, but can be furnished with all practical attachments as specified below.

Capacity per batch: Unmixed materials, 5 cu. ft.; wet mixed concrete, 4 cu. ft

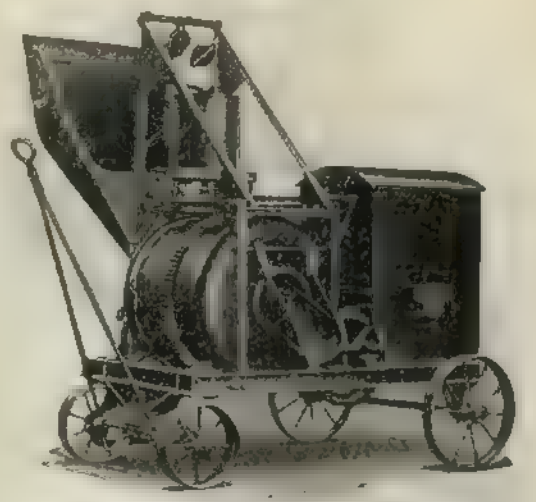
Capacity per hour of mixed concrete—with standard wheelbarrow hopper 4 cu. yds. Weight 2000 lbs

No. 5 Regular—With 2½ H.P. gasoline engine.....Each $475.00

Extras

Power side loader (4 H P. engine furnished), batch measuring hopper, automatic water tank, silo hoist, rotary pump, 8 ft. gravity discharge chute, magneto, team pole, higher wheels, wagon tread for country use, electric motor.

LANSING



No. 5 with Power Side Loader and Water Tank

Where speed and big capacity is an object, or where help is scarce and expensive, the power loader is a great time and labor saver. It nearly doubles the output, as one batch is prepared while the other is mixing. No lost time or waiting, as one batch follows the other through the drum in quick succession. The water tank is of the open type and 11 gal capacity It automatically measures the amount of water required for each batch, and should be specified on every mixer equipped with power loader.

Capacity per hour with power loader or batch charging hopper, 7 cu. yds. Weight 2400 lbs. The same extras as on No 5 Regular can be furnished

No. 5 Power Side Loader—With 4 H.P. gasoline engine and open automatic water tank.....Each $675.00

No. 7 with Power Side Loader and Water Tank. Gasoline Power.

A very portable mixer, well balanced and handles a bag of cement at each batch. Popular on small and medium sized jobs, where the expense of moving and operating a larger mixer is prohibitive The levers are so grouped that one man, without changing his position, can readily attend to the charging, discharging and water supply.

Capacity of drum: Wet mixed concrete per batch, 5 cu. ft.; unmixed materials per batch, 7 cu. ft. Rating: Mixed concrete per hour, 40—5 cu. ft. batches 7⅛ cu. yds.; 50—5 cu. ft. batches 9¼ cu. yds.; 60—5 cu. ft. batches 11 cu. yds.

Regular equipment: On steel trucks, standard wheelbarrow hopper, steel engine housing, hand pole and set of tools. Weight 3000 lbs

No. 7 Regular—With 4 H.P. gasoline engine.....Each $660 00

No. 7 Power Side Loader—With 4 H.P. gasoline engine, and open automatic water tank, weight 3860 lbs.....Each 875.00

Optional Equipment

Batch charging hopper, automatic water tank, rotary water pump, loading platform, 8 ft. gravity distributing chute, team pole, wagon tread wheels for country use, silo hoist on mixers equipped with wheelbarrow or batch charging hoppers; on skids or trucks less power, magneto, electric motor.

Concrete Mixers

Fig. 201

An eleven foot low charger concrete mortar and plaster mixer, light weight built of steel

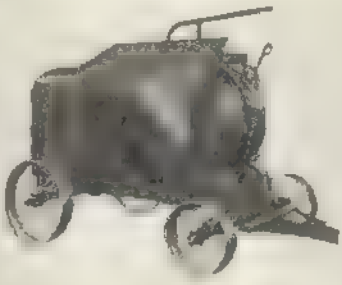


Fig. 202

An eight foot high w[illegible] special type built to [illegible] on 4 heads, 42" bar [illegible] high wheels, standard wagon [illegible] batch hopper, gives 25 to 30 more batches a day with same crew than barrow hopper.

Fig. 203

One bag mixer eleven foot capacity, built of steel, automatic speed with combination open or closed end hopper, light weight, yet extremely strong construction.

Tools for Concrete Workers

Steel Face Tampers

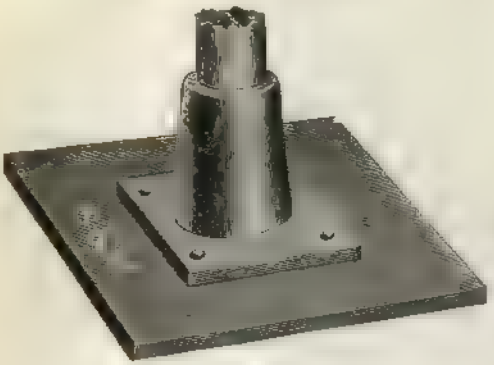


Fig. 294

A light weight tamper for use around buildings, strong and durable. Japanned to prevent rusting. 4-foot hardwood handles.

		Per Doz.
No. 68	Steel face, size, 8 x 8 in., wt., 15 lbs.	$22 50
No. 69	Steel face, size, 10 x 10 in., wt., 18 lbs.	24 00

Dirt Tampers

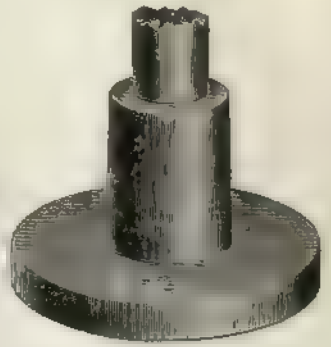


Fig. 295

Made of good grade cast iron, painted to prevent rusting. 4 foot hardwood handles.

No. 72. Round, 6-in. size, weight, 15 lbs. ..... per doz. $1 80

No. 73. Round, 7-in. size, weight, 17 lbs. ..... per doz. $19 20

Square Concrete Tampers

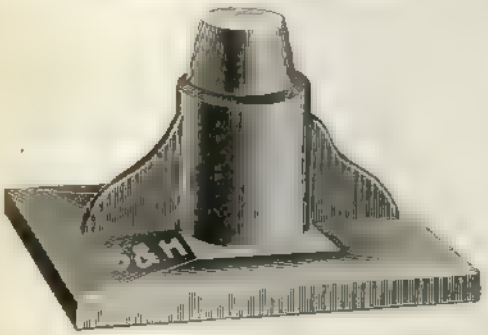


Fig. 296

Made of good grade of cast iron, japanned to prevent rusting, nicely finished. Furnished with 4-foot hardwood handles.

		Per Doz.
No. 13	Cast size, 6 x 8 inches; weight, 13 pounds	$15 60
No. 21	Cast size, 8 x 8 inches; weight, 19 pounds	18 00
No. 14	Cast size, 8 x 10 inches; weight, 23 pounds	21 60
No. 22	Cast size, 10 x 10 inches; weight, 27 pounds	24 00
No. 31	Cast size, 6 x 8 inches; weight, 12 pounds	12 00
No. 32	Cast size, 8 x 8 inches; weight, 13 pounds	15 40
No. 33	Cast size, 8 x 10 inches; weight, 15 pounds	06 80
No. 34	Cast size, 10 x 10 inches; weight, 17 pounds	19 20

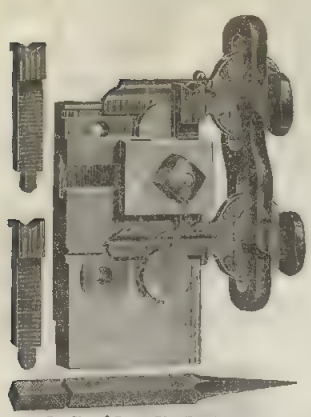
Adjustable Curb Clamp

Fig. 297

No. 55. Size, 12 inches per doz. $12 00

KEY CUTTING MACHINES

FOR CYLINDER KEYS ONLY



HARRISON

This Machine can be Clamped in Any Vise.

Made of Steel, Milled to its Shape, Making its Accuracy Positive.

An Accurate Key Cutting Machine at a Reasonable Price. The Gauge Pins are Tempered so Hard that they Cannot be Filed; Making it Impossible to Wear Them Out.

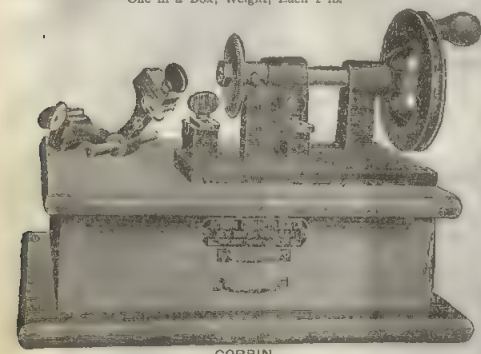
Cut Shows Gauge Pins Furnished with Each Machine, One for V Groove and One for Round Groove.

Each

No. MIP—1½x2¾ inches, Polished Steel, Brass Thumb Nuts for Holding Keys; Bow Clamp is made of Iron, Japanned, with Japanned Thumb Screws..... $7.40

FILES

No. HF—Special Diamond Files for Use with No. MIP Machine.. .90
One in a Box; Weight, Each 1 lb.



CORBIN

Handsomely Finished Hardwood Cabinet, 13½ inches Long; 12½ inches Wide and 4½ inches High, with Two Drawers Partitioned off to Keep Keys Separated. Can be Operated by Hand or by Belt. Will Accurately Cut Keys for all Pin Tumbler Locks.

Each

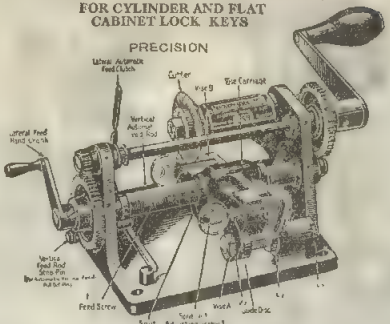
✣No. 9101—Complete Cabinet, Machine and Twelve Dozen Assorted Cylinder Key Blanks..... $60.00
One in a Case; Weight 35 lbs.

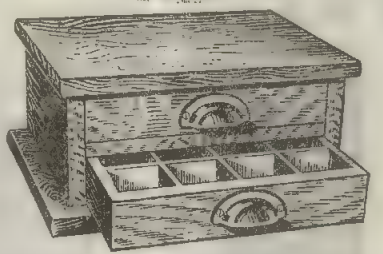
✣No. 9101½—Machine Only, Without Cabinet or Keys..... 50.00
One in a Case; Weight, Each 15 lbs.

✣No. EC9101—Extra Cutting Wheels for above Machine..... 4.00
One in a Box; Weight, Each 1 lb.

✣KEY CUTTING MACHINES

FOR CYLINDER AND FLAT CABINET LOCK KEYS





An Automatic Key Cutting Machine, Operated by Hand or Power Cuts an Exact Duplicate of Key without Injuring or Marring Pattern Key; All Types of Pin Tumbler Cylinder Keys Are Cut with the Same Cutter; the Sharpest V Shape Notches Are Cut as Easily as the Round U Shape Notches and without Changing Cutter. No Skilled Experience is Required; Misfits and Injured Originals Are Impossible with this Machine. Will Cut Keys at the Rate of One per Minute.

Will Duplicate Any Pin Cylinder Lock Key from Original or Pattern Key; Will Also Cut Flat Cabinet Lock and Other Keys Having Square Bottomed Bits. Occupies a Space Only 8x13 inches; Can Be Fastened to Counter, Work Bench or Key Blank Cabinet. Weight Packed for Shipment, 15 lbs.

Each

✣Precision Machine (without Cabinet) Complete with One Bevel Cutter and Guide Disc; One Square Edge Cutter and Guide Disc, and Hand Crank (or if so Specified Hand Crank with Power Wheel Will Be Furnished Instead of Hand Crank)..... $40 00

✣No. PKC Cabinet Only, with Drawers Partitioned Properly for Keys and Blanks; Holds 12 Dozen Keys; Size 13½x8½x6 inches; Weight Packed 15 lbs. 5 00
One in a Box

Hand Crank with Power Wheel

Extra Cutter

Extra Guide Disc

Each

✣Hand Cranks $2 00
✣Hand Cranks, with Power Wheel..... 2.00
✣Bevel Edge Cutters..... 4.00
✣Square Edge Cutters, 14, 15, 16, 17, 18, 19 or 20 Gauge.. 2.00
✣Bevel Edge Guide Discs ..... .50
✣Square Edge Guide Discs, 14, 15, 16, 17, 18, 19 or 20 Gauge .30
✣Complete Sets Square Edge Cutters with Discs, 6 Gauges of Each; Including All Gauges Except 18, which Is Provided with Machine..... 12 00

Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory.

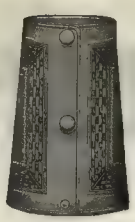
4280 CHAPAREJOS.

Per Pair Prices quoted on application

No. 1—Laced legs and fringed
No. 3—Laced legs, no fringe
No. 4—Welt seam, no fringe
No. 11—Genuine Angora front

Made to order only. Size of waist and length of inseam on leg must always be given

LEATHER CUFFS.



Hand stamped basket border, russet leather, with buttons.

Per Pair

No. 11-5—Length, 5 inches $2.50

No. 11-6—Length, 6 inches. 3.00

Raised stamped steer head, russet leather, with buttons.

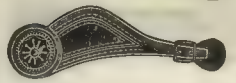
Per Pair

No. 13-6—Length, 6 inches $3.10

No. 13-7—Length, 7 inches. . 3.40

No. 14—Length, 7 inches. 5 inches diameter at large end to slip over coat sleeve 4.00

SPUR STRAPS.



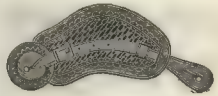
Per Dozen Pairs

No. 14X—Russet leather, with conchas.....$14.50

No. 13X—Same as No 14X, without conchas..... 11.50

Per Dozen Pairs

No. 17X—Russet leather, without conchas.....$20.00



Per Dozen Pairs

No. 45X—Russet leather, hand stamped, with conchas.....$31.20

LEATHER COLLARS.

Per Dozen

No. 080—Russet leather, raised and stamped, sizes 14 to 17.....$20.30

No. 090—Russet leather, plain, sizes 14 to 17 ..... 19.60

Per Pair

No. 15—Length, 7 inches; full hand stamped basket pattern, russet leather, with buttons $3.80

LARIATS.

Per Dozen

No. 15—Manilla, one black strand, brass honda $\frac{7}{16}$ inch by 40 feet....$53.50

DUMB BELLS

No. 15

National

Made from best selected maple, plain varnish finish. Each pair wrapped in tissue and tied. Weights given are each.

No. 15—Weight, lbs.	¼	½	¾	1	1½
Per pair	$0.40	.45	.50	.55	.60

Same as No. 15, only handsomely striped and with a high polished varnished finish.

National—Weight, lbs.	¼	½	¾	1
Per pair	$0.50	.55	.60	.65

Each Pair Wrapped in Tissue and Tied

Made from high-grade cast iron, smooth finish and japanned Weights given are for each

Iron—Weight, lbs.	1	2	3	4	5	6	8	10
Per pound	$0.16	.14	.12	.12	.12	.12	.12	.12

Packed as Ordered

INDIAN CLUBS

No. 10

National

Made from selected hard maple, plain varnish finish, with black knob and two black beaded rings. Weights given are for each club.

No. 10—Weight, lbs.	¼	½	¾	1	1½	2
Per pair	$0.45	.50	.55	.60	.70	

Each Pair Wrapped in Paper and Tied

Made from the best selected second growth hard maple and perfect in shape. They are finely polished, with ebonite center band and two gilt stripes. Weights given are for each club.

National—Weight, lbs.	¼	½	¾	1	1½	2
Per pair	$0.55	.60	.65	.70	.80	

Each Pair Wrapped in Paper and Tied

CROQUET SETS

Four Ball

Rock maple balls and stakes, painted and varnished. Plain beaded mallets with maple handles painted. Ten polished iron arches.
No. 6—Weight 12½ pounds.....Per set $1.40

Six Ball

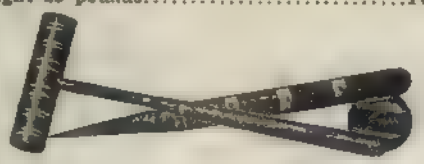
Same as No. 6, only six balls and mallets
No. 7—Weight 17½ pounds.....Per set $1.70

Eight Ball

Same as No. 6, only eight balls and mallets
No. 8—Weight 20 pounds.....Per set $2.00

Eight Ball

All parts varnished, mallets painted, two eight-colored stakes, ten polished arches.
No. XA—Weight 20 pounds.....Per set $2.50



Four Ball

Cheap professional. Full varnished and striped balls, handles and stakes, 8 in. long mallets and short handles. Painted and striped, galvanized arches.
No. 5—Weight 17 pounds.....Per set $2.50

Eight Ball

Same as No. 5, only eight balls and mallets
No. 5X—Weight 27½ pounds.....Per set $3.50

Eight Ball

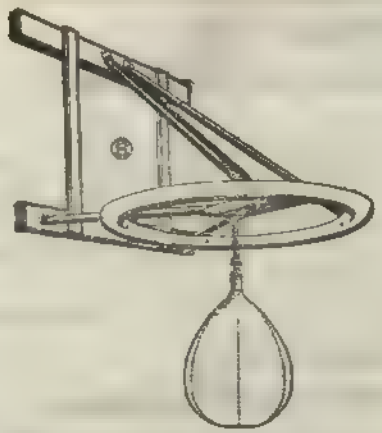
Turned by hand, eight finely painted mallets, 6 in. long, neatly turned handles, with nine fancy stripes, highly polished, three striped balls, two large-beaded, fancy-striped, eight-colored stakes, heavy galvanized arches.
No. 1—Weight 26½ pounds.....Per set $2.50

Eight Ball

Boxwood finish. All turned by hand, with genuine shellac finish, boxwood finish mallets, 9 inches long, boxwood finished balls and handles, two elegant large-beaded, fancy-striped and bronzed, four-colored stakes, with heavy galvanized arches.
No. AAA Weight 29 pounds.....Per set $6.00

Cut shows style of box in which all of our croquet sets are packed. Every set of croquet contains a book of instructions and rules. One set in a dovetailed, hinged cover wood box; three boxes in a crate.

STRIKING BAG PLATFORM



Pressed steel, finely enameled, has an entirely new frame construction, will not rattle or get out of order. It is strong, light, compact, finely finished and noiseless, and can be readily attached to any wall.
Platform complete, except bag

No. 1.....Each $14.00
One in a Crate

STRIKING BAG SWIVELS

Can be used in three positions—ceiling, wall and floor. The bag always swings in a perfect circle

Hart

No. 10X.....Per dozen $16.80
Twelfth Dozen in a Box

No. 335

No 309

The support is screwed firmly to ceiling, and the bag can be removed at will by simply untying the knot, the cord cannot cut. Fine japanned finish.

No. 335.....Per dozen $4.00
Twelfth Dozen in a Box

All of the friction bears directly on the ball, which moves at will in any direction with the swing of the bag, thus giving quick action and straight return. Nickel plated on copper

Ball Bearing

No. 309.....Per dozen $8.00
Twelfth Dozen in a Box

BOXING GLOVES

The Corbett is the highest quality of a boxing glove. Made of the finest imported glove kid, filled with superior curled hair, patent perspiration proof lining, patent laced wrist and patent adjustable palm grip, padded wrist, made in all weights for contests and exhibitions. For durability, shape, effectiveness, they are the best.

No. 10—8 ounces.....Per set $10.70
One Set (4) in a Box

Padded extra over the wrist and forearm, and will positively prevent soreness, which is the usual result when blocking a blow. Made of the finest brown tan leather on our celebrated Corbett pattern, patent adjustable palm grip, patent laced wrist, and has patent perspiration proof lining.

No. 120—8 ounces.....Per set $12.00
One Set (4) in a Box

Corbett pattern, made of finest quality craven tan kid, bag and palm. Olive palm grip, padded cuff, filled with the best quality curled hair. Has the new patent safety device.

No. 95—8 ounces.....Per set $10.00
One Set (4) in a Box

Corbett pattern, made of fine wine tan kid, olive tan palms, filled with good quality curled hair. Padded cuffs, patent laced wrist and adjustable palm grip.

No. 65—8 ounces.....Per set $7.75
One Set (4) in a Box

Corbett pattern, made of fine wine colored leather, brown tan palms, well stuffed with hair, full laced wrist.

No. D—8 ounces.....Per set $6.75
One Set (4) in a Box

Corbett pattern, made of fine wine colored leather, black palms, well stuffed with hair, patent laced wrist and palm grip.

No. AC.....Per set $5.50
One Set (4) in a Box

Made of olive tan leather, brown tan palms, well stuffed with hair, elastic wrist, palm grip.

No. A.....Per set $4.00
One Set (4) in a Box

COFFEE MILLS

PARKER

Varnished Dovetailed Hardwood Box; Lacquered Bronzed Top and Crank, Sunken Hopper with Slide Cover; Adjustable Chilled Iron Grinders.

VICTOR

Cast Iron Top; Hinged Door; Metal Cup; Capacity One Pound; with Grip Handle.

Per Dozen

No. 541 -Box 8 inches High; Base 5x5 inches; Weight per dozen 90 lbs... **$21.00**

Half Dozen in a Case

NATIONAL

Steel Top; Iron Hopper Cover and Grip Handle; Wood Drawer.

Per Dozen

No. 431—Box 4¾ inches High; Base 5x5 inches; Weight per dozen 96 lbs.... **$18 00**

Half Dozen in a Case

NATIONAL

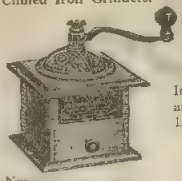
Steel Top; Iron Hopper Cover and Grip Handle; Wood Drawer.

Nos.	401	402
Height Box, inches	4¾	4¾
Base, inches	5¼x5¼	6¼x6¼
Diameter Hopper, inches	3⅝	4⅝
Weight per Dozen, lbs.	30	73
Per Dozen	$16.50	18.00

Half Dozen in a Case

PARKER

Varnished Dovetailed Hardwood Box; Lacquered Bronzed Top and Crank; Sunken Hopper with Slide Cover; Adjustable Chilled Iron Grinders.



NATIONAL

Wood Top; Cast Iron Hopper Cover and Crank; Wood Drawer.

Nos.	300	301
Height Box, inches	4	4¼
Base, inches	4x4½	4¼x5
Diameter Hopper, ins.	3¾	3½
Weight per dozen, lbs.	40	50
Per Dozen	$14 50	15 00

Half Dozen in a Case

Varnished Dovetailed Hardwood Box, Lacquered Bronzed Cast Iron Cover and Crank; Sunken Hopper; Adjustable Chilled Iron Grinders; Wood Drawer.

Per Dozen

No. 1010—Box 4¾ inches High; Base 6x6 inches; Weight per Dozen 50 lbs.. **$11 00**

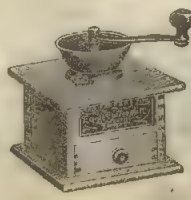
Half Dozen in a Case

Single Grinder, Top Adjustment Nut.

Per Dozen

No. 118 Box 4¾ inches High; Base 5x5 inches; Hopper 4x4½ inches; Weight per Dozen 80 lbs. **$9 00**

Half Dozen in a Case



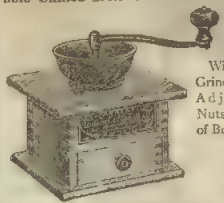
With Single Grinders; Two Adjustment Nuts on Top of Box

No.	104
Height Box, inches	3
Size of Base, inches	5x5
Size Hopper, inches	4x4
Weight per Dozen, lbs.	50
Per Dozen	$12 50

Half Dozen in a Case

PARKER

Varnished Dovetailed Hardwood Box; Japanned Iron Hopper and Crank; Adjustable Chilled Iron Grinders.



With Double Grinders; Two Adjustment Nuts on Top of Box.

Per Dozen

No. 25 Box 4¼ inches High; Base 6¼x6 inches; Hopper 5x2 inches; Weight per Dozen 76 lbs. **$22 00**

Half Dozen in a Case

CANISTER

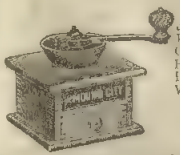
Varnished Dovetailed Hardwood Box, Lacquered Bronzed Side Handle, Crank and Casings. Wood Drawer; Sunken Hopper; Adjustable Chilled Iron Grinders. Holds One Pound of Coffee

Per Dozen

No. PB—Box 7⅝ inches High; Base 6⅝x6⅝ inches; Weight per Dozen 50 lbs... **$12.50**

Half Dozen in a Case

* MOUND CITY



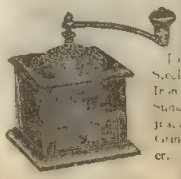
Varnished Dovetailed Hardwood Box, Japanned Cast Iron Raised Hopper; Chilled Iron Grinders; Wood Drawer.

MOUND CITY
TRADE MARK

Per Dozen

No. MC—Box 3¾ inches High; Base 6x6 inches; Weight per Dozen 30 lbs..... **$8.00**

Half Dozen in a Case



CROWN

Japanned Sheet Steel Box, Bronzed Iron Cover and Crank, Sunken Hopper; Adjustable Chilled Iron Grinders, Metal Drawer.

Per Dozen

No. 10C -Box 5 inches High; Base 6x5 inches, Weight per Dozen 28 lbs **$21 00**

Half Dozen in a Case

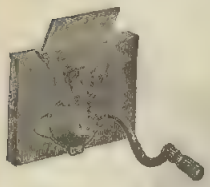
COFFEE MILLS

PARKER EAGLE

Black Japanned, Stamped Steel Hopper and Cover, Cast Iron Body and Crank. Adjustable Chilled Iron Grinders; Hardwood Back.

Nos.	50	60	70	80
Width Hopper, In	5	5	6½	7½
Depth Hopper, In	3½	4	4	5½
Back, Inches	6x8	7x9	7x10	9x12
Weight Dozen, Lbs.	40	50	55	100
Per Dozen	$10 00	11.00	13.50	21.00

Half Dozen in a Case



PARKER

Japanned Cast **Iron Hopper,** Body, Cover and Crank, Adjustable Chilled Iron **Grinders;** Wood Back.

Per Dozen

No. 1350—Hopper 4 inches Wide, 2¾ inches Deep; Back 7½x5½ inches; Weight per dozen 34 lbs..... $8 00

One Dozen in a Case

ROYAL

Japanned Cast Iron; Chilled Iron Grinders; Lock Nut Adjustment; Detachable Iron Cup; No Rivets or Bolts

Per Dozen

No. 77—Height 9 inches; Width 7½ inches; Diameter Hopper 4 inches; Depth 1¼ inches; Weight per dozen 42 lbs... $8 50

Half Dozen in a Case

Hopper Holds One Pound of Coffee

Varnished Wood Hopper with Glass Front and Japanned Cast Iron Slide Lid; Chilled Iron Grinders; Front Thumb Screw Adjustment; Japanned Cast Iron Body and Handle, Detachable Iron Cup.

Per Dozen

No. 250—Height 13 in.; Canister 7½x4½x3¾ in.; Wood Back 5x11¼ inches; Wt. per Dozen 50 lbs..... $13.50

Half Dozen in a Case

CRYSTAL

Hopper Holds One Pound of Coffee; Crystal Glass, Hopper and Cup, Metal Rimmed Glass Screw Cap; Black Enamelled Cast Iron Body and Crank, Cup Holder Adjustable for any Size Cup; Adjustable Hardened Cast Grinders; Air Tight Hopper

Per Dozen

No. C—Height 17½ inches; Diameter Hopper 4½ inches; Weight per dozen 90 lbs. $21 00

No. CGH—Extra Crystal Glass Hoppers, Weight per dozen 12 lbs. 5 00

One in a Box, Half Dozen in a Case

PARKER EAGLE

Japanned Tin Hopper, Holds One lb. of Coffee. Gold Striped; Japanned Cast Iron Body and Detachable Tin Cup; Adjustable Chilled Iron Grinders

Per Dozen

No. 444—Height 14½ inches; Hopper 4½ inches Wide, 7 inches Deep; Weight per dozen 48 lbs. $14 50

Half Dozen in a Case

REGAL

Black Japanned Cast Iron Body, Crank, Tin Hopper and Cup; Holds One Pound of Coffee, Screw Cap; Adjustable Chilled Iron Grinders.

Per Dozen

No. 44—Height 14 in., Hopper 4½ in Wide, 4½ in. Deep; Weight per Dozen 15 lbs. $14 00

Half Dozen in a Case

UNIVERSAL

Clamps to Table

Black Japanned Cast Iron Frame and Crank; Gilt lettering; Chilled Cast Iron Graders, Plain Bearings; Thumb Nut Adjustment; Will Granulate Coffee, Fine or Course. Capacity of Hopper 4 ozs.

Per Dozen

No. 0014—Height Above Table 7¾ inches, Height Over All 11¼ inches, Diameter Hopper 3½ inches; Weight each 5 lbs. $18 00

Six in a Case; Weight per Dozen 66 lbs.

ENTERPRISE

Cast Iron; Painted Black, Red and Gold Striped; Adjustable Chilled Grinders; Detachable Iron Cup, Side Adjustment; Hinged Case, Hopper Holds 4 ounces.

Each

No. 00—Height 9 inches; Width 5½ inches, Hopper 4 inches Wide, 3½ inches Deep; Weight per dozen 62 lbs.. $3 60

Twelve in a Case

Clamps to Table

Cast Iron, Painted Black, Red and Gold **Striped;** Hardened Cast Iron Grinders **Plain Bearings;** Thumb Nut Adjustment; Hopper Holds 4 ounces.

Each

No. 0—Height Above Table 9½ inches, Over All 13½ inches, Hopper 3½x4 inches, Weight each 8 lbs. $4 00

Twelve in a Case

Weight per Case 86 lbs.

With Base

Cast Iron, Painted Black, Red and Gold Striped Hardened Cast Iron Graders; Plain Bearings; Thumb Nut Adjustment; Hopper Holds 4 ounces.

Each

No. 1—Height 12½ inches, Hopper 3½x4 inches, Hardwood Base 6x6½ inches; with Sliding Cover and Drawer; Weight Each 10 lbs. $6 00

Twelve in a Case

Weight per Case 135 lbs.

Curtis Model B Air Compressors

Fully Enclosed Controlled-Splash Oiling

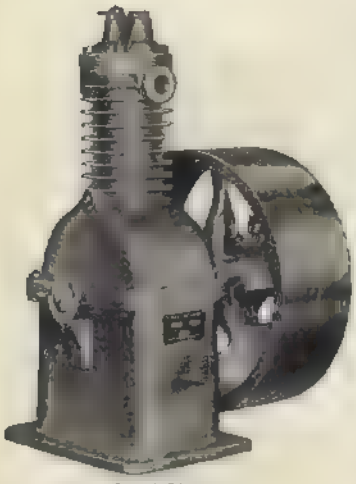


Fig. 1474

Model "B" compressors differ from our Model "A" compressors principally in the cylinder oiling feature, the Model "B" having a permanently regulated feed instead of a regulatable sight feed as the Model "A". The heads, valves, connecting rods, pistons, crankshafts and other features are exactly alike in both models The difference, however, simplifies the manufacture and reduces the cost and therefore, the selling price of the Model "B" is lower than the Model "A". The Model "B" is air cooled only and, as will be noted from the table, includes smaller size machines than the Model "A" line. These compressors are particularly adapted to such application as automobile garage and filling station service, pneumatic water systems, gas engine starting, air brush work, or anywhere where a comparatively small amount of air is required intermittently at high pressure and where a less expensive machine is desired than the Model "A"

A special bulletin on Model "B" compressor and outfits will be sent on request.

Curtis Model "B" Compressor—Data

Bore and Stroke	Standard Speed	Cubic Feet Capacity	Horsepower at 100 Pounds	Horsepower at 200 pounds	Maximum Speed	Cubic Feet Capacity	H. P. at 100 Lbs.	Size Pulley	Shipping Weight
1⅞x2	500	1.2	.29	.31	700	1.68	.44	9x1¾	40
2⅛x2½	400	1.8	.36	.47	600	2.70	.54	11x2⅜	60
2½x3	350	2.99	.60	.78	550	4.7	.95	12x2⅜	100
3 x3½	300	4.32	.87	1.14	500	7.20	1.45	14x2⅜	125
4½x4½	250	10.4	2.09	2.75	400	16.5	3.34	22x4½	385

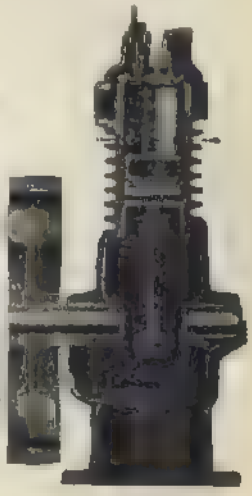


Fig. 1475

Curtis Model "A" Air Compressors

Fig 1476

Controlled Splash, Oiling Regulatable, Sight Feed

Design: The design of the Curtis compressor is the result of, and has been proven by, over twenty-five years of experience, featuring simplicity, durability, economy and efficiency. It has 80 per cent more cooling surface than any double acting compressor of the same capacity. The heads and valves being water cooled as well as the cylinder walls, increase the volumetric efficiency. The machines are self-contained, considerably heavier than other compressors of similar capacity, assuring freedom from vibration, admitting of light foundations and withstanding the excessive strains due to speed and high pressure. The automatic unloader makes the Curtis compressor especially economical and desirable for intermittent service. The controlled-splash oiling system with its regulatable sight feed of the oil fed to the cylinder, its consequent saving in oil and attention is another feature found only in the Curtis compressor. The discharge for the water circulation is taken from the heads at the other words at the highest point of circulation so that there is never any possibility of the hot water becoming pocketed or trapped in the heads, and there is no possibility of water circulating without passing through the heads.

Fig 1477

Table of Curtis Model "A" Compressors

Compressor		R P M		Capacity Cubic Feet Free Air		Horse Power at Standard and Maximum Speeds				Shipping Weight Domestic Pounds
Bore and Stroke Inches	Single or Double Cyl.	Std	Max	Std Speed	Max Speed	80 Pound Pressure		100 Pound Pressure	150 Pound Pressure	
4½ x 4½	Single	200	400	8 3	16 8	4 58- 3 16		1 67- 3 36	2 00	385
6 x 6	Single	175	300	17 2	29 5	2 58- 5 69		3 45- 5 2	4 15	7
6 x 6	Double	175	300	34 4	59 0	6 55-1 2		6 82-1	8 3	1100
7 x 7	Double	160	250	48 2	78 0	9 5 -14 9		10 0 -15 7	12. ...	1700
8 x 8	Double	160	225	74 4	104 5	14 2 -19 0		15 0 21 0	18	2100
9 x 9	Double	150	210	100 0	139	20 2 -26 5		21 3 28 3		400
10 x 0	Double	150	200	145 5	182	27 7 -34 6		29 3 38 6		4000
12 x12	Double	150	150	236	298	45 -57		47 4 -60		6200

MECHANICAL TOYS
FRICTION POWER
DAYTON

Touring Car; Enameled White; Gold Bronzed and Pink Trimmings; Gold Bronzed Wheels; Enameled Removable Chauffeur and Passenger; Double Friction Motor, Runs Forward or Backward.

Per Dozen

No. 403—Length 13¼ inches; Width 4¾ inches; Height 7¼ inches; Weight per Dozen, 36 lbs **$23 00**

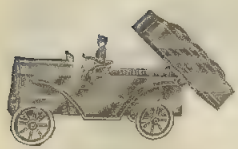
Two Dozen in a Package

Parcel Post Auto; Large Compartment in Front of Driver which May Be Filled with Small Articles; Enameled Yellow; Blue Fenders, Radiator and Seats; Gold Bronzed Wheels and Trimmings; Removable Enameled Chauffeur; Double Friction Motor, Runs Forward or Backward.

Per Dozen

No. 406—Length 12¼ inches; Width 4¾ inches; Height 6 inches; Weight per Dozen 26 lbs. **$16 00**

Two Dozen in a Package



Automobile Dray, with Dumping Hopper; Enameled Yellow, with Red Seat and Fenders; Gold Bronzed Wheels and Trimmings; Box or Tray Dumps Contents When Lever Releases Lock; Front Wheels Turn to Run in a Circle; Removable Enameled Chauffeur; Complete with Three Striped Turned Hardwood Barrels; Double Friction Motor; Runs Forward or Backward.

Per Dozen

No. 413—Length 13¼ inches; Width 4¾ inches; Height 6 inches; Weight per Dozen 30 lbs. **$16.00**

Two Dozen in a Package

COASTER

One of the Swiftest and Easiest Running Toys Made; Has a Large Artistically Designed Figure of a Boy on the Sled, and it Will Not Only Coast Down, But Also Run Up Hill. Strikingly Enameled in Brilliant Colors.

Per Dozen

No. 412—Length 9 inches; Width 2¼ inches; Height 5¾ inches; Weight Each 1 lb. **$10 00**

Two Dozen in a Carton

MECHANICAL TOYS
FRICTION POWER
DAYTON

TRICKY DUCK

One of the Toys which Has Established its Place Amongst the Others of Our Line as a Staple Article. With Wings Extended in a Stationary Position, it Will Run Easier, Farther and Faster Than Ever Before, Backward or Forward in a Large or Very Small Circle. Handsomely Finished in Bright Colors.

Per Dozen

No. 410—Length 8½ inches; Width 4 inches; Height 7¼ inches; Weight Each 1¼ lbs. **$11 00**

Two Dozen in a Carton

SOME MULE

The Mule's Head is Geared to Front Wheels, so that it Nods with Each Step, and Pulls the Reins, Adding Materially to the Novelty of the Toy.

The Man Can be Removed and Placed on the Mule's Back, if Desired. This Toy is Equipped with a Double Friction Motor, and Will Travel Either Forward or Backward.

Finished in Dapple Gray, Trimmed in Red and Gold.

Per Dozen

No. 408—Length 10¾ inches; Width 3 inches; Height 6½ inches; Weight each 1½ lbs. **$11.00**

Two Dozen in a Carton

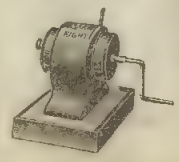
ELEPHANT

The Man Seated Behind the Elephant Can be Removed and Placed on the Elephant's Head or Back, Similar to the Way He Usually Rides in a Regular Circus Parade. The Head of the Elephant is Arranged so That it Moves when the Toy is in Motion. This Toy is Equipped with Our Full Friction Power and Will Travel Either Forward or Backward. Painted Dark Gray, Trimmings Red, Yellow and Red.

Per Dozen

No. 407—Length 10¾ inches; Width 3 inches; Height 6¾ inches; Weight Each 1¼ lbs. **$11.00**

Two Dozen in a Carton



REVERSIBLE MOTOR

Powerful Motor, which, by Turning a Crank Shaft, Starts in Motion a Perfectly Balanced Fly Wheel. Power Can be Shifted to Three Positions, Forward, to a Stop, and Reverse, and Can Be Run at any Rate of Speed Desired. This Motor Does Not Require Batteries or Electricity, the First Cost Being the Only Cost. It Is Fitted with a Suitable Base so That it Can Be Used with Any Construction Toys Now on the Market Enameled Bright Red, Yellow Base, Light Blue Striped.

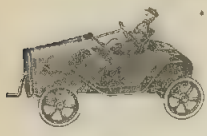
Per Dozen

No. 318—Length 6½ inches; Width 3 inches; Height 4¼ inches; Weight Each 1 lb. **$20 00**

Two Dozen in a Carton

MECHANICAL TOYS

CLOCK SPRING MOTOR



AUTOMOBILE

Stamped Steel; Red Enameled, with Gold Bronzed Fenders, Wheel Spokes and Decorations, Strong Clock Works Motor, Winds Up by Turning Starting Crank; Hollow Formed Wheels; with Bright Enameled Driver.

Per Dozen

No. 420—Length 8 inches; Weight per Dozen, 12½ lbs.....**$20 00**

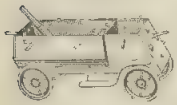
Two Dozen in a Package

AUTOMOBILE

Stamped Steel, Enameled Bright Blue, Red Gas Tank and Radiator; Gold Bronzed Fenders, Tires and Detachable Spare Tire; with Chauffeur and Passenger Enameled in Bright Colors; Strong Clock Works Motor Which Winds Up by Turning Starting Crank; Hollow Formed Wheels. Per Dozen

No. 416—Length 12¾ inches; Weight per Dozen 22 lbs.....**$20.00**

Two Dozen in a Package



ARMORED MOTOR TRUCK

Stamped Steel, Body Gray Enameled; Yellow Fenders and Wheels, Imitation Rubber Tires; Equipped with Black Imitation Cannon and Aeroplane Gun.

Per Dozen

No. 2028—Length 17 inches; Width 6¾ inches; Height 7½ inches; Diameter of Wheels 3¾ inches; Weight Each 3½ lbs.....**$48 00**

Twelfth Dozen in a Box

AUTO ROADSTER

An Exact Replica of a Real Automobile

Stamped Steel, Body Brown Enameled, Red Seats, Red Enameled Wheels, Imitation Rubber Tires; Gold Bronzed Radiator and Steering Wheel; Patent Bumpers.

Per Dozen

No. 2025 Length 15 inches; Width 6¼ inches; Height 6½ inches; Diameter of Wheels 3¾ inches; Weight 2¾ lbs.....**$27 00**

Twelfth Dozen in a Box

AUTO TRUCK

Stamped Steel, Body Finished with Bright Blue Enamel; Red Seat and Frame; Bright Yellow Fenders, Gold Bronzed Radiator and Steering Wheel; Imitation Rubber Tired Wheels, Patent Bumpers. Per Dozen

No. 710—Length 10 inches; Width 6 inches; Height 6¾ inches. Diameter of Wheels 3¾ inches; Weight 2¾ lbs.....**$18.00**

Twelfth Dozen in a Box

ARMORED AUTOMOBILE

Stamped Steel, Body Gray Enameled; Bright Yellow Fenders and Wheels, Equipped with Imitation Cannon and Aeroplane Gun.

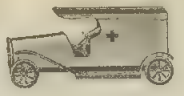
Per Dozen

No. 2027—Length 10½ inches, Width 4 inches; Height 4¾ inches; Weight Each 1 lbs.....**$13 50**

Twelfth Dozen in a Box

MECHANICAL TOYS

CLOCK SPRING MOTOR



AUTO AMBULANCE

Stamped Steel, Body White Enameled; Bright Yellow Fenders and Wheels.

Per Dozen

No. 2026—Length 10⅛ inches; Width 4 inches; Height 4¾ inches; Weight 1¼ lbs.....**$13.50**

Twelfth Dozen in a Box

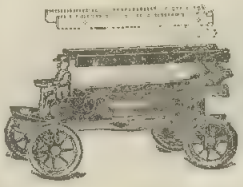
SPECIAL DELIVERY AUTO

Stamped Steel, Body Finished with bright Blue Enamel; Yellow Fenders and Wheels.

Per Dozen

No. 2022—Length 10⅛ inches; Width 4¼ inches; Height 4 inches; Weight 1¼ lbs **$12 00**

Twelfth Dozen in a Box



AUTOMOBILE LADDER TRUCK

Heavy Stamped Steel; Enameled in Bright Yellow and Red; Clock Works Motor; Ladder Equipped with Contrivance and Spring so that at Movement of Lever, Sections Automatically Form into a Solid Ladder Standing Erect on the Car.

Per Dozen

No. 1424—Length 9¾ inches; Height 4¾ inches; Height with Ladders Extended 15¾ inches; Weight per Dozen 10 lbs.....**$16 00**

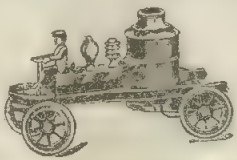
One in a Package

AUTO RACER

Heavy Stamped Steel; Enameled Gray with Red Wheels and Red and Gold Trimmings, Clock Works Motor; Steering Front Wheels; Very Durable and Attractive. Per Dozen

No. 1426—Length 9 inches; Height 4¼ inches; Weight per Dozen 11 lbs.....**$16 00**

One in a Package



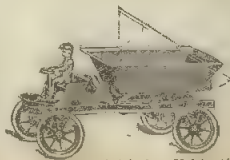
AUTOMOBILE FIRE ENGINE

Heavy Stamped Steel; Enameled Red with Gold Bronzed Trimmings, and Bright Yellow Wheels; Clock Works Motor; Steering Front Wheels; Very Durable and Attractive.

Per Dozen

No. 1425—Length 9¼ inches; Height 4 inches; Weight per Dozen 10 lbs..... **$16 00**

One in a Package



AUTOMOBILE TRUCK

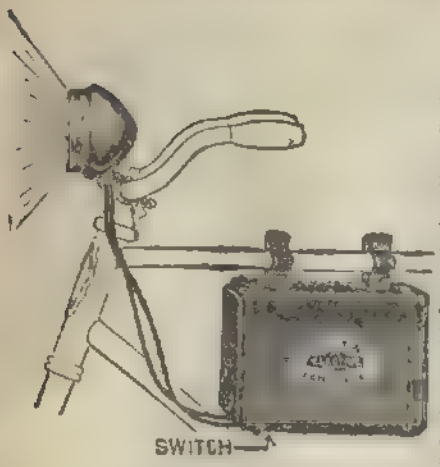
With Dumping Hopper; Heavy Stamped Steel, Enameled Blue with Red Wheels; Clock Works Motor; Steering Front Wheels; Very Durable and Attractive.

Per Dozen

No. 1427—Length 9 inches; Height 4½ inches; Weight per Dozen 11 lbs.....**$16.00**

One in a Package

BICYCLE LIGHTING OUTFITS



DELTA TWO CELL

This Light is of a Graceful Size and Shape. Contains a Special polished Reflector, designed to throw a powerful Searchlight.

Contains a Special Delta bulb carefully tested before being Shipped.

It has a Special Headlight clamp designed to hold the light Steady.

An ordinary wire connection eliminating the troublesome Edi-swan Screw connection. Special Switch has been placed on battery case to eliminate all mechanism on the lamp proper. Case holds two batteries.

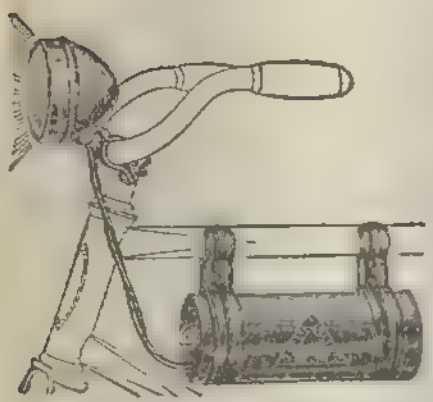
Per Dozen

No. 280—Lens about 3 inches in Diameter; Extra Heavy; Weight per Dozen 21 lbs. **$36 00**

One in a Carton

No. 280B—Extra Bulbs for Bicycle Lamps No. 280. . . . . **6.00**

Loose

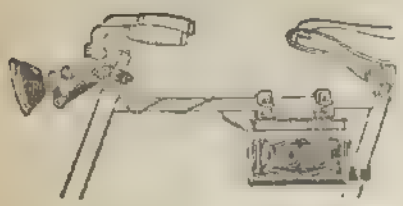


Same As No. 280 Except has a one cell battery case.

Per Dozen

No. 270—3 inch Lens, Extra Heavy. **$30 00**
Weight per Dozen 21 lbs.
One in a Carton

No. 270B—Extra Bulbs for Bicycle Lamp No. 270. . . . . **4.80**



"OLD SOL" TWO CELL

Large Attractive Headlight with Bracket for Handle Bar. Front of Lamp 5 inches in Diameter. Silvered Reflector. Black Enameled Body, 24 inch Cable with Copper Terminals attached to off-and-on switch plug at Rear of Lamp. Bulb-Edi-swan base 2.8 volt 2 C. P. with highly efficient Tungsten filament. Battery Box arranged for two dry cells and supplied with straps Black enameled.

Per Dozen

No. 40—Complete with Light, Bulb and Battery Case, but not Dry Cells; Weight 2 lbs. **$32 00**

One in a Carton

No. 40B—Extra Bulbs for No. 40 Lamp. **6.00**

Loose

COMBINATION HAND AND BICYCLE LAMP

Designed for use as a Hand Lampor a Bicycle Lamp; Each Lamp comes equipped with a Hand Bracket and an Attachment to be fastened to Bracket of the Bicycle or Motorcycle; Produces a Powerful Light and Eliminates all the Troubles of an Oil or Carbide Lamp; Mechanically Perfect and Thoroughly well made, producing a striking and pleasing appearance.

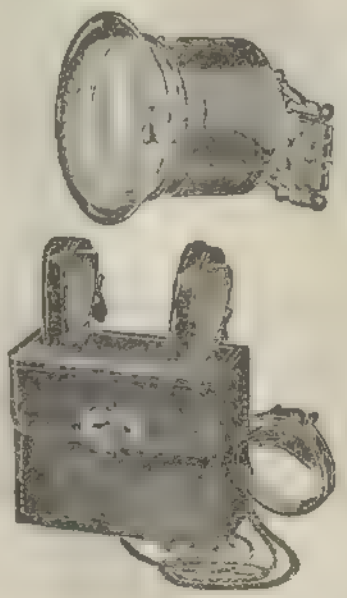
Stamped Steel Case, Black Japanned; Nickel Platedd Trimmings, Provided with Patent Screw to Secure Permanent Light; Extra Large Convex Ground Lens.

Per 100

No. 60—Size of Case 4¼x2½x1 inch; 2½ inch Lens; 3½ Volt Lamp; Takes No. 000B Battery and No. 1190 Bulb; Weight per 100, 58-1/3 lbs. **$192.00**

One in a Box

BICYCLE OR MOTORCYCLE LAMPS



Suitable for the Rider of Bicycle or Motorcycle Lamp of High [illegible], Mechanically Perfect and Thoroughly Well Made the Well P[illegible] Very Pleasing and Symmetrical; Appearance; [illegible] Other Battery Holder and Connecting Wire with Plug but Without Battery.

Finely Finished Black Japanned Stamped Steel Case; Nickel Plated Aluminum Reflector; Nickel Plated Brass Rim; Stamped Steel Bracket; Diameter of Case 6 inches; Depth 2 inches; 3¼ inch Finely Ground Convex Lens; Provided with Patent Screw to Secure Permanent Light.

Per 100

No. 70—3½ Volt Lamp; Takes No. 70B Battery and No. 1193 Bulb; Weight per Hundred 90 Lbs. **$396 00**

One in a Carton

FLASH LIGHTS

★NORLEIGH DIAMOND

Furnished with Tungsten Filament Bulbs and Powerful Reflectors, but Without Batteries.

VEST POCKET STYLE: METAL CONTACT WITH PATENT SLIDE LOCK

Side Opening Case

Brass Case, Heavily Nickel Plated and Polished; Metal Contact Button with Patent Slide Lock to secure permanent Light when desired. For general use, can be carried in Vest Pocket or Hand Bag.

Per 100

No. 00—Size 2¾x1⅛x½ inches; **2½ Volt Lamp;** Takes No. 0B Battery and No. 1180 Bulb; Weight per 100, 11 lbs . **$84 00**

No. 01—Size 3⅛x1⅜ inches; **2½ Volt Lamp;** Takes No. 1B Battery and No. 118; Bulb; Weight per 100, 12 lbs..... **$4.00**

One in a Box; One Dozen in a Carton

Side Opening Case

Brass Case, Heavily Nickel Plated and Polished; Metal Contact Button with Patent Slide Lock to secure Permanent Light when desired. For general use; can be carried in Vest Pocket or Hand Bag.

Per 100

No. 02—Size 3⅛x2⅛x¾ inches; **3½ Volt Lamp;** Takes No. 2B Battery and No. 1181 Bulb; Weight per 100, 18 lbs.....**$108.00**

One in a Box; One Dozen in a Carton

Side Opening Case

Brass Case, Heavily Nickel Plated and Polished; Metal Contact Button with Patent Slide Lock to secure permanent Light when desired. For general use. Can be carried in Vest Pocket or Hand Bag.

Per 100

No. 03—Size 3¼x2⅜ inches; **3½ Volt Lamp;** Takes No. 000B Battery and No. 1190 Bulb; Weight per 100, 36 lbs. **$138 00**

One in a Box; One Dozen in a Carton

This cut shows internal construction of Nos. 00, 01, 02 and 03 Flash Lights.

FLASH LIGHT LANTERNS

HANDY

Especially Designed for use around the House, Stable and Garage, although will be found of great Benefit on many other numerous occasions; equipped with a Steel Wire Handle for Carrying; Can also be Hung up so that the User can have a Permanent Light and at the same time have both Hands free to work with.

Case made of Hammered Stamped Steel; Gun Metal Finish; Nickel Plated Brass Trimmings; Provided with Patent Lever to Secure Permanent Light; Heavy Convex Bullseye Lens.

Per 100

No. 50—Size 3⅛x2¾x1¼ inches; **3½ Volt Lamp;** Takes No. 000B Battery and No. 1190 Bulb; Weight per 100, 41-2 3 lbs...**$138 00**

One in a Box

DELTA

Designed for use as a Hand Lamp or Carrying Lantern. Battery Case is made of Stamped Steel, Black Japanned and Takes two No. 6 Standard Dry Cells; Nickel Plated Trimmings; Folding Wire Handles on Back; Removable Wire Bail on Top; Spring Catch Button on Back; Case Opens at Front by Lever; Reflector Focuses by Thumb Screw with Heavy Convex Bullseye Lens.

Per Dozen

No. 1D—Size 7½ inches high; 5½ inches wide; 2¾ inches deep; Weight per Dozen 24 lbs. **$36 00**

One in a Box

EXTRA BULBS Per Dozen

No. 1DB—Extra Bulbs for No. 1D Lamp **$4 00**

Loose

BICYCLE LIGHTING OUTFITS

For Bicycles, Motorcycles, Automobiles and Boats. They Operate on Regular 6 inch Round Dry Cell Batteries, Illuminating the Road ahead like a Big Automobile Head Light, throwing a Strong Steady Light from 200 to 300 feet. Made of Highest Quality Materials, very Effective and Lasting Quality. Easily Attached to any Bicycle Frame.

Cold Rolled Steel Battery Case 7⅝x [illegible]x3 inches; Black Gloss Baked Enamel Finish; Complete with Clamps and Strap for Fastening to Bicycle Frame; Drawn Brass Head Light Highly Nickel Plated and Polished; Nickel Plated and Polished Reflector with Special Glass Lens; Diameter of Lens 4¾ inches; Special Tungsten Bulb about Four Candle power; Two Conductor Wires with Plain Battery Connectors at One End and Special Edi-Swan Connecting Socket Switch at other End for Turning Light on or Off. This Type of Plug is held firmly together by means of Spring which positively prevents them from working loose

Per Dozen

No. 53—Without Batteries; Weight each 2 lbs.; Weight per Dozen 26 lbs.....**$54 00**

Twelfth Dozen in a Carton

EXTRA BULBS Per Dozen

No. 53B—Extra Bulbs for No. 53 Bicycle Lamps **$6 00**

Loose

TASSELS.

HAIR.

Per Pair

No. 2—Hair tassel, 12 inch; red, green or blue **$0.80**
No. 3—Hair tassel; 14 inch; red, green or blue. **.90**
No. 4—Hair tassel; 16 inch; red, green or blue. **1.00**

PLUMES.

HAIR.

Per Pair

No. 16—Rosette plume; green or yellow. . . **$1.40**
In bulk.

ROSETTES.

HAIR.

Per Pair

No. 35—Hair rosette; red. **$0.70**
In bulk.

INITIAL.

Per Dozen Pairs

No. 5—Reflecting initial rosettes. **$3.50**
One dozen pair on a card

JONES SOLID LOOP.

Per Gross

No. 108—1⅛ inch, nickel or brass **$18.00**
No. 119—1½ inch, nickel or brass **18.00**
Quarter gross in a box.

No. 108. No. 119.

RIVETED LOOP.

No. 495.

No. 512.

No. 550.

Per Gross

No. 495—1⅛ inch brass **$10.60**
No. 512—1¾ inch nickel or brass **9.40**
No. 550—1¾ inch, nickel or brass **13.00**
No. 550—2 inch; nickel or brass **16.60**
No. 550—2¼ inch, nickel or brass **21.40**

No. 439.

No. 449.

No. 2235.

Per Gross

No. 439—2 inch; nickel or brass; riveted loop **$16.60**
No. 449—2¼ inch; nickel or brass; riveted loop . . . **21.40**
No. 2235—2¼ inch; nickel or brass. **21.40**
Quarter gross in a box.

ROSETTE ASSORTMENTS.

FANCY GLASS, ON CARDS.

Per Card

Emblem—Glass, Masonic, MW, AOUW, KP and IOOF (one pair on card) **$0.54**
No. 10—Oval glass, deep brass bound, assorted animal heads, very fancy (one dozen on card) **4.20**

INLAID, ON CARDS.

Per Card

No. 1000—Nickel and brass assorted on each card; 2¼ inch; enamel inlaid; one dozen on a card **$3.00**

ORNAMENTS.

STAR CIRCLE.

NICKEL OR BRASS.

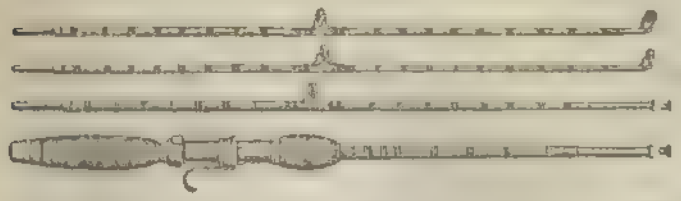
Size, inches. 3
Per dozen **$2.20**
One-sixth gross in a box.

PLAIN BLOCK LETTERS.

NICKEL OR BRASS.

Size, inches	1	1¼	1½
Per dozen	**$1.92**	**2.48**	**3.10**

FISHING RODS
★DIAMOND BRAND

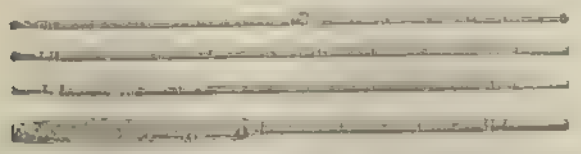


★ULTRA CASTING
Split Bamboo

Per Dozen

No. UC—Three Piece and Extra Tip; Cork Butt and Forward Grip; Brass Reel Seat and Finger Hook on Band; Brass Ferrules and Mountings; All Nickel Plated and Polished; Solid Reel Plate Above Grip; **All Casting Guides German Silver and Agate; German Silver and Agate Angle Guide;** Metal Plugs; Wound with Red and Black Silk in Clusters; Transparent Varnish; Length 4½, 5, 5½ Feet; Weights 8 to 10 ozs.; Shipping Weight per Dozen 8 lbs..... **$240 00**

Twelfth Dozen in a Partition Cloth Bag



TRUNK BAIT Split Bamboo

Per Dozen

No. TSB—Trunk Rod, Four Piece; Short Cork Grip; Brass Reel Seat, Ferrules and Mountings, all Nickel Plated and Polished, Solid Reel Plate above Grip, **Spiral Tip Guides;** One Ring Heavy Bait Tip, Metal Plugs; Wound with Red and Black Silk in Clusters and at Intervals; Varnished; Length 6 feet, Weight 8 to 10 ozs., Shipping Weight per Dozen 12 lbs..... **$48 00**

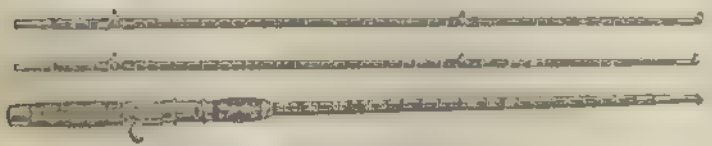
Twelfth Dozen on a Plain Grooved Wood Form in a Cloth Bag

POCKET BAIT
Split Bamboo

Per Dozen

No. PB—Seven Piece and Extra Tip; Short Cork Grip; Solid Reel Seat above Hand; Reinforced Straight Ferrules with Brass Plugs; Full Nickel Plated Mountings; Snake Guides; One Extra Ring Tip and One Extra Tip; Wound with Red and Black Silk in Clusters and at Intervals; Varnished; Length 7 feet; Weight 6 ozs.; Shipping Weight per Dozen 6 lbs. **$96.00**

Twelfth Dozen in a Partition Cloth Bag



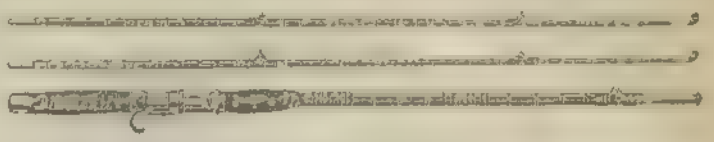
Split Bamboo Casting

Per Dozen

No. BC58—Two Piece and Extra Tip; Cork Butt and Forward Grip; Nickel Plated and Polished, Brass Reel Seat and Finger Hook and Reel Band, handsomely Knurled, Nickel Plated Brass Shoulder Ferrules with reinforced openings; **German Silver and Agate Casting** Guides and Tips, Metal Plugs for Ferrules, Wound with Black and White Mixed Cable Silk Windings at Close intervals with Solid Red Silk Windings interspersed, Transparent Varnish; Length 4½, 5, and 5½ Feet; Weights 8 to 10 ozs.; Shipping Weight per Dozen 8 lbs. **$240 00**

One in a Partition Cloth Bag

FISHING RODS
★DIAMOND BRAND

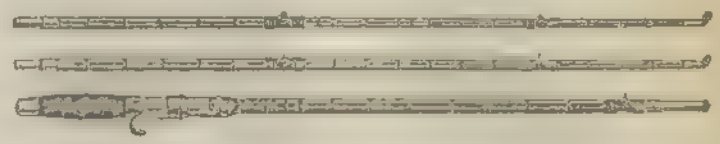


Split Bamboo Casting

Per Dozen

No. BC42—Two Piece and Extra Tip; Cork Butt and Forward Grip; Nickel Plated and Polished Brass Reel Seat and Finger Hook on Reel Band; Nickel Plated Brass Shoulder Ferrules with reinforced openings; First Guide and Tips **German Silver and Agate Casting;** balance of Guides German Silver Casting without Agates; Metal Plugs for Ferrules; Wound with Red and Black Silk in heavy Clusters at close intervals; Transparent Varnish; Lengths 4½, 5 and 5½ feet; Weights 8 to 10 ozs., Shipping Weight per Dozen 8 lbs..... **$168.00**

One in a Partition Cloth Bag

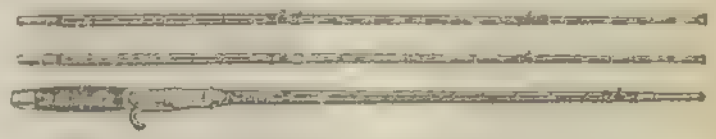


Split Bamboo Casting

Per Dozen

No. BC32—Two Piece and Extra Tip; Cork Grip; Nickel Plated Brass Reel Seat and Finger Hook on Reel Band; Nickel Plated Brass Shoulder Ferrules reinforced at openings and with Metal Plugs; **First Guide and Tips, German Silver and Agate Casting,** balance of Guides German Silver Casting without Agates; wound with Black and White mixed **Cable Silk** windings interspersed with Red Silk windings; Transparent Varnish; Lengths 4½, 5 and 5½ feet; Weights 8 to 10 ozs.; Shipping weight per Dozen 8 lbs..... **$114 00**

One in a Partition Cloth Bag

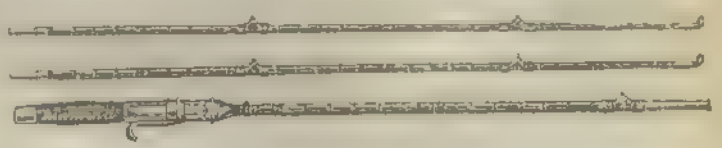


Split Bamboo Casting

Per Dozen

No. BC22—Two Piece and Extra Tip; Cork Grip, Nickel Plated Brass Reel Seat and Finger Hook on Reel Band; Nickel Plated Brass Reinforced Shoulder Ferrules with Metal Plugs; German Silver Spiral Casting Guides and large One-Ring Tip; Wound with Red and Green Silk windings; Transparent Varnish; lengths 4½, 5 and 5½ feet; Weights 8 to 10 ozs.; Shipping weight per Dozen 8 lbs..... **$90 00**

One in a Partition Cloth Bag



Split Bamboo Casting

Per Dozen

No. BC12—Two Piece and Extra Tip; Cork Grip; Nickel Plated Brass Reel Seat and Finger Hook on Reel Band; Nickel Plated Brass Reinforced Shoulder Ferrules with Metal Plugs; German Silver Spiral Casting Guides and Tips; Wound with Red, Black and Green Silk; Transparent Varnish; Lengths 4½, 5 and 5½ Feet; Weights 8 to 10 ozs.; Shipping weight per Dozen 8 lbs. **$66 00**

One in a Partition Cloth Bag

FISHING RODS

SPLIT BAMBOO BAIT CASTING

HEDDONS DOWAGIAC

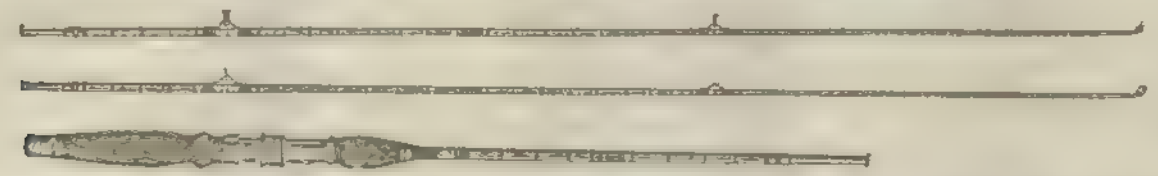
Two Piece Construction, with Heddon Original Short Butt and Long Tip Design which Greatly Increases Casting Force and Reduces to Minimum the Liability of Breakage

Two Piece Construction, with Heddon Original Short Butt and Long Tip Design which Greatly Increases Casting Force and Reduces Minimum the Liability of Breakage

Per Dozen

No. H10—Finest Selected Split Bamboo with Extra Tip; Solid Satin Cork Butt and Forward Grips of Special Heddon Design; Extra Heavy Genuine Silver Metal Hood at Rear; Reel Seat and Heddon Locking Reel Band; Agate Tip and Agate Guides; All Metal Trimmings Oxidized; Fine Weights at Close Intervals with Six Varieties in a Box of Proper Design; Three Colors Wrapping, Four Coats Finest Delicate Waterproof Varnish; Lengths 4½, 5 and 5½ Feet, Weights to Suit Sizes; Shipping Weight per Dozen 6 lbs. **$102 00**

Twelfth Dozen in a Partitioned Canvas Bag in a Waterproof Leatherette Case



Per Dozen

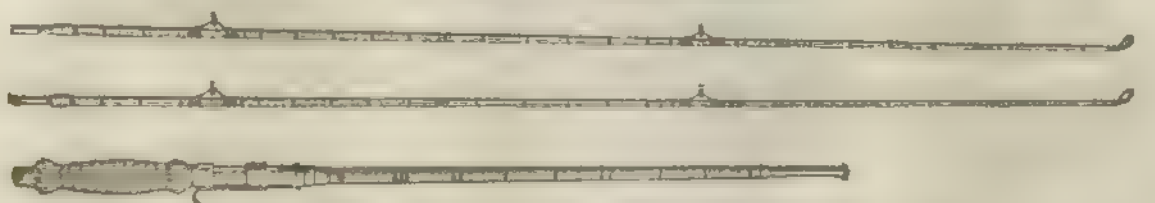
No. H6—Selected Split Bamboo with Extra Tip; Split Bamboo Butt Joint, Solid Satin Cork Butt and Forward Grips of Special Heddon Design; Extra Heavy Nickeled Reel Seat with Hood at Rear and Heddon Locking Reel Band; Agate Tip and Agate Guides; All Metal Trimmings Oxidized; Fine Weights at Close Intervals with Six Varieties in a Box of Proper Design; Three Colors Wrapping, Four Coats Finest Delicate Waterproof Varnish; Lengths 4½, 5 and 5½ Feet, Weights to Suit Sizes, Shipping Weight per Dozen 6 lbs. **$130 00**

Twelfth Dozen in a Partitioned Canvas Bag

Per Dozen

No. H4—Fine quality Split Bamboo Tips, Two Tips with Split Bamboo Butt Joint, Solid Cork Grip and Forward Grip, Extra Heavy Nickeled Reel Seat with Hood at Rear and Heddon Locking Reel Band; Agate Tip and Agate Guides; All Metal Trimmings Oxidized; All other Guides Lined of Metal; Improved Welted Ferrule; Well Wrapped with Silk Windings in Three Colors; Lengths 4½, 5 and 5½ Feet, Weights to Suit Sizes; Shipping Weight per Dozen 6 lbs. **$96 00**

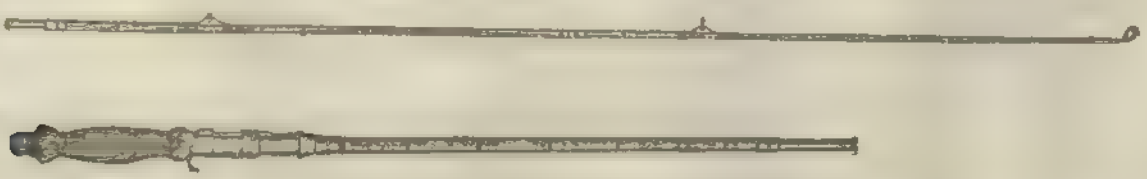
Twelfth Dozen in a Partitioned Canvas Bag



Per Dozen

No. H2½—Two Piece with Extra Tip; Good Quality Split Bamboo Tips; Split Bamboo Butt with Solid Cork Grip and Forward Grip Bamboo Extending through to Butt Cap; Nickeled Reel Seat with Hood at Rear and Trigger on Reel Band; Agate Tip and Agate Guides; All Metal Trimmings Oxidized; Improved Welted Ferrule; Nicely Wound with Silk Windings in Two Colors; Lengths 4½, 5 and 5½ Feet, Weights to Suit Sizes; Shipping Weight per Dozen 6 lbs. **$64 00**

Twelfth Dozen in a Partitioned Cloth Bag



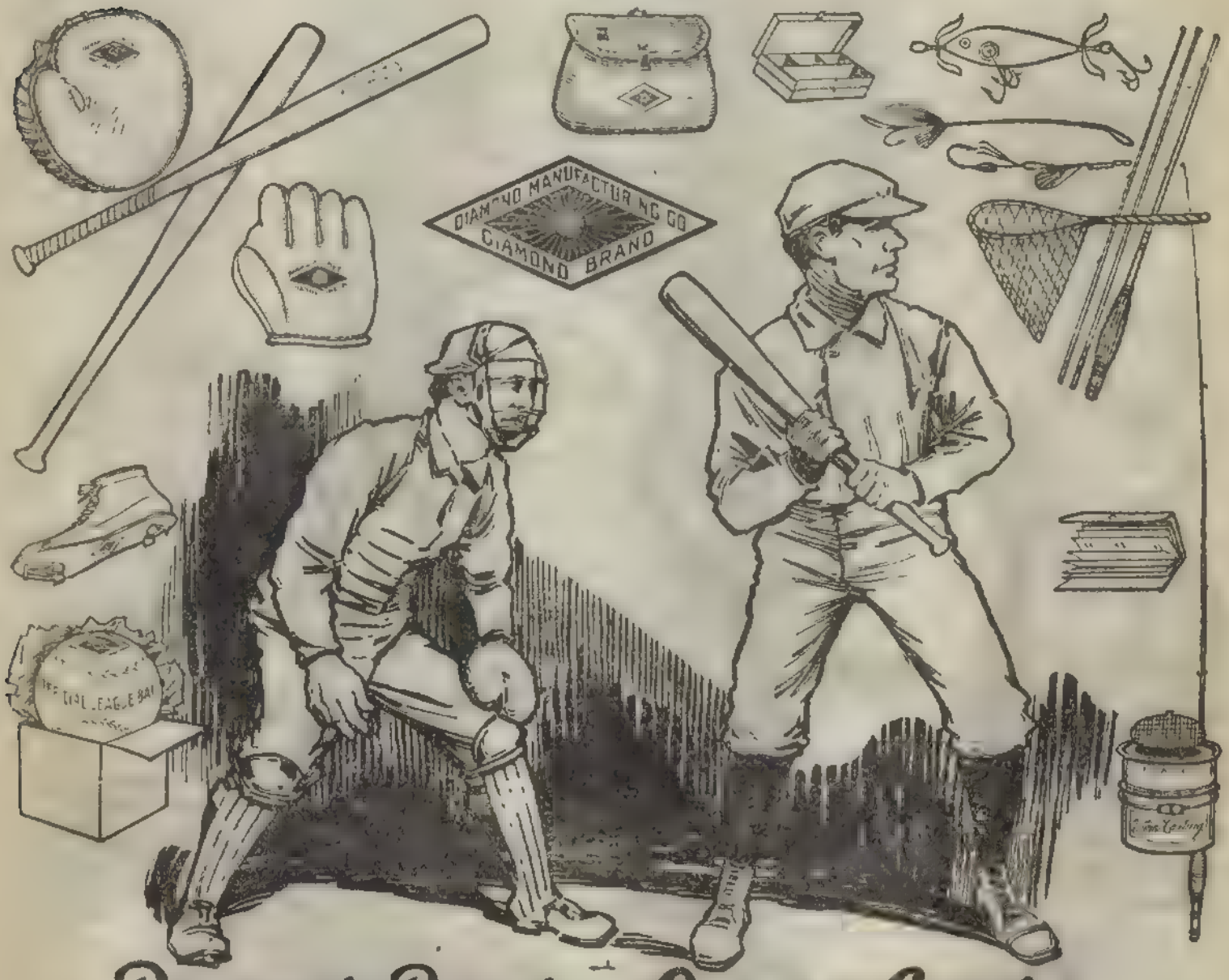
Per Dozen

No. H1½—Good Quality Split Bamboo Tip and Butt with Polished Maple Handle of Special Heddon Design; Nickeled Reel Seat with Hood at Rear and Trigger on Reel Band; Agate Tip and Agate Guides; All Metal Trimmings Oxidized; Improved Welted Ferrule; Well Wrapped with Silk Windings in Two Colors; Length 5 Feet only; Weight 6½ ozs.; Shipping Weight per Dozen 6 lbs. **$40 00**

Twelfth Dozen in a Partitioned Cloth Bag

WRAPPING PAPER PRINTED FREE OF CHARGE

We show the following Design to be used in Printing Wrapping Paper. The Customers Name, Card and Address is set up in prominent type.. In ordering designate by number of Design.



DESIGN U

WRAPPING PAPER PRINTED FREE OF CHARGE

We show the following design to be used in Printing Wrapping Paper. The Customers Name, Card and Address is set up in prominent type. In ordering, designate by Number of Degign.

"DIAMOND EDGE IS A QUALITY PLEDGE"

DESIGN C

FISHING RODS

SPLIT BAMBOO BAIT CASTING

HEDDONS DOWAGIAC

Two Piece Construction, with Heddon Original Short Butt and Long Tip Design which Greatly Increases Casting Force and Reduces to Minimum the Liability of Breakage

Two Piece Construction, with Heddon Original Short Butt and Long Tip Design which Greatly Increases Casting Force and Reduces Minimum the Liability of Breakage

Per Dozen

No. H10—Finest Selected Split Bamboo with Extra Tip; Solid Satin Cork Butt and Forward Grips of Special Heddon Design, Extra Heavy German Silver Metal Throughout, with Hood at Rear of Reel Seat and Heddon Locking Reel Band. Agate Tops and Agate Guides throughout. All Metal Handsomely Ornamented and Reel Wound at Close Intervals with Silk Windings in a Beautiful Design of Three Colors, Covered with Four Coats Finest Elastic Waterproof Varnish; Lengths 4½, 5 and 5½ Feet, Weights 6 to 8 ozs; Shipping Weight per Dozen 6 lbs..... **$192 00**

Twelfth Dozen in a Partitioned Canvas Bag in a Waterproof Leatherette Case

Per Dozen

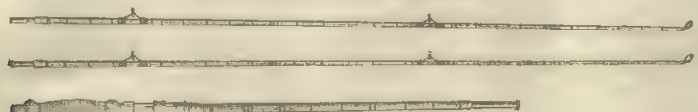
No. H6—Selected Split Bamboo with Extra Tip, Split Bamboo Butt Joint; Solid Satin Cork Butt and Forward Grips of Special Heddon Design; Extra Heavy Nickeled Reel Seat with Hood at Rear and Heddon Locking Reel Band; Tip Agate Tips Guides and Agate Tops; other Guides File-proof Metal; Improved Welted Ferrule and All Metal Handsomely Ornamented; Closely Wound with Silk Windings in Three Colors; Lengths 4½, 5 and 5½ feet; Weights 6 to 8 ozs.; Shipping Weight per Dozen 6 lbs..... **$130 00**

Twelfth Dozen in a Partitioned Canvas Bag

Per Dozen

No. H4—Fine quality Split Bamboo Tips, Two Tips with Split Bamboo Butt Joint, Solid Cork Grip and Forward Grip, Extra Heavy Nickel Reel Seat with Hood and Trigger at Rear; Heddon Locking Reel Band; both Tip Tops and First Guides Agate; all other Guides File-proof Metal; Improved Welted Ferrule; Well Wrapped with Silk Windings in Three Colors, Lengths 4½, 5 and 5½ Feet, Weights 6 to 8 ozs; Shipping Weight per Dozen 6 lbs..... **$96 00**

Twelfth Dozen in a Partitioned Canvas Bag



Per Dozen

No. H2½—Two Piece with Extra Tip; Good Quality Split Bamboo Tips, Split Bamboo Butt with Solid Cork Grip and Forward Grip Bamboo Extension Ferrule to Grip Cap; Nickeled Reel Seat with Hood at Rear and Trigger; Heddon Locking Reel Band; all other Metal, Improved Welted Ferrule; Neatly Wound with Silk Windings in Two Colors, Lengths 4½, 5 and 5½ Feet; Weights 6 to 8 ozs.; Shipping Weight per Dozen 6 lbs..... **$64.00**

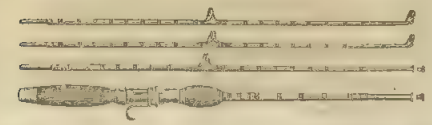
Twelfth Dozen in a Partitioned Cloth Bag

Per Dozen

No. H1½—Good Quality Split Bamboo Tip and Butt with Polished Maple Handle of Special Heddon Design; Nickeled Reel Seat with Hood at Rear and Trigger at Base; Agate Guides; Metal Tip Cap; Improved Welted German Silver Ferrule; Well Wrapped with Silk Windings in Two Colors; Length 5 Feet only; Weight 6½ ozs.; Shipping Weight per Dozen 6 lbs..... **$40 00**

Twelfth Dozen in a Partitioned Cloth Bag

FISHING RODS
★DIAMOND BRAND

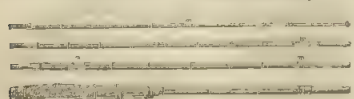


★ULTRA CASTING
Split Bamboo

Per Dozen

No. UC—Three Piece and Extra Tip; Cork Butt and Forward Grip; Brass Reel Seat and Finger Hook on Band; Brass Ferrules and Mountings; All Nickel Plated and Polished; Solid Reel Plate Above Grip; **All Casting Guides German Silver and Agate; German Silver and Agate Angle Guide;** Metal Plugs; Wound with Red and Black Silk at Intervals; Transparent Varnish; Length 4½, 5, 5½ Feet; Weights 8 to 10 ozs.; Shipping Weight per Dozen 8 lbs..... **$240 00**

Twelfth Dozen in a Partition Cloth Bag

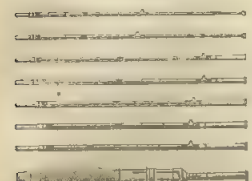


TRUNK BAIT—Split Bamboo

Per Dozen

No. TSB—Trunk Rod; Four Piece; Short Cork Grip; Brass Reel Seat, Ferrules and Mountings, all Nickel Plated and Polished; all Metal Parts, Plain; Solid Reel Plate above Grip; Plain Ferrules; **Spiral Tie Guides;** One Ring Heavy Bait Tip; Metal Plugs; Wound with Red Silk at Intervals, [illegible] lengths 6 ft. 6 in., 7 feet, When Strung 7 oz.; Shipping Weight per Dozen 12 lbs..... **$48 00**

Twelfth Dozen on a Plain Grooved Wood Form in a Cloth Bag

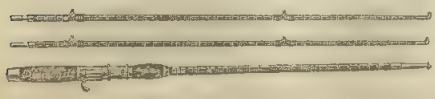


POCKET BAIT
Split Bamboo

Per Dozen

No. PB—Seven Piece and Extra Tip; Short Cork Grip; Solid Reel Seat above Hand; Reinforced Straight Ferrules with Brass Plugs; Full Nickel Plated Mountings; **Snake Guides;** One Three Ring Tip and One Light One Ring Tip; Wound with Red and Black Silk in Clusters and at Intervals; Nicely Varnished; Length 7 feet; Weight 6 ozs.; Shipping Weight per Dozen 6 lbs. **$96.00**

Twelfth Dozen in a Partition Cloth Bag



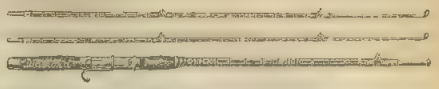
Split Bamboo Casting

Per Dozen

No. BC52—Two Piece and Extra Tip; Cork Butt and Forward Grip; Nickel Plated and Polished, Brass Reel Seat and Finger Hook and Reel Band, handsomely Knurled, Nickel Plated Brass Shoulder Ferrules and reinforced openings, German Silver and Agate Casting Guides and Tips; Reel Plate, Ferrules, Wood Fittings and Metal Cable Silk Windings Throughout; Wound with Red Silk Windings at intervals; Transparent Varnish; Lengths 4½, 5 and 5½ feet; Weights 8 to 10 ozs.; Shipping Weight per Dozen 8 lbs..... **$240.00**

One in a Partition Cloth Bag

FISHING RODS
★DIAMOND BRAND



Split Bamboo Casting

Per Dozen

No. BC42—Two Piece and Extra Tip; Cork Butt and Forward Grip; Nickel Plated and Polished Brass Reel Seat and Finger Hook on Reel Band; Nickel Plated Brass Shoulder Ferrules with reinforced openings; First Guide and Tips **German Silver and Agate Casting;** balance of Guides German Silver Casting without Agates; Metal Plugs for Ferrules; Wound with Red and Black Silk in heavy Clusters at close intervals; Transparent Varnish; Lengths 4½, 5 and 5½ feet; Weights 8 to 10 ozs.; Shipping Weight per Dozen 8 lbs..... **$168 00**

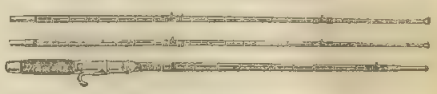
One in a Partition Cloth Bag

Split Bamboo Casting

Per Dozen

No. BC32—Two Piece and Extra Tip; Cork Grip; Nickel Plated Brass Reel Seat and Finger Hook on Reel Band; Nickel Plated Brass Shoulder Ferrules, reinforced at openings and with Metal Plugs; **First Guide and Tips, German Silver and Agate Casting;** balance of Guides German Silver Casting without Agates; wound with Black and White mixed **Cable Silk** windings interspersed with Red Silk windings; Transparent Varnish; Lengths 4½, 5 and 5½ feet; Weights 8 to 10 ozs.; Shipping weight per Dozen 8 lbs..... **$114 00**

One in a Partition Cloth Bag

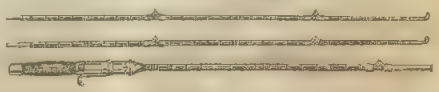


Split Bamboo Casting

Per Dozen

No. BC22—Two Piece and Extra Tip; Cork Grip, Nickel Plated Brass Reel Seat and Finger Hook on Reel Band, Nickel Plated Brass Shoulder Ferrules with Metal Plugs, German Silver Casting Guides and Tip, Wound with Red Silk Windings; Transparent Varnish, lengths 4½, 5 and 5½ feet; Weights 8 to 10 ozs.; Shipping weight per Dozen 8 lbs..... **$90 00**

One in a Partition Cloth Bag



Split Bamboo Casting

Per Dozen

No. BC12—Two Piece and Extra Tip; Cork Grip; Nickel Plated Brass Reel Seat and Finger Hook on Reel Band, Nickel Plated Brass Reinforced Shoulder Ferrules with Metal Plugs, German Silver Casting Guides and Tip, Wound with Red, Black and Green Silk; Transparent Varnish; Lengths 4½, 5 and 5½ Feet; Weights 8 to 10 ozs.; Shipping Weight per Dozen 8 lbs. **$66 00**

One in a Partition Cloth Bag

SKIS

★DIAMOND BRAND

Whenever the Snowfall is sufficient to make good, steady Sleighing, the use of Skis in work and play is becoming popular, and in those Regions where the Snow becomes deep as it does in the Mountains and Hilly Country and occasionally on the Prairies of Dakota and Minnesota, Skis are recognized as necessities.

More Durable than Snow Shoes and allows the Wearer to cover more Ground in less time and with less fatigue.

All Diamond Brand Skis are made of Best Selected Material, thoroughly Kiln Dried, and free from Knots and Blemishes; Covered with several coats of Best Waterproof Varnish. Each Ski provided with Suction Tread Rubber Foot Rests and Best Quality Black Harness Leather Toe Straps.

All Diamond Brand Skis are patterned after the Latest Approved Norwegian Models.

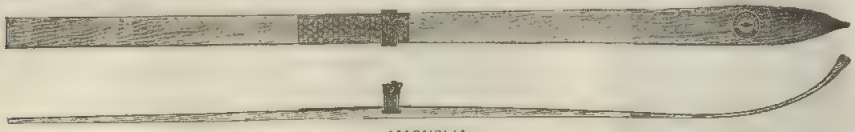
Cut Shows Suction Tread Rubber Foot Rests used on all Diamond Brand Skis

Modeled on Practical, Proven Lines, Always Uniform throughout and will never Lose their Shape.

PINE

Best Quality Selected Stock Norway Pine. Natural Wood Finish with several Coats Best Waterproof Varnish; Fancy Black Stripes; Single Grooved Bottom.

Nos	P4	P5	P6	P7	P7½
Length, feet	4	5	6	7	7½
Weight per Pair, lbs.	3½	4½	5½	7	9
Per Pair	$2.00	2.50	2.70	4.00	6.90



MAGNOLIA

Best Quality Selected Magnolia; Mahogany Finish with several Coats Best Waterproof Varnish, Fancy Grooved White Stripes; Single Groove Bottom.

Nos	M4	M5	M6	M7	M7½
Length, feet	4	5	6	7	7½
Weight per Pair, lbs.	4½	5½	6	8	10
Per Pair	$3 00	3.60	5.00	6.00	6 70

ASH

Very Best Quality Selected Ash, the Best that can be Obtained on the Market; Finished in Black with Fancy Grooved White Stripes; Single Grooved Bottom.

Nos.	A7	A7½	A8
Length, feet	7	7½	8
Weight per Pair, lbs	11½	13	15
Per Pair	$7 50	8 50	9.50

THE CHAMPION HICKORY

Very Best Quality Straight Grained Second Growth Hickory; Finished in Black with Fancy Grooved White Stripes; Double Grooved Bottom Ski is intended more particularly for a Leaping Ski, to be used by the Experts in the Leaping Contests it is made after the Latest Norwegian Design as is Used by all Professionals.

Nos.	H7	H7½	H8
Length, feet	7	7½	8
Weight per Pair, lbs.	12	14	16
Per Pair	$10.00	11.00	12.00

All Above, One Pair in a Bundle

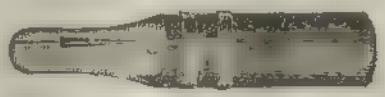
DUCK CALLS

★DIAMOND

This Call Is Made on the Same Principle as the Finest Reed Band Instruments and is One that will Call and not Scare the Ducks. A little Practice and Patience will Result in Any Novice Producing an Exact Imitation of the Call of Wild Ducks. Finest Quality; Hand Made. Each Call Tuned by an Expert. Per Dozen

No. 600—Rock Maple Shell and Reed Holder, Chemically Prepared so as to Produce a Resonant Sound, Oil Finished; Pure Silver and Bell Metal Alloy Reed; Length 6¾ inches; Weight per Dozen 1¾ lbs. **$27.00**

One Dozen in a Box

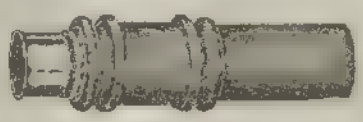


BROADBILL

Will Produce with Perfect Accuracy any Call of our Native Ducks, from the Short, Choppy Call of the Teal to the long, dignified call of the Mallard Drake. It will not Break in Tone by Loud Calling. The Call is made in Two Pieces, allowing the Reed to be Fastened Securely to One Side by the Use of a Metal Clamp. The Reed, which is Made of Select Mica, is Carefully Treated, Rendering it Practically Indestructible. Per Dozen

No. 700—Hardwood, Length 5¼ inches; Enameled Black and Yellow to Represent Duck Bill; Weight per Dozen 1½ lbs. **$15.00**

One in a Carton

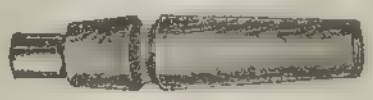


EUREKA

The Correct Principle for Calling Water Fowl is Involved in the Design of this Call. Unlike Other Calls it has a Molded Rubber Reed Holder which is Unaffected by Atmospheric or Thermal Conditions. Will Produce a Correct Quack of Ducks. Per Dozen

No. 400—Rock Maple Shell; Shellaced Finish; Molded Rubber Reed Holder, Contained in a Brass Nickel Plated Tube; Rubber Reed, not Affected by Moisture; Brass Ferrule; Length 4½ inches; Weight per Dozen 1¾ lbs. **$18 00**

One Dozen in a Box

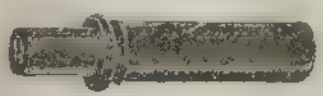


ALLEN

Per Dozen

No. 500—Rock Maple Shell; Natural Wood Finish; Cedar Reed Holder Contained in a Brass, Nickel Plated Tube; Brass Reed, Giving an Exact Call of all Species of Duck; Tuned from the Call of Living Birds; Brass Ferrule; Length 6½ inches; Weight per Dozen 2⅝ lbs. **$10 00**

Half Dozen in a Box



OLT

Per Dozen

No. 0—The Olt O. K. Duck Call, without the Interchangeable Tone Slide; This is a Perfect, High Grade Call, and is "Unequalled for Naturalness." Constructed Entirely of Hard Rubber, with a Straight Reed, which Makes this Call Stay in Perfect Tone in all Kinds of Weather; a Trial will Tell; Dealers will Find this Call a Fast Seller; Warranted as Represented; Weight per Dozen 2½ lbs. **$8 00**

Half Dozen in a Box

CROW CALLS

The most effective means of inducing Crows within Gun Range. With this Call any Ordinary Shot could Easily and Quickly Rid a Corn Field of this most devastating Pest. Per Dozen

No. CC—Red Cedar Shell and Mouth Piece, Varnished; Brass Reed; German Silver Ferrule; Length 4 inches; Weight per Dozen 1½ lbs. **$18 00**

One Dozen in a Box

TURKEY CALLS

Requires But Little Practice to Exactly Produce the Plaintive Call of the Wild Turkey Hen. Per Dozen

No. 89—Horn Bell, Polished; Cocobolo Wood Mouth Piece; Length 5¾ inches; Weight per Dozen ½ lb. **$5 00**

One Dozen in a Box

★DIAMOND EXPERT

Made of Clear Straight Grained Red Cedar and tuned same as Musical Stringed Instruments. Has a Hollow Sounding Box which produces an exact imitation of the call of Wild Turkey; Complete with Sounding Board and Piece of Chalk. Per Dozen

No. DE100—Length 8 inches; Complete Directions with each Call; Weight per Dozen 3 lbs. **$21.00**

Twelfth Dozen in a Box

FOX HORNS

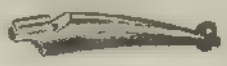
This Horn Excels the Metal Variety for Use in Calling Hounds at a Fox Chase. It Produces a Louder and Clearer Tone.

Per Dozen

No. FH10—Selected Texas Steer Horns, Scraped and Polished; Mouth Piece will not produce Sore Lips and is Shaped so any one can make a very Clear Tone; Average Length 12 inches; Weight per Dozen 3 lbs. **$27.00**

Loose

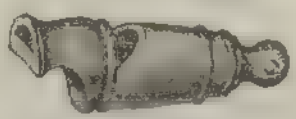
DOG CALLS



Horn, Tip Polished

Per Dozen

No. 40—Length 4 inches; Weight per Dozen 9 ozs. **$4 40**



Horn, Polished

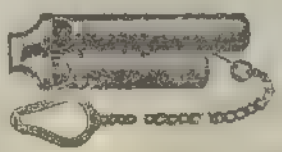
Nos.	010	020	030
Length, Inches	2½	2¾	3
Weight per Dozen, Ozs.	4	5	6
Per Dozen	$3.30	$3 60	4.00

One Dozen in a Box

Celluloid; Assorted Colors

Nos.	C20	C30
Length, Inches	2	2½
Wt. per Dozen, Ozs.	3	5
Per Dozen	$1.80	4.00

One Dozen in a Box



Per Dozen

No. 60—Drawn Brass; Nickel Plated Polished; Round Mouth Piece; [illegible] inches; 15 inch Chain [illegible] Weight per Doz. [illegible] **$1.00**

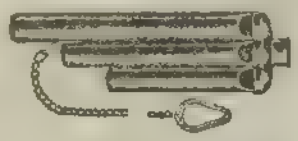
One Dozen in a Box

CALLS

Per Dozen

No. 50—Bright Tin, Soldered, Length 2½ inches; Flat Mouth Piece; Without Chain; Weight per Dozen 3½ ozs..... **$1 00**

One Dozen in a Box



TRIPLEX

Per Dozen

No. 75—Drawn Brass; Nickle Plated and Polished; Extra Loud and Heavy; Round Mouth Piece; Length 6 inches; 15 inch Chain with Button Loop. Weight per Dozen 1½ lbs.. . **$7 00**

One Dozen in a Box

Per Dozen

No. 52—Light Weight Drawn Brass; Nickel Plated and Polished, Length 2½ inches, Flat Mouth Piece; 15 inch Chain with Button Loop; Weight per Dozen 5 ozs **$1 80**

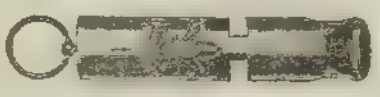
One Dozen in a Box

UNIVERSAL

Heavy Drawn Brass; Nickel Plated and Polished; Flat Mouth Piece; 9 inch Chain with Hook.

Nos.	U30	U20	U10
Length, Inches	2½	3	3½
Wt. per Doz. Ozs.	7	8	9
Per Dozen	$3 80	4 00	4 80

One Dozen in a Box



BOY SCOUT WHISTLES

The Standard Whistle Adopted by the Boy Scouts of America; Produces a very loud, Shrill Call.

Per Dozen

No. 938—Brass, Gun Metal Finish; Length 2¾ inches; Ring at End; Weight per Dozen 8 ozs **$4.50**

One Dozen in a Box

POLICE WHISTLES

ECHO

Per Dozen

No. 60—Drawn Brass, Nickel Plated and Polished; Flat Mouth Piece with Ring; Size 1¾ inches; Weight per Dozen 8 oz..... **$4 50**

No. 1250—Light Weight Stamped Brass; Nickel Plated and Polished; Flat Mouth Piece; with Ring; Size 1¾ inches, Weight per Dozen 5 ozs..... **1.70**

One Dozen in a Box

FISHING STOCKINGS AND PANTS

Highest Quality Genuine Mackintosh; Light Drab Color; Reinforced Seats and Legs, Extra Strong; Straps and Suspenders Made of Same Material as Stockings; Black Enameled Buckles; Extra Thick Composition Cork and Rubber Soles on Boots.

Manufacturered by the Goodyear India Rubber Glove and Mfg. Co.

FISHING PANTS—WITH BOOTS

Per Pair

No. MB20—Sizes 6, 7, 8, 9, 10, 11 only, Weight About 4½ lbs **.$33 00**

One Pair in a Package

Size	Hips	Inseam	Outseam
6	41 inches	33 inches	49 inches
7	41 inches	33 inches	51 inches
8	42 inches	34 inches	51½ inches
9	44 inches	34 inches	53 inches
10	44 inches	35 inches	53½ inches
11	46 inches	35 inches	54 inches

NOTE—When Ordering Special Sizes Always Give the Following Information.

Fishing Stockings—Size of Shoe, Length Inseam of Trousers, Measurements Around Thigh and Calf.

Fishing Pants—Size of Shoe, Measurement Around Hips, Length Inseam of Trousers, Length Outseam of Trousers.

Any Stocking and Pants that are Made Exactly with the Specifications Called for will not be Accepted Back by the Factory.

We are not Responsible for Mismeasurements, and Cannot Stand any Express Charges. Customers Must Assume all Risks for Mismeasurements.

NOTE—All Fishing Stockings and Pants Made with Special Measurements take an Additional Cost Over the Regular Price.

Extra

Special Measurements on Nos. MS1, MS2 and MB20..... $7.00

FANCY WOOD PLANES

OHIO TOOL CO.

NOTE—When ordering Planes on this Page, Give Both Number and Size.

No. 72F—HOLLOWS AND ROUNDS

Beechwood, Plain Finish; Forged Tool Steel Blades, Tempered and Polished; Ready for Use. **We can Furnish any Size of No. 72F in Half Pairs (Either Hollow or Round) at Half the Price per Pair.**

Size, Nos.	1	2	3	4	5
Width Cutter, in.	¼	⅜	½	⅝	¾
Size Circle	½	¾	1	1¼	1½
Wt. Pr., lbs.	1⅛	1¼	1½	1¾	2
Per Pair	$2.20	2.20	2.20	2 20	2.20

Size, Nos.	6	7	8	9
Width Cutter, in.	⅛	1	1⅛	1¼
Size Circle	1¾	2	2¼	2½
Wt. Pair, lbs.	2⅛	2¼	2⅜	2¾
Per Pair	$2.20	2.70	2.70	2 70

Loose.

Beading

For Cutting Bead on Wainscoting or Other Work. Length 12½ inches; Average Weight 1 lb.

Beechwood, Plain Finish; Forged Tool Steel Cutters, Tempered, Ground and Polished; Ready for Use

No. 37F—Single Boxed; Side Bead

Width Cutter, in.	3/16	¼	5/16	⅜	½	⅝
Each	$1 10	1.10	1 10	1 10	1 10	1.40

No. 38F—Double Boxed; Side Bead

Width Cutters, in.	5/16	⅜	½
Each	$1 50	1 50	1.50

Moulding

For Cutting Mouldings for Window Casings, Baseboards and Special Work; Average Weight 1¼ lbs.

No. 43½F—Quarter Round or Scotia

Width Cutter, in.	¼	⅝	¾	1
Each	$1.10	1.10	1.10	1.50

Loose.

Panel Plow

Plain Finish; Forged Steel Cutters, Tempered, Ground and Polished; Ready for Use.

For Grooving for Panels Adjustable to Depth; with Handle and Nickel Plated Stop Screw with Cutters, One Each 3/16, 5-16, ¼, 5-16, ⅜, 7-16, ½, ⅝

	Each
No. 96½F—Beechwood Arms; Not Boxed	$12 70
No. 101F—Boxwood Arms; Boxed Fence	15 50

Weight Each 3¼ lbs.
Loose

WOOD BOTTOM PLANES

★*DIAMOND EDGE*—ADJUSTABLE

Smooth

Selected Clear Beechwood Bottom, Handle and Knob; Perfectly Smooth and True Face; Polished Sides; Black Enameled Cast Iron Frame; Full Polished Cap and Cutter; Highest Grade English Tool Steel; Thin Bit Cutters; Oil Tempered, Ground and Hand Sharpened; Screw and Lever Adjustment; Brass Screw.

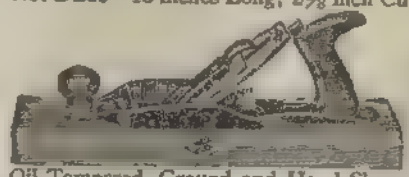
	Each
No. DE22—8 inches Long; 1¾ inch Cut; Weight 2½ lbs.	$2.90
No. DE23—9 inches Long; 1¾ inch Cut; Weight 2⅝ lbs.	2.90
No. DE24—8 inches Long; 2 inch Cut; Weight 2⅞ lbs.	2.90

One in a Box.

Handled Smooth

Selected Clear Beechwood Bottom, Handle and Knob; Perfectly Smooth and True Face; Polished Sides; Black Enameled Cast Iron Frame; Full Polished Cap and Cutter; Highest Grade English Tool Steel; Thin Bit Cutters; Oil Tempered, Ground and Hand Sharpened; Screw and Lever Adjustment; Brass screw.

	Each
No. DE35— 9 inches Long; 2 inch Cut; Wt. 3¼ lbs.	$3.50
No. DE36—10 inches Long; 2⅜ inch Cut; Wt. 4⅛ lbs.	4 00



Selected Clear Beechwood Bottom, Handle and Knob; Perfectly Smooth and True Face; Polished Sides; Black Enameled Cast Iron Frame; Full Polished Cap and Cutter; Highest Grade English Tool Steel; Thin Bit Cutters; Oil Tempered, Ground and Hand Sharpened; Screw and Lever Adjustment; Brass Screw.

Jack

	Each
No. DE26—15 ins. Long; 2 inch Cut; Weight 3¾ lbs.	$3.10
No. DE27—15 ins. Long; 2⅜ inch Cut; Weight 4⅛ lbs.	3 44
No. DE27½—15 ins. Long; 2¼ inch Cut; Weight 5¼ lbs	3 50

Fore

No. DE28—18 ins. Long; 2⅜ inch Cut; Weight 5½ lbs.	3 90
No. DE29—20 ins. Long; 2⅜ inch Cut; Weight 5¾ lbs.	4.00

One in a Box.

Jointer

No. DE31—24 ins. Long; 2⅜ inch Cut; Weight 5⅞ lbs.	4.30
No. DE32—26 ins. Long; 2⅜ inch Cut; Weight 7 lbs.	4.50
No. DE33—28 ins. Long; 2⅜ inch Cut; Weight 7¾ lbs.	4 50
No. DE34—30 ins. Long; 2⅜ inch Cut; Weight 8¼ lbs.	4.70

One in a Box

Bridge

★BRIDGE TOOL CO. ADJUSTABLE

Bridge

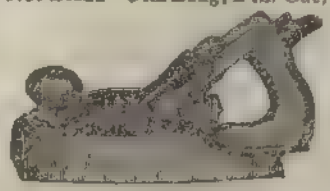
Smooth

Selected Beech Bottoms, Handle and Knob; Japanned Cast Iron Top.

	Each
No. BX22—8 inches Long; 1¾ inch Cut; Wt. 3 lbs.	$3.00
No. BX23—9 inches Long; 1¾ inch Cut; Wt. 3 lbs	3 00
No. BX24—8 in. Long; 2 in. Cut; Wt. 3¼ lbs.	3.00

One in a Box.

Handled Smooth



Selected Beech Bottoms, Handle and Knob; Japanned Cast Iron Top.

	Each
No. BX36—9 in. Long; 2 in. Cut; Wt 3½ lbs.	$3 50
No. BX38-10 in. Long; 2⅜ in. Cut; Wt. 4¼ lbs.	3 80

One in a Box.

Selected Beech Bottoms, Handle and Knob; Japanned Cast Iron Top.

Jack

	Each
No. BX26—15 in. Long; 2 in Cut; Wt. 4¼ lbs.	$3.30
No. BX27-15 in. Long; 2⅜ in. Cut; Wt. 4¾ lbs	3.50

Fore

No. BX28-18 in. Long; 2¾ in. Cut; Wt. 6¼ lbs.	4 00
No. BX29-20 in. Long; 2⅜ in. Cut; Wt 6½ lbs.	4.00

One in a Box

Jointer

	Each
No. BX31-24 in. Long; 2⅜ in. Cut; Wt 8¼ lbs.	$4.50
No. BX32-26 in. Long; 2⅜ in. Cut; Wt. 8½ lbs.	4.70
No. BX33-28 in. Long; 2⅜ in. Cut; Wt 8¾ lbs.	4.70

One in a Box.

IRON BENCH PLANES

★*Diamond Edge*—ADJUSTABLE

Smooth, Plain Bottom

Black Enameled Cast Iron Frames; Face of Bottom and Sides Ground True and Smooth; Composition Rubber Handle; Ebonized Wood Knob; Full Polished Cap and Cutters; Highest Grade English Tool Steel, Thin Bit Cutters Oil Tempered, Ground and Hand Sharpened. Screw and Lever Adjustment; Brass Screw.

	Each
No. DE3 — 8 inches Long; 1¾ inch Cut; Weight 3¼ lbs.	$4 10
No. DE4 — 9 inches Long; 2 inch Cut; Weight 3¾ lbs.	4.30
No. DE4½—10 inches Long; 2⅜ inch Cut; Weight 5¼ lbs.	5.10

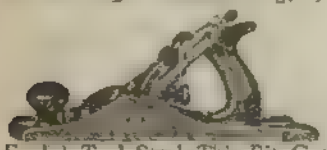
Smooth, Corrugated Bottom

Black Enameled Cast Iron Frames; Face of Bottom and Sides Ground True and Smooth; Composition Rubber Handle; Ebonized Wood Knob; Full Polished Cap and Cutters; Highest Grade English Tool Steel, Thin Bit Cutters; Oil Tempered, Ground and Hand Sharpened; Screw and Lever Adjustment; Brass Screw.

The Corrugated Bottom Lessens Friction and Makes an Easier Running Tool Than the Smooth Bottom Plane.

	Each
No. DEC3 — 8 inches Long; 1¾ inch Cut; Weight 3¼ lbs.	$4 10
No. DEC4 — 9 inches Long; 2 inch Cut; Weight 3¾ lbs.	4.30
No. DEC4½—10 inches Long; 2⅜ inch Cut; Weight 5⅛ lbs.	5.10

Plain Bottom



Black Enameled Cast Iron Frames, Face of Bottom and Sides Ground True and Smooth; Composition Rubber Handle; Ebonized Wood Knob, Full Polished Cap and Cutters; Highest Grade English Tool Steel; Thin Bit Cutters; Oil Tempered, Ground and Hand Sharpened; Screw and Lever Adjustment; Brass Screw.

	Each
Jack	
No. DE5 —14 inches Long; 2 inch Cut; Weight 4⅞ lbs.	$4 90
No. DE5½—15 inches Long; 2¼ inch Cut; Weight 6¼ lbs.	5.80
Fore	
No. DE6 —18 inches Long; 2⅜ inch Cut; Weight 7¼ lbs.	6.50
Jointer	
No. DE7 —22 inches Long; 2⅜ inch Cut; Weight 7⅞ lbs.	7 40
No. DE8 —24 inches Long; 2⅜ inch Cut; Weight 9⅛ lbs.	8.90

Corrugated Bottom

Black Enameled Cast Iron Frames; Face of Bottom and Sides Ground True and Smooth; Composition Rubber Handle; Ebonized Wood Knob; Full Polished Cap and Cutters; Highest Grade English Tool Steel; Thin Bit Cutters, Oil Tempered, Ground and Hand Sharpened; Screw and Lever Adjustment; Brass Screw.

The Corrugated Bottom Lessens Friction and Makes an Easier Running Tool than the Smooth Bottom Plane

	Each
Jack	
No. DEC5 —14 inches Long; 2 inch Cut; Weight 4¾ lbs.	$4 90
No. DEC5½—15 inches Long; 2¼ inch Cut; Weight 6¼ lbs.	5.80
Fore	
No. DEC6 —18 inches Long; 2⅜ inch Cut; Weight 7¼ lbs.	6.50
Jointer	
No. DEC7 —22 inches Long; 2⅜ inch Cut; Weight 7⅞ lbs.	7.40
No. DEC8 —24 inches Long; 2⅜ inch Cut; Weight 9¾ lbs.	8 90

★BRIDGE TOOL CO. ADJUSTABLE

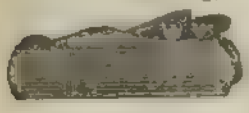
Smooth, Plain Bottom

Best Quality Cast Iron Parts; Ground Face and Sides; Japanned Inside; Varnished Hardwood Handle and Knob. Brass Adjusting Screw; Lateral and Longitudinal Adjustments.

The Cutter is of the Finest Tool Steel; Works Equally Well in Hard and Soft Wood.

	Each
No. BX2 — 7 in. Long; 1⅝ in. Cut; Wt. 2½ lbs.	$4 00
No. BX3—8 in. Long; 1¾ in. Cut; Wt. 3¼ lbs.	4.30
No. BX4—9 in. Long; 2 in. Cut; Wt. 3¾ lbs.	4 50

Smooth, Corrugated Bottom



Best Quality Cast Iron Parts; Ground Face and Sides; Japanned Inside; Varnished Hardwood Handle and Knob; Brass Adjusting Screw; Lateral and Longitudinal Adjustments.

The Cutter is of the Finest Tool Steel; Works Equally Well in Hard and Soft Wood.

The Corrugated Bottom Lessens Friction and Makes an Easier Running Tool Than the Smooth Bottom Plane.

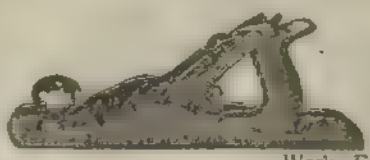
	Each
No. BX2C — 7 in. Long; 1⅝ in. Cut; Wt. 2½ lbs.	$4 00
No. BX3C — 8 in. Long; 1¾ in. Cut; Wt 3¼ lbs.	4.30
No. BX4C — 9 in. Long; 2 in. Cut; Wt. 3¾ lbs.	4.50
No. BX4½C—10 in. Long; 2⅜ in. Cut; Wt. 4⅝ lbs.	5.20

All Above One in a Box.

IRON BENCH PLANES

★BRIDGE TOOL CO. ADJUSTABLE

Plain Bottom



Best Quality Cast Iron Parts; Ground Face and Sides; Japanned Inside; Varnished Hardwood Handle and Knob; Brass Adjusting Screw; Lateral and Longitudinal Adjustments.

The Cutter is of the Finest Tool Steel; Works Equally well in Hard and Soft Wood

	Each
Jack	
No. BX5 —14 in. Long; 2 in. Cut; Wt. 4¾ lbs.	$5 20
No. BX5½—15 in. Long; 2¼ in. Cut; Wt. 5½ lbs.	6.20
Fore	
No. BX6—18 in. Long; 2⅜ in. Cut; Wt 6¾ lbs.	$6.80
Jointer	
No. BX7—22 in. Long; 2⅜ in. Cut; Wt. 8½ lbs.	$7.70
No. BX8—24 in. Long; 2⅜ in. Cut; Wt 9 lbs.	9.

One in a Box.

Corrugated Bottom

Best Quality Cast Iron Parts; Ground Face and Sides; Japanned Inside; Varnished Hardwood Handle and Knob; Brass Adjusting Screw; Lateral and Longitudinal Adjustments.

The Cutter is of the Finest Tool Steel; Works Equally well in Hard and Soft Wood.

The Corrugated Bottom Lessens Friction and Makes an Easier Running Tool than the Smooth Bottom Plane.

	Each
Jack	
No. BX5C —14 in. Long; 2 in. Cut; Wt. 4¾ lbs.	$5 20
No. BX5½C—15 in. Long; 2¼ in. Cut; Wt. 5½ lbs.	6.20
Fore	
No. BX6C—18 in. Long 2⅜ in. Cut; Wt. 6¾ lbs.	$6 80
Jointer	
No. BX7C—22 in. Long; 2⅜ in. Cut; Wt 7¾ lbs.	$7 70
No. BX8C—24 in. Long; 2⅜ in. Cut; Wt 9 lbs.	9.50

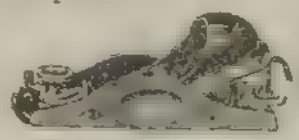
One in a Box.

IRON BLOCK PLANES

★*Diamond Edge*

Refined Cast Iron Frame and Cap; Highest Grade English Tool Steel Thin Bit Cutter; Oil Tempered, Ground and Hand Sharpened.

Regular



Japanned Top, Cap and Trimmings, Polished Face and Sides; Brass Adjusting Nuts. Adjustable Throat which can be Quickly Opened or Closed for Fine or Coarse Work, by a Movement of the Cam Lever at Nose.

	Each
No. DE9½—6 Inches Long; 1⅝ inch Cut; Weight 1¾ lbs.	$2 10
No. DE15—7 inches Long; 1⅝ inch Cut; Weight 1¾ lbs.	2 30
No. DEX16—Nickel Plated Trimmings; 6 inches Long; 1⅝ inch Cut; Weight 1¾ lbs.	2 40

One in a Box.

Knuckle Joint

Japanned Top; Polished Face and Sides; Nickel Plated Brass Adjusting Nuts. Adjustable Throat which Can be Quickly Opened or Closed for Fine or Coarse Work, by a Movement of the Cam Lever at Nose.

	Each
No. DEX18—6¼ inches Long; 1⅝ inch Cut. Weight 1¾ lbs.	$3 50

One in a Box.

Low Angle

Japanned Top; Polished Face and Sides; Nickel Plated Cap and Nuts; Adjustable Throat which Can be Quickly Opened or Closed for Fine or Coarse Work, by a Movement of the Cam Lever at Nose.

	Each
No. DEX60—6 inches Long; 1⅝ inch Cut; Weight 1¾ lbs.	$3.40
No. DEX65—7 inches Long; 1⅝ inch Cut; Weight 1¾ lbs.	

One in a Box.

Regular; Wood Knob, Adjustable; Japanned Top and Cap; Polished Face and Sides; Beechwood Knobs. Adjustable Throat which can be Quickly Opened or Closed for Fine or Coarse Work, by a Movement of the Cam Lever at Nose.

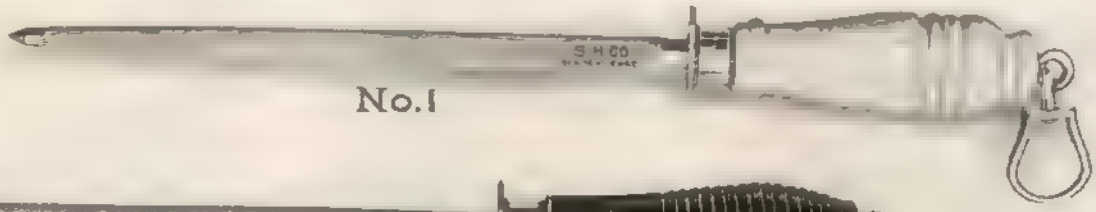
	Each
No. DEX220—7½ inches Long; 1⅝ inch Cut; Weight 1¾ lbs.	$1 50

One in a Box.

CLEAVERS AND CHOPPERS

FOR DESCRIPTION AND PRICES SEE PAGE 2042

BUTCHER STEELS, KITCHEN STEELS AND KITCHEN KNIFE SHARPENERS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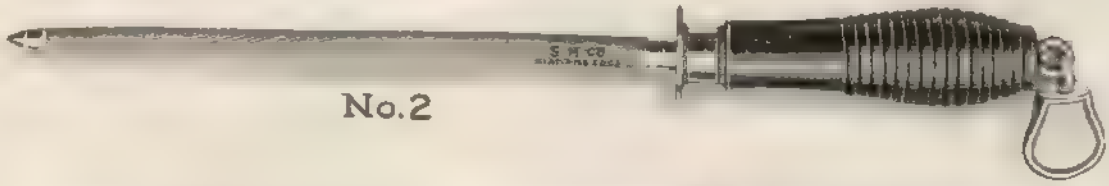
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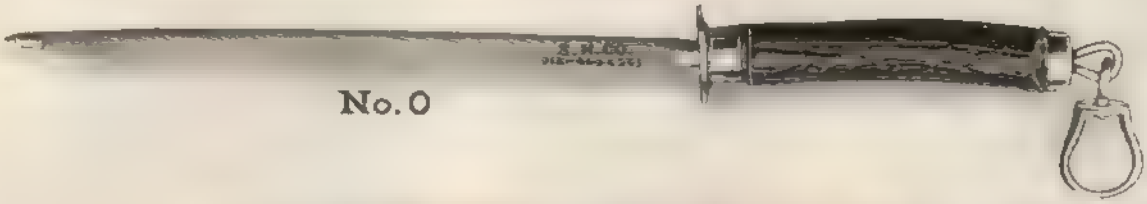
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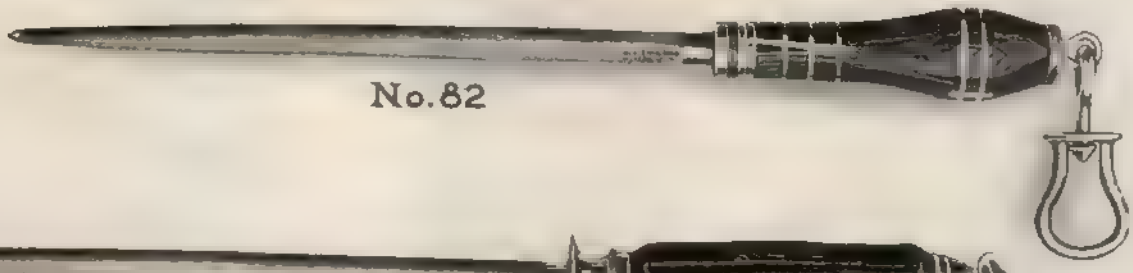
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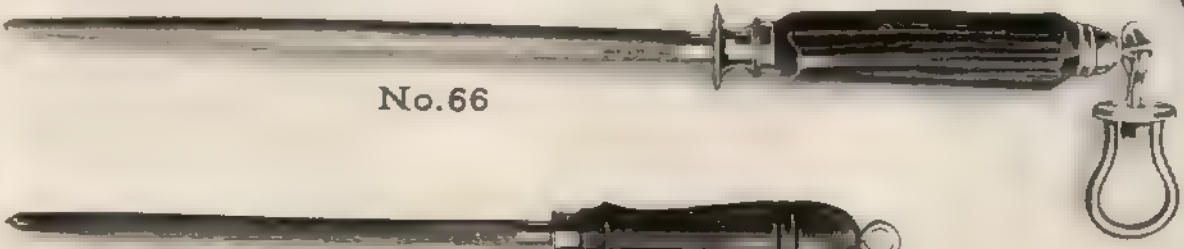
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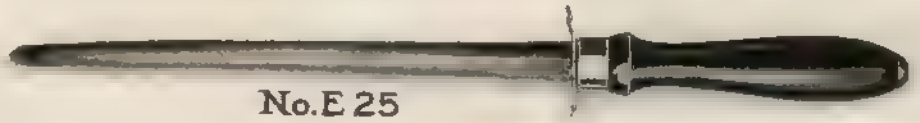
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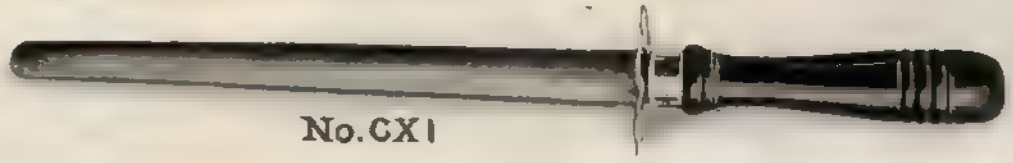
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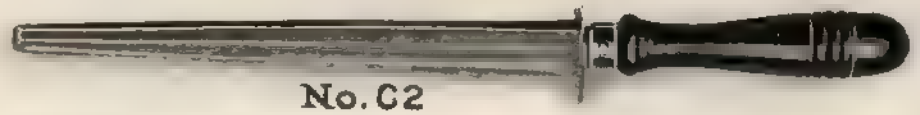
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FOR DESCRIPTION AND PRICES SEE PAGE 2042

ONE-MAN CROSS-CUT SAWS

With Supplementary Handle

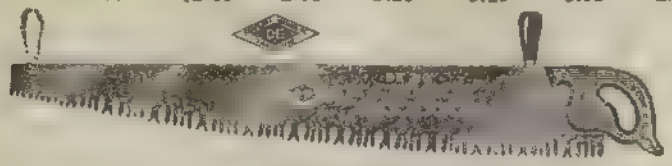
★ *DIAMOND EDGE*

Highest Grade Crucible Saw Steel Blade, Oil Tempered; Ground, Sharpened and Set; Full Polished and Etched; Thin Back.

No. DE302—CHAMPION TOOTH

Beech Handle, Varnished Edges, Three Brass Screws; Beech Supplementary Top Handle.

Length, Feet	2½	3	3½	4	4½	5
Weight Each, Lbs.	3	4	4½	6	7	8
Each	$2.30	2.80	3.10	3.40	3.80	4.20



★ *DIAMOND EDGE*

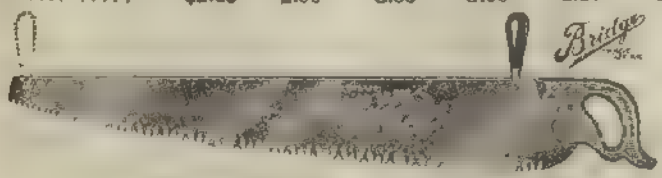
Highest Grade Crucible Saw Steel Blade, Oil Tempered; Ground, Sharpened and Set; Full Polished and Etched; Thin Back.

No. DE310—CANADIAN PATTERN

Lance Tooth, Perforated

Beech Handle, Varnished Edges, Three Brass Screws; Beech Supplementary Top Handle.

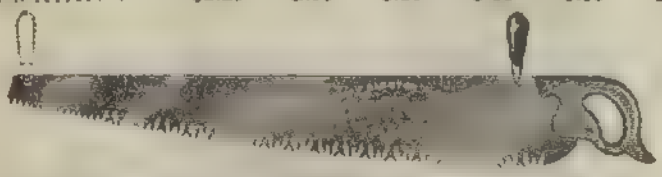
Length, Feet	2½	3	3½	4	4½	5
Weight Each, Lbs.	2¾	3½	5	5¾	6½	7½
Each	$2.40	2.90	3.30	3.80	4.20	4.70



No. B302—★BRIDGE, CHAMPION TOOTH

Extra Quality Crucible Saw Steel Blade, Polished and Etched; Oil Tempered, Carefully Ground, Sharpened and Set; Three Brass Screws; Beechwood Handle, Varnished Edges, Beech Supplementary Top Handle.

Length, Feet	2½	3	3½	4	4½	5
Weight Each, Lbs.	2¾	3¾	4½	5½	7	8
Each	$2.20	2.70	3.10	3.50	3.80	4.40

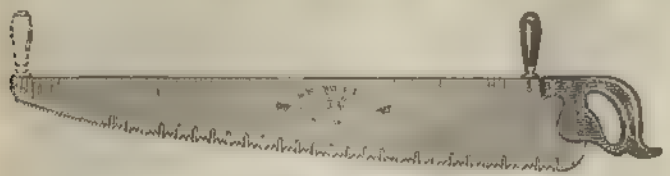


DISSTON

High Grade Steel Blade; Perfectly Tempered, Set and Sharpened, Polished and Etched; Thin Back; Beech Handle, Varnished Edges, Brass Screws; Beech Supplementary Top Handle.

No. D302—CHAMPION TOOTH

Length, Feet	3	3½	4	4½	5	5½
Weight Each, Lbs.	3¾	4½	5½	6	7½	8
Each	$4.00	4.70	5.30	5.50	6.30	7.00



DISSTON

High Grade Steel Blade; Perfectly Tempered, Set and Sharpened, Polished and Etched; Thin Back; Beech Handle, Varnished Edges, Brass Screws; Beech Supplementary Top Handle.

No. D300—GREAT AMERICAN TOOTH

Length, Feet	3	3½	4	4½	5
Weight Each, Lbs.	3¾	4½	5½	6	7
Each	$4.00	4.60	5.50	6.00	6.60

Loose.

CROSS-CUT SAW HANDLES

★*DIAMOND EDGE*

Malleable Iron Loop

Solid Iron Combination Steel Plug and Nut; Polished Maple Handle; Malleable Iron Bell Ferrule and Cap, Painted Red.

Per Pair

No. DE8—13½ inch Handle; 4¼ inch Loop; 2 inch Ferrule; Weight per Pair 2 lbs. $0 60

12 Pairs in a Carton.

★*DIAMOND EDGE*

Per Pair

No. DE11—Reversible; 15½ inch Polished Ash Handle; Red Painted Malleable Iron Sheaths; Tinned Bolt and Thumb Nut; Weight per Pair, 1½ lbs... $0 48

12 Pairs in a Carton.

ATKINS

Wrought Loop

Solid Iron Combination Plug and Nut; Varnished Hardwood Handle; Malleable Iron Bell Ferrule and Cap, Painted Black.

Comparative to Ely No. 16; Disston No. 110.

Per Pair

No. 12—9½ inch Handle; 4 inch Loop; 2 inch Ferrule; Weight per Pair 2 lbs..... $0 66

12 Pairs in a Carton.

ATKINS

Malleable Iron Loop

Solid Iron Combination Plug and Nut; Varnished Beech Handle; Malleable Iron Bell Ferrule and Cap, Painted Black.

Comparative to Ely No. 2M; Simonds No. 88.

Per Pair

No. 8—10 inch Handle; 4¼ inch Loop; 2 inch Ferrule; Weight per Pair 1¾ lbs..$0.60

12 Pairs in a Carton.

CRESCENT

Heavy Malleable Loop

Loop Screwed to Bolt, Which Extends Through Handle and is Riveted at End; Wax Finish Beech Handle; Malleable Cap and Ferrule, Painted Black.

Per Pair

No. 25—12 inch Handle, Including 2¾ inch Cuff; 4 inch Loop; Weight per Pair 2 lbs... $0 92

12 Pairs in a Carton.

ATKINS

Heavy Patent Swivel Malleable Loop

Varnished Beech Handle; Malleable Iron Ferrule and Swivel; Combination Plug and Nut.

Comparative to Ely No. 6; W. M. C. Co. No. 3.

Per Pair

No. 3—10 inch Handle; 4 inch Loop; 1½ inch Ferrule; Weight per Pair 2 lbs..... $0 60

12 Pairs in a Carton.

CROSS-CUT SAW HANDLES

EXCELSIOR

Malleable Iron Loop

Plain Beech Handle; Cast Iron Ferrule and Swivel Cap; Combination Iron Plug and Nut.

Per Pair

No. 10—9¼ inch Handle; 4¼ inch Loop; ⅝ inch Ferrule; Weight per pair 1¼ lbs..... **$0.42**

12 Pairs in a Carton.

SIMONDS

Plain Hardwood Handle; Malleable Iron Loop Casting; Loop Screws up into a threaded ferrule at the Bottom of the Handle.

Per Pair

No. 6/S—9½ inch Handle; 4¼ inch Loop, 3⅛ inch Malleable Iron Ferrule; Weight per Pair 2 lbs. **$1.10**

12 Pairs in a Carton.

REVERSIBLE BRACKET

For Felling Purposes

Comparative to W. M. & C. No. 9, Ely No. 11, Disston No. 113.

Per Pair

No. 9—Atkins; 4 inch Malleable Loop; Malleable Socket and Bracket, 3½ inch Arm; Plain Beech Handle; 12 inches; Blade Can be Faced to Cut in Four Directions; Weight per Pair 2¼ lbs..... .....**$0 80**

12 Pairs in a Carton.

Per Pair

No. 26—Atkins; 10 inch Selected Hardwood Handle; 4¼ inch Wrought Iron Loop; Solid Iron Combination Plug and Nut; Malleable Castings; Weight per Pair, 1⅝ lbs. **$0.66**

12 Pairs in a Carton.

Per Pair

No. 28—Atkins; 8 inch Plain Beech Handle; 4 inch Wrought Iron Loop. Cap and Nut combined in One Solid Iron Casting. Loop extends Through Handle; Weight per Pair, 1½ lbs..... **$0.92**

12 Pairs in a Carton.

Per Pair

No. 13X—Atkins; 8 inch Selected Hardwood Handle; 4 inch Wrought Iron Loop; Solid Iron Combination Plug and Nut; Malleable Castings; Weight per Pair, 1½ lbs. **$0 60**

12 Pairs in a Carton.

CROSS-CUT SAW HANDLES

ATKINS

Patent Swivel; Malleable Loop

Varnished Beech Handle; Malleable Iron Ferrule and Swivel; Combination Iron Plug and Nut. Comparative to Disston No. 107; Ely No. 4.

Per Pair

No. 6—9 inch Handle; 4 inch Loop; 1½ inch Ferrule; Weight per Pair 2 lbs..... **$0 42**

12 Pairs in a Carton.

CLIMAX, HEAVY

Per Pair

No. 22—Reversible; 14 inch Plain Beech Handle; Plain Malleable Iron Heavy Sheaths; and Thumb Nut; Steel Bolt; Weight per Pair, 1⅞ lbs..... .... **$0 90**

12 Pairs in a Carton.

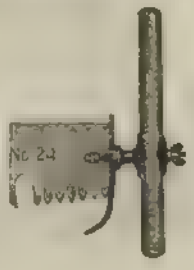
CLIMAX, LIGHT

Comparative to Ely No. 5 Disston No. 102½.

Per Pair

No. 11—Reversible; 14 inch Plain Beech Handle; Plain Malleable Iron Clasps; Weight per Pair, 1½ lbs..... **$0 44**

12 Pairs in a Carton.



PACIFIC COAST PATTERN

Per Pair

No. 24—13 ½ inch Long, Plain Maple Handle, 5¼ inch Long Steel Bolt; with Iron Wing Nut; Black Japanned Malleable Iron Clasps; Weight per Pair 2 lbs **$1.20**

12 Pairs in a Carton.

ONE-MAN CROSS CUT SAW HANDLES

REGULAR

Per Dozen

No. D—Regular (or Butt) Handle; Plain Beechwood, Varnished Edges; Not Bored and without Screws; 8½ in. Long; 5⅛ in. Wide; Hand Hold 3⅛x1¼ in **$3.50**

Half Dozen in a Box

Weight per Dozen, 7 lbs.

SUPPLEMENTARY

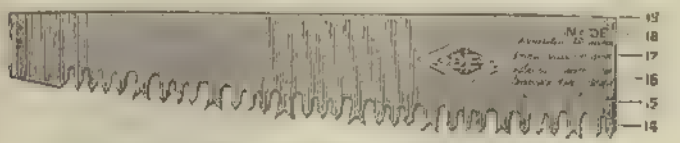
Per Dozen

No. S—Supplementary (or Point) Handle; Varnished Beechwood; 5¼x1⅜ inch Polished Malleable Iron Ferrule; Malleable Iron Shank and Hook, with Rivet; Weight per Dozen 4 lbs.....**$2.50**

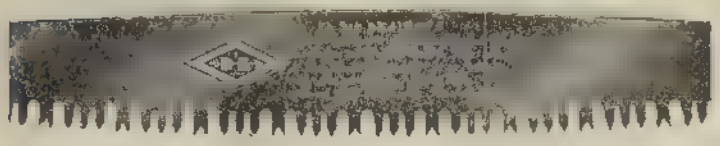
One Dozen in a Box

CROSS-CUT SAWS
★DIAMOND EDGE

Made of Finest Grade Saw Steel, Tempered in Oil; Polished and Etched; Filed by Hand and Gullets Filed Clean. Ground by a Special Process from Center of Back Edge to Cutting Edge.



Cut Shows Method of Grinding Diamond Edge Saws

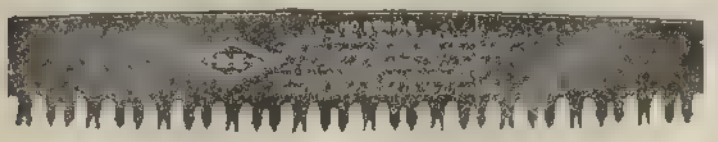


LANCE TOOTH

No. DE119—14x19 Gauge

14 Gauge at Tooth Edge; Back, 16 Gauge at Ends, Tapering to 19 Gauge at Center; Polished and Etched.

Length, Feet	5	5½	6	6½
Width at Center, inches	6⅝	7	7¼	7⅝
Weight Each, lbs.	5	5¼	7¼	8⅛
Each, Without Handles	$6.30	6.60	7.20	7.80

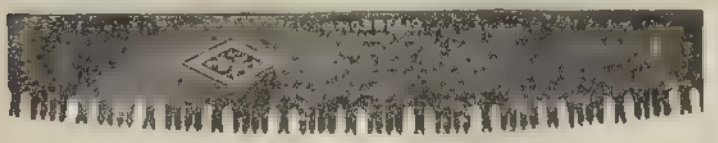


LANCE TOOTH—PERFORATED

No. DE148—14x18 Gauge

14 Gauge at Tooth Edge; Back, 16 Gauge at Ends, Tapering to 18 Gauge at Center; Polished and Etched.

Length, Feet	5½	6	6½
Width at Center, inches	6⅞	7¼	7⅝
Weight Each, lbs.	6	7¼	8
Each, Without Handles	$7.00	7.50	8.30

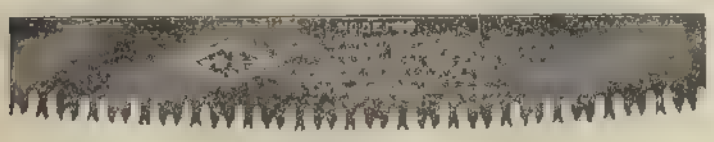


LANCE TOOTH—PERFORATED

No. DE1419—14x19 Gauge

14 Gauge at Tooth Edge; Back, 16 Gauge at Ends, Tapering to 19 Gauge at Center; Polished and Etched.

Length, Feet	5½	6	6½	7
Width at Center, in.	6⅛	6⅝	6¾	7⅛
Weight Each, lbs.	5½	6½	7¼	8½
Each, Without Handles	$8.30	8.80	9.50	10.50



TUTTLE TOOTH

No. DE149—14x19 Gauge

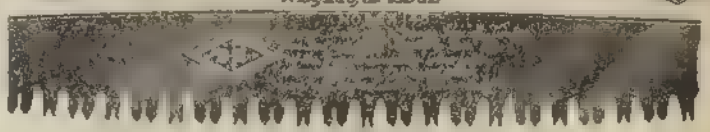
14 Gauge at Tooth Edge; Back, 16 Gauge at Ends, Tapering to 19 Gauge at Center; Polished and Etched.

Length, Feet	5½	6	6½	7
Width at Center, in.	7⅛	7¼	7½	7¾
Weight Each, lbs.	6½	7¼	8¾	9½
Each, Without Handles	$6.40	7.10	7.70	8.20

Each Saw Wrapped in Paper with Wood Strip on Cutting Edge.

WE SHIP ALL CROSS CUT SAWS NAILED TO BOARDS.

CROSS-CUT SAWS
★DIAMOND EDGE



DIAMOND TOOTH

No. DEX148—14x18 Gauge

14 Gauge at Tooth Edge; Back, 16 Gauge at Ends, Tapering to 18 Gauge at Center; Polished and Etched.

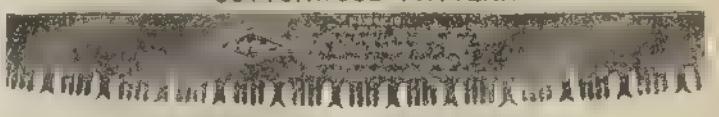
Length, Feet	5½	6	6½
Width at Center, inches	5⅜	5¾	5⅞
Weight Each, lbs.	4½	5½	6
Each, Without Handles	$6 60	7.20	8.00

Moss Back—LANCE TOOTH—PERFORATED

No. DE1418—14x18 Gauge

14 Gauge at Tooth Edge; Back, 16 Gauge at Ends, Tapering to 18 Gauge at Center; Polished and Etched.

Length, Feet	5½	6	6½	7
Width at Center, in.	5¾	6¼	6⅝	6⅞
Weight Each, lbs.	5	6	7½	8½
Each, Without Handles	$7 50	8.00	8 80	8.50



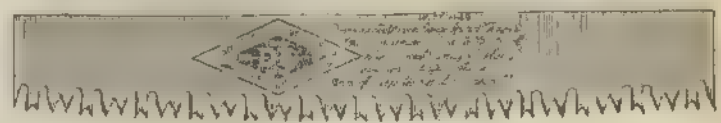
COTTONWOOD PATTERN

LANCE TOOTH—PERFORATED

No. DEX18—14x18 Gauge

Medium Width Blade; Four Cutting Teeth to One Raker Tooth.
14 Gauge at Tooth Edge; Back, 16 Gauge at Ends, Tapering to 19 Gauge at Center; Polished and Etched.

Length, Feet	5½	6	6½	7
Width at Center, in.	5½	5¾	6	6¼
Weight Each, lbs.	5¼	6	6½	7¼
Each, Without Handles	$8.00	8.80	9.50	10.30

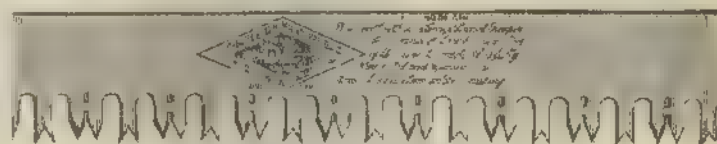


TUTTLE TOOTH

No. DEX149—14x19 Gauge

Medium Width Blade; Two Cutting Teeth to One Raker Tooth; 14 Gauge at Tooth Edge; Back, 16 Gauge at Ends; Tapering to 19 Gauge at Center, Polished and Etched

Length, Feet	6	6½
Width at Center, inches	7⅜	7
Weight Each, lbs.	6½	7
Each, Without Handle	$8 80	9 60



DIAMOND TOOTH—PERFORATED

No. DEX14—14x19 Gauge

Medium Width Blade; Two Cutting Teeth to One Raker Tooth.
14 Gauge at Tooth Edge; Back, 16 Gauge at Ends, Tapering to 19 Gauge at Center, Polished and Etched.

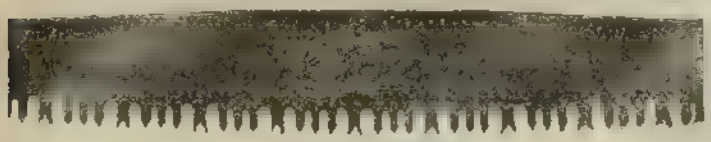
Length, Feet	6	6½
Width at Center, inches	5¾	6
Weight Each, lbs.	6	6½
Each, Without Handles	$8 80	9.50

Each Saw Wrapped in Paper with Wood Strip on Cutting Edge.

WE SHIP ALL CROSS CUT SAWS NAILED TO BOARDS

CROSS-CUT SAWS
★BRIDGE

Made of Extra Quality Saw Steel; Polished and Etched; Tempered in Oil; Carefully Ground, Filed and Set.



LANCE TOOTH

No. B118—14x18 Gauge

14 Gauge at Cutting Edge; 18 Gauge at Back Edge

Length, Feet	5	5½	6
Width at Center, in	6¾	7	7⅛
Weight Each, lbs.	5½	6½	7
Each, without Handles	$5.00	5.50	6.00
Length, Feet		6½	7
Width at Center, in.		7⅛	7¼
Weight Each, lbs.		7½	8
Each, without Handles		$6.50	7.00

LANCE TOOTH—PERFORATED

No. B100—14x18 Gauge

14 Gauge at Cutting Edge; 18 Gauge at Back Edge

Length, Feet	5½	6	6½	7
Width at Center, in	7	7⅛	7⅛	7¼
Weight Each, lbs.	6	7	7½	8
Each, without Handles	$5.30	5.70	6.00	6.80

TUTTLE TOOTH

No. B148—14x18 Gauge

14 Gauge at Cutting Edge; 18 Gauge at Back Edge

Length, Feet	5	5½	6	6½
Width at Center, in.	6⅞	7	7⅛	7⅜
Weight Each, lbs.	5	5½	7	8
Each, without Handles	$4.70	5.00	5.50	6.00

PLAIN TOOTH

No. BP2—14x18 Gauge

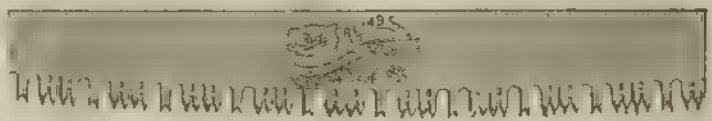
14 Gauge at Cutting Edge; 16 Gauge at Back Edge

Length, Feet	4½	5	5½	6
Width at Center, in.	6⅝	6¾	7	7⅛
Weight Each, lbs.	4½	5	6½	7
Each, without Handles	$4.00	4.70	5.00	5.50

WE SHIP ALL CROSS CUT SAWS NAILED TO BOARDS.

CROSS-CUT SAWS
★BRIDGE

Made of Extra Quality Saw Steel; Polished and Etched; Tempered in Oil; Carefully Ground, Filed and Set.



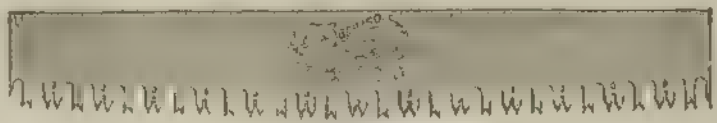
COTTONWOOD PATTERN

LANCE TOOTH—PERFORATED

No. BL149—14x19 Gauge

Medium Width Blade; Four Cutting Teeth to One Raker Tooth; 14 Gauge at Tooth Edge; Back, 16 Gauge at Ends, Tapering to 19 Gauge at Center.

Length, Feet	5½	6
Width at Center, inches	5½	5¾
Weight Each, lbs.	5¼	6
Each, without Handles	$5 00	5.40
Length, Feet		6½
Width, at Center, inches		6
Weight Each, lbs.		6½
Each, without Handles		$7.00

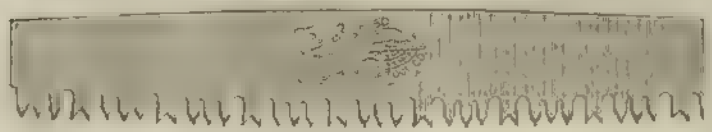


DIAMOND TOOTH—PERFORATED

No. BDP151—14x19 Gauge

Medium Width Blade; Two Cutting Teeth to One Raker Tooth; 14 Gauge at Tooth Edge; Back, 16 Gauge at Ends, Tapering to 19 Gauge at Center.

Length, Feet	5½	6
Width at Center, inches	5½	5¾
Weight Each, lbs.	5¼	6
Each, without Handles	$5 70	6 30
Length, Feet		6½
Width, at Center, inches		6
Weight Each, lbs.		6½
Each, without Handles		$6 50



DEXTER TOOTH

No. BD150—14x18 Gauge

Medium Width Blade; Three Cutting Teeth to One Raker Tooth; 14 Gauge at Tooth Edge; Back, 16 Gauge at Ends, Tapering to 18 Gauge at Center.

Length, Feet	5½	6
Width at Center, inches	5½	5¾
Weight Each, lbs.	5¼	6
Each, without Handles	$5 70	6 30
Length, Feet		6½
Width at Center, inches		6
Weight Each, lbs.		6½
Each, without Handles		$6 50

WE SHIP ALL CROSS CUT SAWS NAILED TO BOARDS.

HUNTING KNIVES

EMPIRE

★DIAMOND EDGE

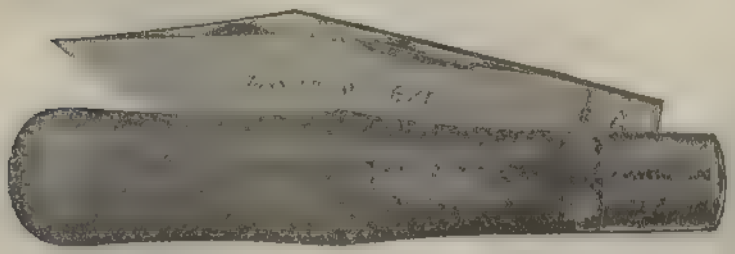
Lock Back; Length 4½ inches; Flat Thin Pattern; Scored German Silver Biased Bolsters; Diamond Shield; Brass Lining; One Large Clip, Beveled or Saber Blade; Half Polished and Etched; Weight Per Dozen 3½ Lbs.

Per Dozen

No. 1S79¾ST -Patent Stag Handle.....$28 00

No. 1S79¾E Genuine Ebony Handle.....27 00

Half Dozen in a Box



Plain Back; Length 5¼ inches; Polished Steel Rat Tail Bolsters; One Large Clip Blade, Glazed and Etched; Iron Lining; German Silver Shield; Weight per Dozen 4½ lbs.

★DIAMOND EDGE

Per Dozen

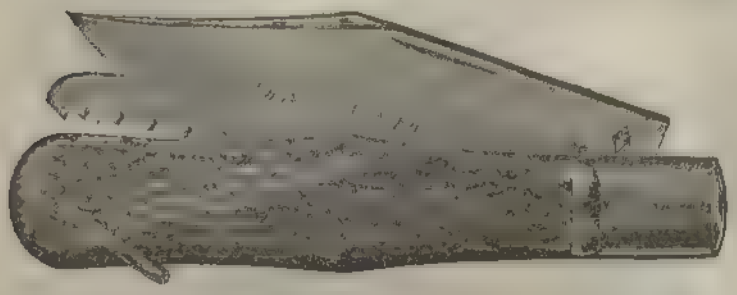
No. 1S78¾E—Ebony Handle.....$17.00

★EMPIRE

Per Dozen

No. 1E78¾E—Ebony Handle.....$17.00

Half Dozen in a Box



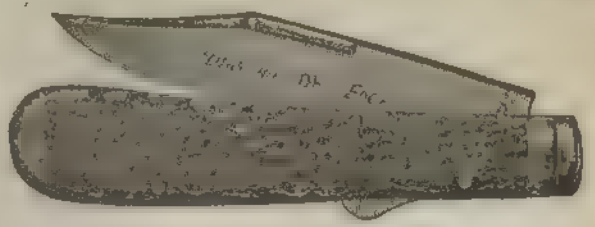
Plain Back; Brass Wire Bail; Length 5¼ inches; Polished Steel Rat Tail Bolsters; One Large Clip and One Large Saw Blade, Glazed and Etched; Iron Lining; German Silver Shield; Weight per Dozen 5¼ lbs.

★DIAMOND EDGE

Per Dozen

No. 2S78¾CS ST—Patent Stag Handle; One Large Spear and One Large Clip Blade.....$24.00

Half Dozen in a Box



Lock Back; Length 4½ inches; Polished Steel Rat Tail Bolsters; One Large Clip Blade; Quarter Polished and Etched; Iron Lining; No Shield; Weight per Dozen 2¼ lbs.

DIAMOND EDGE

Per Dozen

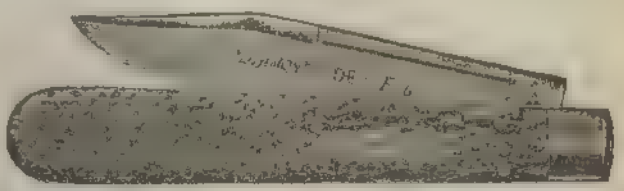
No. 1S77¾ST—Patent Stag Handle.....$21.60

★EMPIRE

Per Dozen

No. 1E77¾ST—Patent Stag Handle.....$17.30

Half Dozen in a Box



Lock Back; Length 4½ inches; German Silver Flush Bolsters; One Large Clip Blade; Half Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

★DIAMOND EDGE

Per Dozen

No. 1S17¾ST—Patent Stag Handle.....$21.60

★EMPIRE

Per Dozen

No. 1E17¾ST—Patent Stag Handle.....$21.60

Half Dozen in a Box

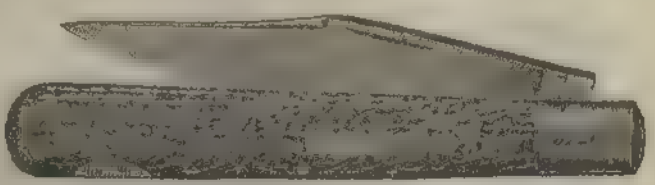
★BRIDGE CUTLERY CO.

Lock Back; Length 4⅝ inches; Polished Steel Rat Tail Bolsters; One Large Clip Blade; Half Polished and Etched; Iron Lining; No Shield; Weight per Dozen 2½ lbs.

Per Dozen

No. 1B77¾ST—Patent Stag Handle.....$21.60

Half Dozen in a Box



★G. W. PUTNAM & CO.

Lock Back; Length 4½ inches; Polished Steel Flush Bolsters; One Large Clip Blade, Glazed; Iron Lining; German Silver Shield; Weight per Dozen 2½ lbs.

Per Dozen

No. P1106ST—Patent Stag Handle.....$10 00

Half Dozen in a Box

HUNTING KNIVES

Lock Back; Length 3⅞ inches; German Silver Fancy Scored Bolster with Guard and Beveled Flush Cap One Large Spear Blade; Full Polished Brass Lining; No Shield; Weight per Dozen 16 ozs.

Per Dozen

No. C1001P —Pearl Handle **$32.00**

Half Dozen in a Box

NOTE—The Large Blades on These Knives are Locked When Open; to Release, Press Down on Small Blade and Close in the Usual Manner

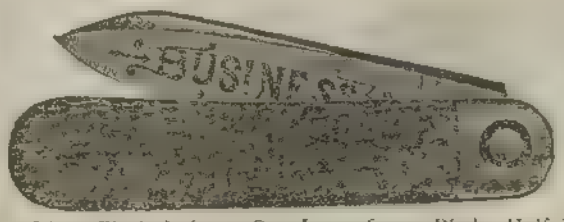
I*XL—GEORGE WOSTENHOLM & SON

Lock Back; Length 4⅛ inches; Polished Steel Rat Tail Bolster; One Large Clip Blade, Half Polished, Iron Lining; No Shield; Weight per Dozen 2½ lbs.

Per Dozen

No. B17063—Patent Stag Handle..... **$15.00**

Half Dozen in a Box

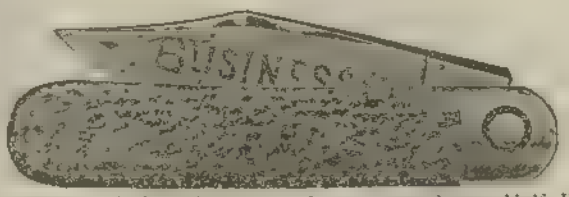


Press Button; Length 3⅞ inches; German Silver Flush Bolster; One Large Spear Blade, Half Polished and Etched; Iron Lining; No Shield. Weight per Dozen 2½ lbs.

Per Dozen

No. K500 -Patent Stag Handle **$17.00**

Half Dozen in a Box

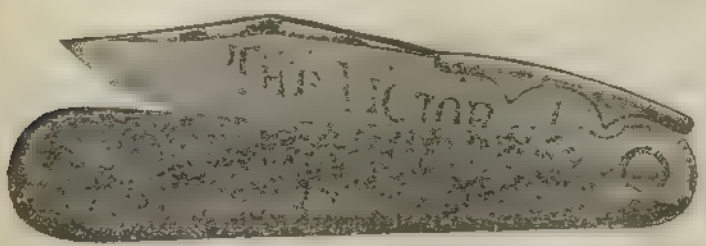


Press Button; Length 3⅞ inches, German Silver Flush Bolster, One Large Clip Blade; Half Polished and Etched; Iron Lining; No Shield. Weight per Dozen 2½ lbs.

Per Dozen

No. K510 Patent Stag Handle..... **$17.00**

Half Dozen in a Box

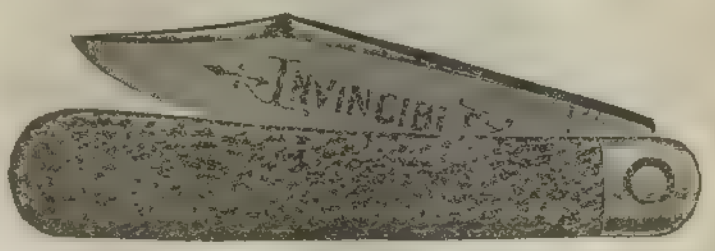


Press Button; Length 4⅛ inches, German Silver Flush Bolster; One Large Clip Blade with German Silver Guard, Half Polished and Etched, Iron Lining; No Shield, Weight per Dozen 2¾ lbs

Per Dozen

No. K1005—Patent Stag Handle..... **$19.00**

Half Dozen in a Box



Press Button; Length 4⅜ inches; German Silver Flush Bolster; One Large Clip Blade Without Guard, Half Polished and Etched; Iron Lining; No Shield; Weight per Dozen 3½ lbs.

Per Dozen

No. K1000—Patent Stag Handle..... **$19.00**

Half Dozen in a Box

DIAMOND EDGE HAND SAWS

"DIAMOND EDGE IS A QUALITY PLEDGE"

DIAMOND EDGE HAND SAWS

"DIAMOND EDGE IS A QUALITY PLEDGE"

SHAPLEIGH HARDWARE CO.
D.E
D.AMOND EDGE

NORLEIGH DIAMOND
SCREEN DOOR LATCHES

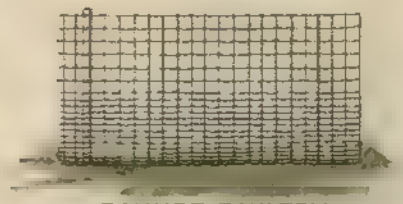
NORLEIGH DIAMOND
SCREEN DOOR SPRINGS

SCREEN DOOR
HINGES Nº1888

CONTINENTAL
WINDOW SCREENS

CONTINENTAL
SCREEN DOORS

SCREEN DOOR
SETS Nº1750



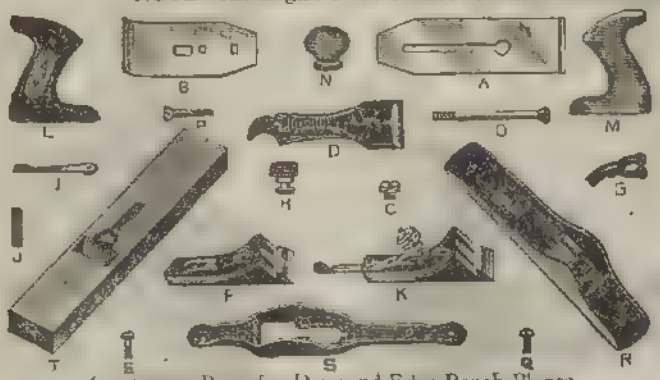
BANNER POULTRY
FENCE

DIAMOND EDGE IS A QUALITY PLEDGE

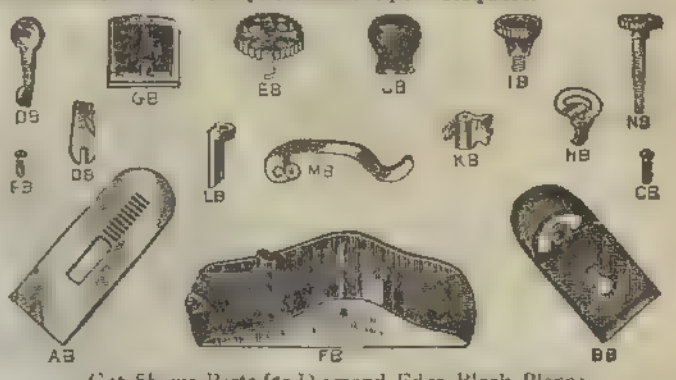
PLANE PARTS

In Ordering Always Give Kind and Number of Plane for Which Part is Wanted, as Well as the Figure Number of the Part Wanted. Ten Cents will be the Minimum Charge for Any Part Sent by Mail.

NOTE—All Light Face Prices Given on this Page are Manufacturers Lists. Quotations Upon Request.



Cut Shows Parts For Diamond Edge Bench Planes



Cut Shows Parts for Diamond Edge Block Planes

PARTS FOR ★DIAMOND EDGE IRON BENCH PLANES

Nos.	Name of Part	For Planes No. DE3	For Planes No. DE4	For Planes No. DE4½	For Planes No. DE5	For Planes No. DE5½	For Planes No. DE6	For Planes No. DE7	For Planes No. DE8
A	Single Plane Iron	$0 23	$0 25	$0 25	$0 29	$0 28	$ 29	$0 29	$ 32
B	Top Plane Iron	✣ .15	✣ .17	✣ .19	✣ .17	✣ 19	✣ .19	✣ .19	✣ .18
C	Plane Iron Screw	.05	.05 ✣	.05	.05 ✣	.05 ✣	.05 ✣	.05 ✣	.05
D	Cap	.25	.25	.25	.25	.25	.25	.25	.25
E	Cap Screw	✣ .05	✣ .05	✣ .05	✣ 05	✣ 05	✣ .05	✣ .05	✣ .05
F	Frog Only	.20	.20 ✣	.20	20 ✣	.20	.20	.20	.20
G	Y Adjustment	✣ 05	✣ 05 ✣	05 ✣	05 ✣	05 ✣	05 ✣	05	05
H	Brass Adjusting Nut	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	.10
I	Lever Only	✣ 05	✣ 05	✣ .05	✣ 05	✣ .05	✣ .05	✣ .05	✣ 05
J	Frog Screw	✣ 05	✣ 05	✣ 05	✣ 05	✣ 05	✣ 05	✣ 05	✣ 05
K	Frog Complete	35	35 ✣	35 ✣	35 ✣	35	35	35 ✣	35
L	Handle for Iron Plane (See Previous Catalog Page 18)								
N	Knob	✣ .15	✣ 15	✣ 15	.15	✣ 15	✣ 15	✣ 15	✣ 15
O	Handle Bolt	.10	.10	.10	.10	.10	.10	✣ .10	.10
P	Knob Bolt	✣ .10	✣ .10	✣ .10	✣ 10	✣ .10	✣ .10	✣ .10	✣ .10
Q	Handle Screw	✣ 05	05 ✣	05	05	05	05 ✣	05 ✣	05
R	Iron Plane Bottom	1 00	1.00 ✣	1.20 ✣	1.20 ✣	1.20 ✣	1.65 ✣	2.35 ✣	2.85

PARTS FOR ★DIAMOND EDGE WOOD BOTTOM BENCH PLANES

Nos.	Name of Part	Planes DE22, 23	Planes DE24, 35	Planes DE26, 27, 27½	Planes DE28, 29	Planes DE31	Planes DE32, 33, 34
S	Top Casting	$0 20	$ 20	$0 20	$0 20	$0 20	$0 20
T	Wood Bottom	10	10	10	10	80	80
M	Handle	.10	.10	.10	10	.10	.10

PARTS FOR ★DIAMOND EDGE BLOCK PLANES

Nos.	Name of Part	Plane DE9½	Plane DE15	Plane DEX16	Plane DEX18	Plane DEX60	Plane DEX65	Plane DEX220	Plane DE110	Plane DEX130	Plane DE120	Plane DE103	Plane DE100	Plane DE101
AB	Plane Iron	$0 40	$0 40	$0 40	$0 40	$0.40	$0 40	$0 40	$0 30	$0.30	$0 20	$0.20	$0 12	$0 12
BB	Cap Only	.10	.10	✣ .15	.20	.15	✣ .15	.10	.10	.10	.10	.10 ✣	.05 ✣	.05
CB	Cap Screw	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	...	...	...	...	...	...
EB	Adjusting Nut	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	...	...	...	...	...	...
FB	Bottom	✣ .70	✣ .75	✣ .75	✣ .70	✣ .60	✣ .75	✣ .30	✣ .25	✣ .35	✣ .15	✣ .20 ✣	10	✣ .10
HB	Eccentric Hone	✣ 10	✣ 10	✣ 10	✣ 10	✣ 10	✣ 10							
IB	Iron Knob	✣ 10	✣ 10	✣ 10	✣ 10	✣ 10	✣ 10							
JB	Wood Knob	...	...	...	...	...	...	✣ .10	✣ .10	✣ .10	...	...	...	
KB	Adjusting Frog	...	...	...	...	...	...	✣ .10	...	...				
LB	Adjusting Frog	...	...	...	...	✣ .10	✣ .10	...	...	...	...	...	...	...
MB	Lateral Lever	✣ .10	✣ .10	✣ .10	✣ .10	...	...	...	...	...	...			
NB	Adjusting Screw	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10						
OB	Ajustment Dog	✣ .05	✣ 05	✣ .05	✣ .05	✣ ...	✣ ...	...	...	...	...	...		
PB	Lever Screw	✣ .05	✣ .05	✣ .05	✣ .05	✣ 05	✣ 05	...	...	...				

Items Marked ✣ Not carried in Stock; Can Only be Furnished by Shipping Direct from Factory, New Britain, Conn.

PLANE PARTS

In Ordering Always Give Kind and Number of Plane for Which Part is Wanted, as Well as the Figure Number of the Part Wanted. Ten Cents will be the Minimum Charge for Any Part Sent by Mail.

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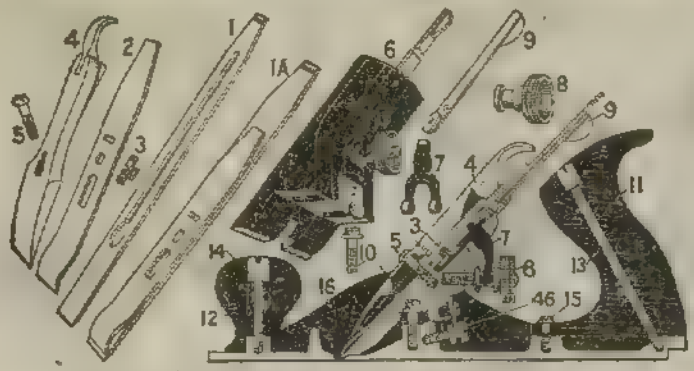
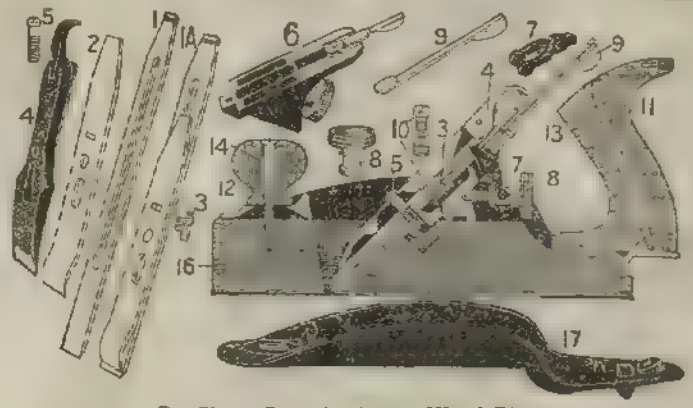


Cut Shows Parts for Bridge Tool Co. and Bailey Iron Planes

PARTS FOR BRIDGE TOOL CO. AND BAILEY IRON PLANES.

No.	Name of Part	Planes 1	Planes 2-2C	Planes 3-3C	Planes 4-4C	Planes 4½-4½C	Planes 5-5C	Planes 5½-5½C	Planes 6-6C	Planes 7-7C	Planes 8-8C
1A	Double Plane Iron	$0 32	$0 35	$0.38	$0 42	$0 48	$0 42	$0 ,~	$0 48	$0 48	$0 50
1	Single Plane Iron	.18	.21	.23	.26	.29	.25	.28	.29	.29	32
2	Plane Iron Cap	✣ .14	.14	.15	✣ .17	✣ .19	.17	✣ .19	✣ .19	.19	✣ 18
3	Cap Screw	✣ .05	.05	.05	✣ .05	✣ .05	.05	✣ .05	.05	✣ 05	✣ 05
4	Lever Cap	✣ .25	.25	.25	.25	✣ .25	.25	.25	.25	.25	25
5	Lever Cap Screw	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	.05	✣ .05	✣ .05	✣ 05	✣ 05
6	Frog Complete	✣ .35	✣ .35	✣ .35	✣ .35	✣ .35	.35	✣ .35	✣ .35	✣ .35	✣ 35
7	"Y" Adjusting Lever	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	.05	✣ .05	✣ .05	✣ .05	✣ 05
8	Adjusting Nut	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ 10
9	Lateral Adj. Lever	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ 10
10	Frog Screw	✣ .05	✣ .05	✣ .05	✣ .05	✣ 05	✣ .05	✣ .05	✣ .05	✣ 05	✣ 05
11	Plane Handle	✣ .20	✣ .20	✣ .20	✣ .20	✣ .20	.20	✣ .20	✣ .20	✣ .20	✣ 20
12	Plane Knob	✣ .15	✣ .15	✣ .15	.15	✣ .15	.15	✣ .15	✣ .15	✣ 15	✣ 15
13	Handle Bolt & Nut	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	.10	✣ 10	✣ .10	✣ .10	✣ 10
14	Knob Bolt & Nut	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ 10
15	Plane Handle Screw	....	....	....	....	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ 05
16	Plane Bottom	✣ .65	✣ .85	✣ 1.00	1.00	✣ 1.20	✣ 1.20	✣ 1.20	✣ 1.65	✣ 2.35	✣ 2 85
16	Frog Adj. Screw	✣ .05	✣ .05	✣ .05	✣ 05	✣ .05	✣ 05	✣ .05	✣ .05	✣ 05	✣ 05



Cut Shows Parts for Bailey Wood Planes

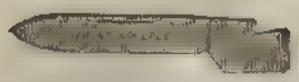
PARTS FOR BAILEY WOOD PLANES

No.	Name of Part	Planes 21,22,23	Planes 24,25,35	Planes 26	Planes 27	Planes 27½	Planes 28,29	Planes 30,30	Planes 32,33,34	Planes 36	Planes 37
1A	Double Plane Iron	$0 38	$0 42	$0 42	$0 45	$0 47	$0 48	~ 8	$0 50	$, 8	$0 50
1	Single Plane Iron	23	25	25	,27	28	.29	29	.32	29	32
2	Plane Iron Cap	✣ .15	✣ .17	✣ .17	✣ .18	✣ .19	✣ .19	✣ .19	✣ .18	✣ .9	✣ 18
3	Cap Screw	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ 05	✣ .05	✣ 15	✣ 05
4	Lever Cap	✣ .20	✣ .20	✣ .20	✣ .20	✣ 20	✣ .20	✣ 20	✣ .20	✣ 20	✣ 2
5	Lever Cap Screw	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ 05	✣ .05	✣ 05	✣ 05
6	Frog Complete	✣ .30	✣ 30	✣ 30	✣ .30	✣	✣ .30	✣ 0	✣ .3	30	✣ 30
7	"Y" Adjusting Lever	✣ .05	✣ 05	✣ 05	✣ 05	✣	✣ 05	✣ 05	✣ 05	✣ 05	✣ 05
8	Adjusting Nut	✣ .10	✣ 10	✣ 10	✣ 10	✣	✣ .10	✣ .10	✣ .10	✣ 0	✣ 10
9	Lateral Adj. Lever	.10	✣ .10	✣ .10	✣ 10	✣ .10	✣ .10	✣ .10	✣ .10	✣ 0	✣ .10
10	Frog Screw and Bushing	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ 10	✣ .10	✣ 0	✣ 10
11	Plane Handle	....	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ 10	✣ .10
12	Plane Knob	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ 10	✣ 10
13	Handle Bolt & Nut	....	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ 10	✣ 10
14	Knob Bolt & Nut	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ 10	✣ 10
16	Plane Bottom	✣ .40	✣ .40	✣ .50	✣ .50	✣ .50	✣ .70	✣ .80	✣ .85	✣	✣ 70
17	Top Casting	✣ .20	✣ 20	✣ .20	✣ .20	✣ .20	✣ .20	✣ .20	✣ .20	✣ 2	✣ 20

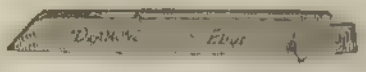
Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, New Britain, Conn.

DIAMOND EDGE POCKET KNIVES

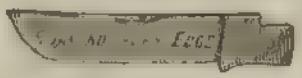
NAMES OF BLADES



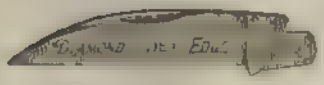
SMALL PEN BLADE



COPING BLADE

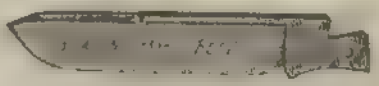


BUDDING BLADE

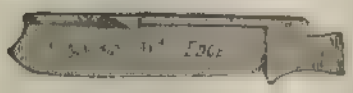


WHARNCLIFFE BLADE

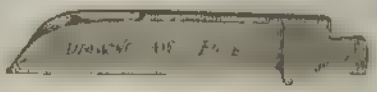
SPEAR BLADE



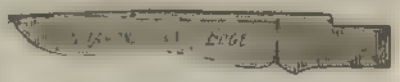
SPEYING BLADE



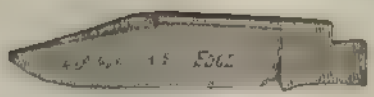
RAZOR BLADE



SHEEP FOOT OR CONGRESS BLADE

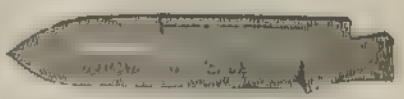


CORN KNIFE BLADE



CLIP BLADE

PRUNING BLADE



SABER BLADE

DIAMOND EDGE POCKET CUTLERY

Our DIAMOND EDGE Pocket Knives are celebrated for their superior quality, style and finish. They are unsurpassed by any others. The blades are forged from The Celebrated Thomas Firth & Sons English Pocket Cutlery Steel, and are hardened and finely tempered by the most skilled and experienced cutlers. Their walk and talk is of unusual ease. Every knife is sharpened ready for use and is guaranteed free from flaws and imperfections. Any not proving so will be replaced; but we will not redeem knives that are worn out or that show abuse or when more than one blade is broken. In whetting a pocket knife use a good oil stone, holding the blade at an angle of twenty degrees, and draw towards you from heel to point. Oil the joints occasionally, as they are liable to wear rough and the blade points protrude.

Shapleigh Hardware Co., St. Louis, U.S.A.

The Above is a Fac-Simile of the Wrapper Placed Around Each DIAMOND EDGE Pocket Knife

POCKET KNIFE ASSORTMENTS

*DIAMOND EDGE

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED

Per Assortment

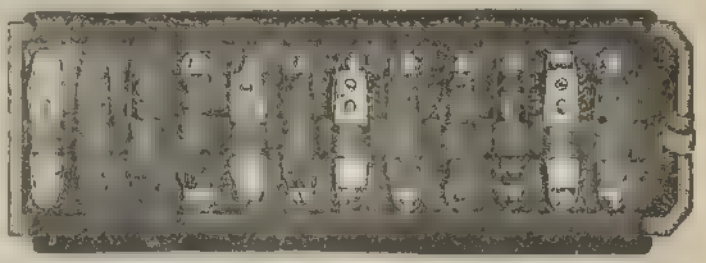
No. DF6/2—Contains Six Cattle Knives; Three Blades; Three with Special Bull Dog Cattle [illegible], Sheep Foot and Speying Blade, and Three with Large [illegible], Sheep Foot and Speying Blades; Assorted Handles, Dark Gray and Golden Pearl Pyralin; the Three Gray Pearl Handle Knives or Bull Dog Cattle Knife Pattern and the Three Golden Pearl, are Octo Bovine Cattle Knife Pattern; Lengths 3⅝ and 3⅞ inches; Heavy German Silver Bolsters and Shield; Half Crocus Polished and Etched Blades; Brass Lined; Weight per Assortment 1½ lbs. **$27.00**

Each Assortment put up in a Green Plush Lined Display Box, 9 inches Long and 7 inches High.

Per Assortment

No. 2S406A(Contains Twelve Pen Knives; Two Blades, small [illegible], Assorted Pearl Handles to Choose; TWO each Golden Pearl, Gray Pearl, Red Dots, Brown and White, Red and Black Stripes, White and Black Stripes; Length 3⅜ inches; guaranteed Silver Bolsters, German Silver Linings; Size of Rolls 11x7 inches; Weight per Assortment [illegible] ounces **$9 00**

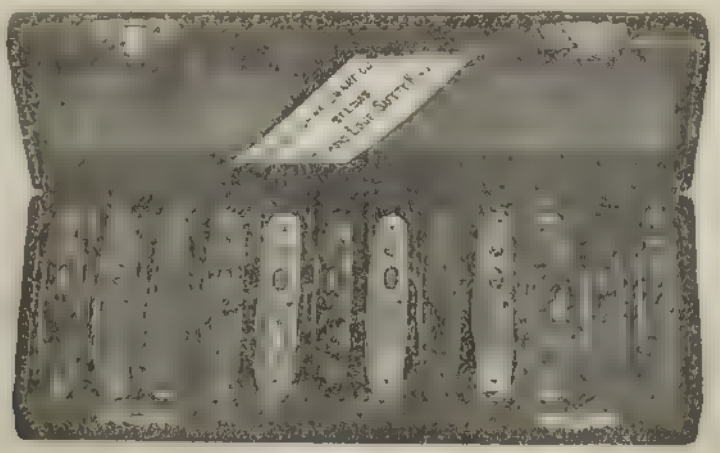
Each Assortment put up in a Drab Canvas Roll, Green Plush Lined.



Per Assortment

No. S87PB Contains Twelve Knives; Two Blades, Assorted Handles, Length [illegible] inches; Cocobolo Celluloid, Dark Golden Oak, Ivory Celluloid, Tortoise Shell Celluloid, Stag and Pearl Combination Sets, Mother of Pearl, Nickel Silver Tipped Handles; Half Crocus Polished and Nickel Brass Lining; German Silver Press Buttons and Shield **$27 00**

Each Assortment in a Drab Canvas Roll, Green Plush Lined; Size of Roll 18x4 inches; Weight per Assortment 2 lbs.



*DIAMOND EDGE SAFETY PRESS BUTTON

(U. S. Patent 812,601 and 843,190)

Different from any Other Safety Press Button Pocket Knife on the Market. Has a Safety Lock which Locks the Blade While it is Open and Also Locks it When it is Closed. It is Impossible to Close the Knife or the Blade Fly Back Over the Knife Open in One's Pocket. It is Stronger, Simpler and Better Constructed than any Other Press Button Knife on the Market. All Jobs Have Patented Agate Wear-Proof Bushings of the celebrated *DIAMOND EDGE Quality and are FULLY GUARANTEED

Per Assortment

No. SPB Contains Twelve Knives; Two Blades, Length 3⅜ inches, Assorted Handles, Cocobolo, Black Fibre, Celluloid, Ivory Celluloid, Tortoise Shell Celluloid, Stag and Pearl Combination Sets, Mother of Pearl, Nickel Silver Tipped Handles; Half Crocus Polished and Nickel Brass Lining; German Silver Press Buttons and Shield **$15 00**

Each Assortment in a Drab Canvas Roll, Green Plush Lined; Size of Roll 18x4 inches; Weight per Assortment 2 lbs. Each Assortment put up in a Red Silk; Two Fancy Brass Clasps; Size of Case 10¾x4x1½ inches; Weight per Assortment 1½ lbs

POCKET KNIFE ASSORTMENTS

★BRIDGE

Bridge

These Assort[illegible] Assembled especially for Dealers who do Not Wish to Carry a Large Stock. Th[illegible] Good Sellers and are Put up in Green Plush and Silk Lined Boxes. All Knives are of Highest Quality American Make, Wardlows Grade English Steel Blades.

An Excellent Assortment of 10/90 Gold Handle, Beautifully Embossed with Mason, Odd Fellow, Elk, Knights of Columbus, Modern Woodmen of the World and Knights of Pythias Lodge Emblems, Blades of Good Grade English Crucible Steel

Per Assortment

No. BO77G—Size of Box 6½x4 inches; Weight 11 ozs..... **$18 00**
Six in a Box.

An Excellent Assortment of 10/60 Gold Handle Knives, Highly polished; Beautifully Engraved with Floral Designs; Blades of Good Grade English Crucible Steel.

Per Assortment

No. B001G—Size of Box 6½x4 inches; Weight 11 ozs..... **$13 00**
Six in a Box.

An Excellent Assortment of 10/60 Gold Handle Knives; Highly polished; Beautifully Engraved with Floral Designs; Blades of Good Grade English Crucible Steel.

Per Assortment

No. B15G—Size of Box 6½x4 inches; Weight 11 ozs..... **$13.00**
Six in a Box.

POCKET KNIFE ASSORTMENTS

★BRIDGE

Bridge

These Assortments have been Assembled Especially for Dealers who do not wish to carry a Large Stock. They contain very good Sellers and are put up in Drab Canvas Rolls, Green Plush Lined, and in such a manner that each Knife is Clearly Displayed and Easily Accessible. All Knives Displayed are of a High Quality American Make with Wardlows English Steel Blades.

Per Assortment

No. B66/12—Contains Twelve Pen Knives; Two Blades, Six with Large and Small Pen Blades and Six with Large Pen and [illegible] Blades; Assorted **Pyralin Handles** as follows; Turquoise [illegible], Golden Pearl, Ivory, Drab Gray, Cocobolo, [illegible] Onyx, [illegible] Onyx, Tortoise Shell, Gray Agate, Brown [illegible], Length 2¾ inches; Guaranteed Silver [illegible], Brass Lining, Size of Roll 21[illegible], Weight per Assortment 8 ozs.. ..... **$10 00**

Per Assortment

No. B70/12—Contains Twelve Pen Knives; Two Blades, One Large Wharncliffe and One File Blade; **Assorted Pyralin Handles;** Golden Pearl, Agate Gray, Gray Pearl, Carmine Agate, Turquoise Blue Agate a Tortoise Shell; Length 3¼ inches; Ends Untipped; Half Crocus Polished Blades; Brass Lining, Size of Roll 17½x5 inches; Weight per Assortment 16 ozs. **$12 00**

Per Assortment

No. B73/12—Contains Twelve Pen Knives; Two Blades; Eight with Large and Small Pen Blades; Two with Large Wharncliffe and Small Pen Blades; and Two with Large Pen and File Blades, **Beautiful Genuine Abalone Pearl Handles;** Length 3 inches; Half Crocus Polished Blades; German Silver Lining; Size of Rolls 17½x5 inches.
Weight per Assortment 16 ozs..... **$30.00**

SINGLE BIT AXES
*DIAMOND EDGE
Full Polished and Etched

DIAMOND EDGE Axes are Recognized as Being the Best Made. They are Hand Tempered by [illegible] Axe Expert, by Test before Leaving the Factory. This Practically Prevents Axes with [illegible] Breaking the User. It also Insures Uniformity of [illegible] Axes Will not Hold a Fine Sharp Cutting Edge. [illegible] Cast Steel [illegible] Properly Tempered and Ground. Soft Steel Body. The Eye is punched from Solid Steel and will not Stretch nor Break, as Occurs with Axes Having a Rolled or Welded Eye. The Eye is Tapered from the Cutting to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting

In Ordering Axes on this Page, Give Numbers and Weights Only

UNHANDLED
Full Polished and Etched

No. DE150 DAYTON PATTERN
Wide Bit; Square Head

Weights, Assorted	3/4	3 1/2-4 1/2	4/5
Per Dozen	$21 00	21.50	22.00

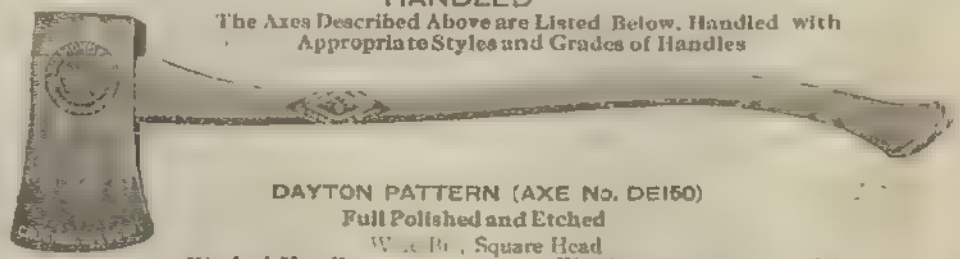
No. DE250 MICHIGAN PATTERN
Wide Bit; Round Head

Weights, Assorted	3/4	3 1/2-4 1/2	4/5
Per Dozen	$21 00	21 50	22 00

One Dozen of Each Assortment in a Box; Average Weight per Box 55 lbs.

HANDLED
The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

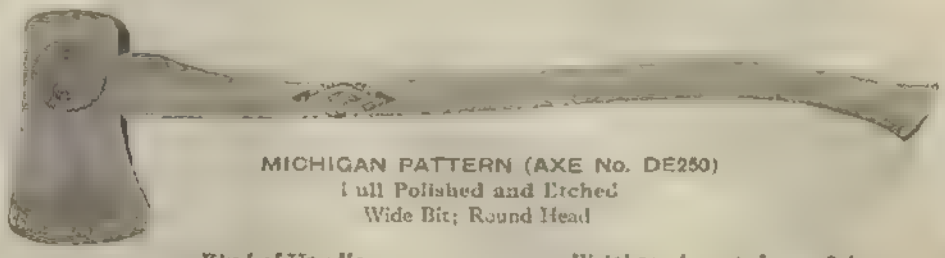


DIAMOND EDGE Axe Wedge Used in All Our Handled Axes. Full Description on Page 3.

DAYTON PATTERN (AXE No. DE150)
Full Polished and Etched
Wide Bit; Square Head

Kind of Handle	Weights, Assorted	4/5	3 1/2-4 1/2	4/5
No. DE150AAA—With No. AAA Norleigh Diamond Octagon, Plain End	Per Dozen	$28 50	$29 00	$29 50
No. DE150BBB—With No. BBB Norleigh Diamond Oval, Plain End	"	28 50	29 00	29 50
No. DE150A—With No. A Norleigh Diamond Octagon, Scroll End	"	28 00	28 50	29 00
No. DE150L—With No. B Norleigh Diamond Oval, Scroll End	"	28 00	28 50	29 00
No. DE150BN—With No. BN Norleigh Diamond Oval, Plain End, Light Northern	"	28 00	28 50	29 00
No. DE150C—With No. C Favorite Octagon, Scroll End	"	27 00	27 50	28 00
No. DE150D—With No. D Favorite Oval, Scroll End	"	27 00	27 50	28 00
No. DE150DN—With No. DN Favorite Oval, Plain End, Light Northern	"	27 00	27 50	28 00
No. DE150FH—With No. FH Favorite Octagon, Plain End	"	27 00	27 50	28 00
No. DE150E—With No. E Tip Top Octagon, Plain End	"	26 00	26 50	27 00
No. DE150XE—With No. XE Tip Top Octagon, Straight Pattern	"	26 00	26 50	27 00
No. DE150F—With No. F Tip Top Oval, Plain End	"	26 00	26 50	27 00
No. DE150XF—With No. XF Tip Top Oval, Straight Pattern	"	26 00	26 50	27.00
No. DE150TTN—With No. TTN Tip Top Oval, Plain End, Light Northern	"	26 00	26 50	27 00
No. DE150L—With No. L Mound City Oval, Plain End	"	25 00	25 50	26 00
No. DE150FO—With No. FO Favorite Oval, Scroll End, Oak	"	26 00	26 50	27 00
No. DE150LO—With No. LO Live Oak Oval, Plain End, Oak	"	26 00	26 50	27 00
No. DE150PLO—With No. PLO Mound City Octagon, Plain End	"	25 00	25 50	26 00

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE



MICHIGAN PATTERN (AXE No. DE250)
Full Polished and Etched
Wide Bit; Round Head

Kind of Handle	Weights, Assorted	3/4	3 1/2-4 1/2	4/5
No. DE250AAA—With No. AAA Norleigh Diamond Octagon, Plain End	Per Dozen	$28 50	$29 00	$29 50
No. DE250BBB—With No. BBB Norleigh Diamond Oval, Plain End	"	28 50	29 00	29 50
No. DE250A—With No. A Norleigh Diamond Octagon, Scroll End	"	28 00	28 50	29 00
No. DE250L—With No. B Norleigh Diamond Oval, Scroll End	"	28 00	28 50	29 00
No. DE250BN—With No. BN Norleigh Diamond Oval, Plain End, Light Northern	"	28 00	28 50	29 00
No. DE250C—With No. C Favorite Octagon, Scroll End	"	27.00	27.50	28 00
No. DE250D—With No. D Favorite Oval, Scroll End	"	27 00	27 50	28 00
No. DE250DN—With No. DN Favorite Oval, Plain End, Light Northern	"	27.00	27 50	28 00
No. DE250FH—With No. FH Favorite Octagon, Plain End	"	27 00	27 50	28 00
No. DE250E—With No. E Tip Top Octagon, Plain End	"	26.00	26 50	27 00
No. DE250XE—With No. XE Tip Top Octagon, Straight Pattern	"	26 00	26 50	27 00
No. DE250F—With No. F Tip Top Oval, Plain End	"	26 00	26 50	27 00
No. DE250XF—With No. XF Tip Top Oval, Straight Pattern	"	26 00	26.50	27.00
No. DE250TTN—With No. TTN Tip Top Oval, Plain End, Light Northern	"	26 00	26.50	27.00
No. DE250L—With No. L Mound City Oval, Plain End	"	25 00	25.50	26 00
No. DE250FO—With No. FO Favorite Oval, Scroll End, Oak	"	26.00	26.50	27 00
No. DE250LO—With No. LO Live Oak Oval, Plain End, Oak	"	26.00	26.50	27.00
No. DE250PLO—With No. PLO Mound City Octagon, Plain End	"	25.00	25 50	26 00

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

SINGLE BIT AXES

*DIAMOND EDGE

(FILO DE DIAMANTE)

MEXICAN IRONWOOD

(PALOFIERRO)

DIAMOND EDGE Axes are Recognized as Being the Best Made. They are **Hand Tempered** by an Improved Process. Every Axe Carefully Tested Before Leaving the Factory. This Practically Prevents Axes with Flaws or Soft Cutting Edges Reaching the User. It also Insures Uniformity of Temper, without which an Axe will not Hold a Fine, Sharp Cutting Edge. Highest Grade **Crucible Steel** Bit, Carefully Tempered and Ground. Soft Steel Body. **The Eyes are Punched** from Solid Steel and will not Stretch nor Break, as Occurs with Axes Having a Rolled or Welded Eye. **The Eye is Tapered** from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents its Splitting.

In Ordering Axes on this Page, Give Numbers and Weights Only

DIAMOND EDGE Axe Wedge Used in All Our Handled Axes. Full Description on Page 3.

UNHANDLED

No. DEM110—MEXICAN PATTERN

Wide Bit; Round Head

High Gloss Black Enameled Body; Polished Bit and Head; Inside of Eye Painted Red

Weights, Assorted	3/4	3½ 4½	4/5	4½/6
Per Dozen	$20 00	20 50	21 00	21.50

One Dozen of Each Assortment in a Box; Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

MEXICAN PATTERN (Axe No. DEM110

High Gloss Black Enameled Body; Polished Bit and Head; Inside of Eye Painted Red

Wide Bit; Round Head

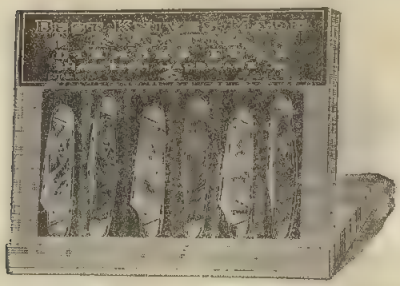
Kind of Handle	Weights, Assorted	3/4	3½ 4½	4/5	4½/6
No. DEM110AAA—With No. AAA Norleigh Diamond Octagon, Plain End.	Per Dozen	$27 50	$28 00	$28 50	$29 00
No. DEM110BBB—With No. BBB Norleigh Diamond Oval, Plain End	"	27 50	28 00	28 50	29 00
No. DEM110A —With No. A Norleigh Diamond Octagon, Scroll End.	"	27 00	27 50	28 00	28 50
No. DEM110B —With No. B Norleigh Diamond Oval, Scroll End	"	27 00	27 50	28 00	28.50
No. DEM110BN —With No. BN Norleigh Diamond Oval, Plain End, Light Northern	"	27.00	27.50	28 00	28.50
No. DEM110C —With No. C Favorite Octagon, Scroll End	"	26 00	26 50	27 00	27 50
No. DEM110D —With No. D Favorite Oval, Scroll End	"	26 00	26.50	27 00	27 50
No. DEM110DN —With No. DN Favorite Oval, Plain End, Light Northern	"	26.00	26.50	27.00	27 50
No. DEM110FH —With No. FH Favorite Octagon, Plain End	"	26 00	26 50	27 00	27 50
No. DEM110L —With No. L Tip Top Octagon, Plain End	"	25 00	25 50	26 00	26 50
No. DEM110XF —With No. XF Tip Top Octagon, Straight Pattern	"	25 00	25 50	26 00	26 50
No. DEM110F —With No. F Tip Top Oval, Plain End	"	25 00	25 50	26 00	26 50
No. DEM110XF —With No. XF Tip Top Oval, Straight Pattern	"	25 00	25.50	26 00	26 50
No. DEM110TTN—With No. TTN Tip Top Oval, Plain End, Light Northern	"	25 00	25.50	26.00	26.50
No. DEM110L —With No. L Model City Oval, Plain End	"	24 00	24 50	25 00	25.50
No. DEM110FO —With No. FO Favorite Oval, Scroll End, Oak	"	25 00	25 50	26 00	26 50
No. DEM110LO —With No. LO Live Oak Oval, Plain End, Oak	"	25 00	25 50	26 00	26 50
No. DEM110PLO—With No. PLO Model City Octagon, Plain End	"	24 40	24 50	25 00	25.50

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

POCKET KNIFE ASSORTMENTS

*DIAMOND EDGE

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED



Per Assortment

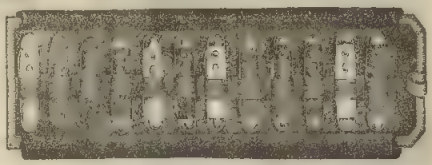
No. DE6/2—Contains Six Cattle Knives; Three Blades; Three with Special Bull Dog Cattle Blade, Sheep Foot and Speying Blade, and Three with Large Clip, Sheep Foot and Speying Blades; Assorted Handles, Drab, Gray and Golden Pearl Pyralin; the Three Gray Pearl Handle Knives or Bull Dog Cattle Knife Pattern and the Three Golden Pearl, are Octo Bovine Cattle Knife Pattern; Lengths 3⅝ and 3⅞ inches; Heavy German Silver Bolsters and Shield, Half Crocus Polished and Etched Blades; Brass Lined; Weight per Assortment 1½ lbs. . . **$27.00**

Each Assortment put up in a Green Plush Lined Display Box, 9 inches Long and 7 inches High.

Per Assortment

No. 28406AC—Contains Twelve Pen Knives; Two Blades, small and large; Assorted Pyralin Handles as follows: TWO each Golden Pearl, Mottled Brown, Red Onyx, Brown and White, Red and Black, Striped, White and Black Stripes; Length 3⅝ inches; guaranteed Silver Bolsters; German Silver Lining; Size of Rolls 11x7 inches, Weight per Assortment 10 ounces. . . **$9.00**

Each Assortment put up in a Drab Colored Canvas Roll, Green Plush lined.



Per Assortment

No. 507PB—Contains Twelve Knives; Two Blades; **Assorted Handles,** Length 3⅝ inches; Cocobolo Celluloid, Ebony Celluloid, Ivory Celluloid, Tortoise Shell Celluloid, Smoked Pearl Celluloid, Pearl Stag, and Mother of Pearl; Pearl and German Silver Tipped Ends; Half Crocus Polished and Etched Blades; Brass Lining; German Silver Press Buttons and Safety Shoes **$27.00**

Each Assortment in a Drab Canvas Roll, Green Plush Lined, Size of Roll, 18x9 inches. Weight per Assortment 3 lbs.

*DIAMOND EDGE SAFETY PRESS BUTTON

(U. S. Patent 812,601 and 845,130.)

Different From any Other Safety Press Button Pocket Knife in the Market. Has a Safety Lock which Locks the Blade While it is Open and Also Locks it when it is Closed. It is Impossible to Close the Knife on the User's Hands. It is Also Impossible for the Knife to Open in One's Pocket. It is Stronger, Simpler and Better Constructed than any Other Press Button Knife on the Market. All Joints are Protected Against Wear and Blades are of the celebrated *DIAMOND EDGE Quality and are FULLY GUARANTEED.

Per Assortment

No. SPB—Contains Twelve Knives; Two Blades, Length 3⅝ inches, **Assorted Handles,** Cocobolo Celluloid, Ebony Celluloid, Tortoise Shell Celluloid, Smoked Pearl Celluloid, Pearl Stag, and Mother of Pearl; Pearl and German Silver Tipped Ends; Half Crocus Polished and Etched Blades; Brass Lining; German Silver Press Buttons and Safety Shoes **$25.00**

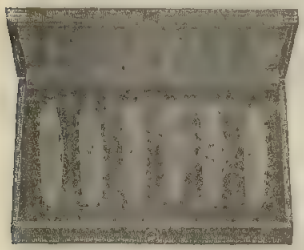
Each Assortment in a Roll, Blue Leather Finish, Lined with Red Silk, Two Fancy Brass Clasps; Size of Case 10x8x1½ inches. Weight per Assortment 3 lbs.

POCKET KNIFE ASSORTMENTS

★BRIDGE

Bridge

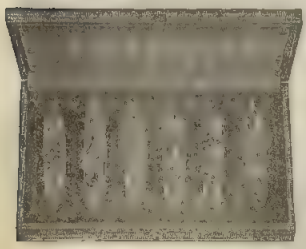
These Assortments have been Assembled especially for Dealers who do Not Wish to Carry a Large Stock. They Contain Good Sellers and are Put up in Green Plush and Silk Lined Boxes. All Knives are of Highest Quality American Make, Wardlows Grade English Steel Blades.



An Excellent Assortment of 10/60 Gold Handle, Beautifully Embossed with Mason, Odd Fellow, Elk, Knights of Columbus, Modern Woodmen of the World and Knights of Pythias Lodge Emblems, Blades of Good Grade English Crucible Steel

Per Assortment

No. B077G—Size of Box 6½x4 inches; Weight 11 ozs..... **$18.00**
Six in a Box.



An Excellent Assortment of 10/60 Gold Handle Knives, Highly polished; Beautifully Engraved with Floral Designs; Blades of Good Grade English Crucible Steel.

Per Assortment

No. B001G—Size of Box 6½x4 inches; Weight 11 ozs..... **$13.00**
Six in a Box.

An Excellent Assortment of 10/60 Gold Handle Knives; Highly polished; Beautifully Engraved with Floral Designs; Blades of Good Grade English Crucible Steel

Per Assortment

No. B15G—Size of Box 6½x4 inches; Weight 11 ozs..... **$13.00**
Six in a Box.

POCKET KNIFE ASSORTMENTS

★BRIDGE

Bridge

These Assortments have been Assembled especially for Dealers who do not wish to carry a Large Stock. They contain very good Sellers and are put up in Drab Canvas Rolls, Green Plush Lined, and in such a manner that each Knife is Clearly Displayed and Easily Accessible. All Knives Displayed are of a High Quality American Make with Wardlows English Steel Blades.

Per Assortment

No. B66 12—Contains Twelve Pen Knives; Two Blades, Six with Large and Small Pen Blades and Six with Large Pen and File Blades; Assorted **Pyralin Handles** as follows; Turquoise Blue, Gray Onyx, Golden Pearl, Ivory, Drab Gray, Cocobolo, Red Onyx, Green Onyx, Tortoise Shell, Gray Agate, Brown Agate and Red Agate; Length 2⅛ inches; Guaranteed Silver Bosters; Half Crocus Polished Blades, Brass Lining; Size of Roll 11½x4 inches, Weight per Assortment 8 ozs. **$10.00**

Per Assortment

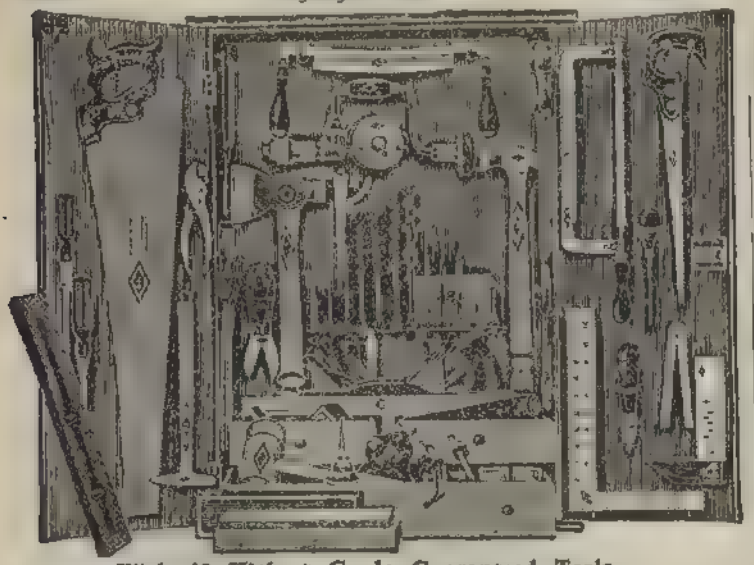
No. B70/12—Contains Twelve Pen Knives; Two Blades; One Large Wharncliffe and One File Blade; **Assorted Pyralin Handles;** Golden Pearl, Agate Gray, Gray Pearl, Carmine Agate, Turquoise Blue Agate a Tortoise Shell; Length 3¼ inches; Ends Untipped; Half Crocus Polished Blades, Brass Lining; Size of Roll 17¼x5 inches; Weight per Assortment 16 ozs. **$12 00**

Per Assortment

No. B73/12—Contains Twelve Pen Knives; Two Blades; Eight with Large and Small Pen Blades; Two with Large Wharncliffe and Small Pen Blades; and Two with Large Pen and File Blades, **Beautiful Genuine Abalone Pearl Handles;** Length 3 inches; Half Crocus Polished Blades; German Silver Lining; Size of Rolls 17¼x5 inches; Weight per Assortment 16 ozs. **$30.00**

TOOL CABINETS

★DIAMOND EDGE



With 49 Highest Grade Guaranteed Tools

Specially Selected Oak, Wall Cabinet, Varnished Golden Oak Finish; Two Paneled Doors, with Brass Cylinder Lock and Two Steel Keys; Brass Plated Ball Top Steel Hinges; Inside Three Drawers; Two Brass Hangers on Back; Workmanship and Finish is First Class.

Dimensions of Cabinet

Outside—31 inches High; 22½ inches Wide; 7¾ inches Deep.
Inside —29½ inches High; 21½ inches Wide; 7¼ inches Deep.
Drawer — 2¼ Inches Deep.

Each

No. DE500—Complete, with 49 Tools and Other Accessory Articles.....$55 00

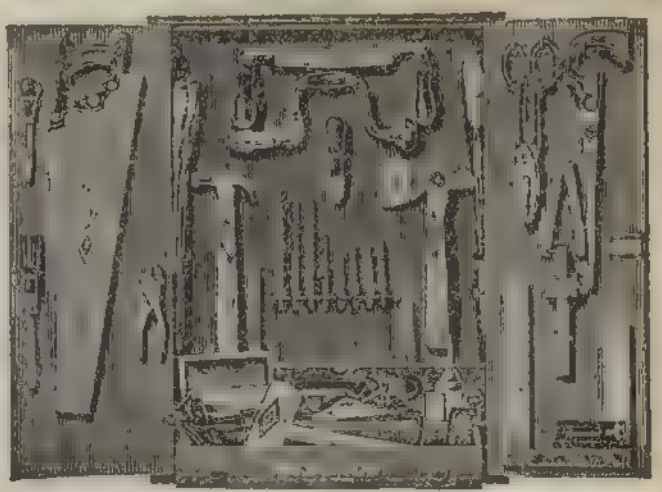
Contents of Cabinet

1 DIAMOND EDGE Hand Saw, No. DE150, 26 inch.
1 DIAMOND EDGE Compass Saw, No. DE110, 12 inch.
1 DIAMOND EDGE Hack Saw, No. DE125.
1 DIAMOND EDGE Coping Saw, No. DE100.
1 DIAMOND EDGE Nail Hammer, No. DE12.
1 DIAMOND EDGE Riveting Hammer, No. DR0.
1 DIAMOND EDGE Shingling Hatchet, No. DH02.
1 DIAMOND EDGE Drawing Knife, No. DE8, 8 inch.
1 DIAMOND EDGE Auger Bit, No. DE100, ¼ inch.
1 DIAMOND EDGE Auger Bit, No. DE100, ½ inch.
1 DIAMOND EDGE Auger Bit, No. DE100, ¾ inch.
1 DIAMOND EDGE Auger Bit, No. DE100, 1 inch.
1 DIAMOND EDGE Gimlet Bit, German Pattern, No. DG, 4-32 inch.
1 DIAMOND EDGE Gimlet Bit, German Pattern, No. DG, 8-32 inch.
1 DIAMOND EDGE No. DE108, 4-32 inch Drill Bit.
1 DIAMOND EDGE No. DE108, 8-32 inch Drill Bit.
1 DIAMOND EDGE Countersink Bit, No. DE14.
1 DIAMOND EDGE Reamer Bit, No. DE15.
1 DIAMOND EDGE Screw Driver Bit, No. DE25.
1 DIAMOND EDGE Socket Firmer Beveled Chisel, No. DEB, ½ inch.
1 DIAMOND EDGE Socket Firmer Beveled Chisel, No. DEB, ¾ inch.
1 DIAMOND EDGE Socket Firmer Beveled Chisel, No. DEB, 1 inch.
1 DIAMOND EDGE Mill File, 8 inch, with Handle.
1 DIAMOND EDGE Slim Taper File, 5½ inch, with Handle.
1 DIAMOND EDGE Half Round Cabinet File, 10 inch, with Handle.
1 DIAMOND EDGE Oil Stone, Mounted, No. DEM6, 6 inch.
1 DIAMOND EDGE Awl and Tool Set, No. DE50.
1 DIAMOND EDGE Screw Driver, No. DER, 6 inch.
1 DIAMOND EDGE Screw Driver, No. DER, 5 inch.
1 DIAMOND EDGE Nail Set, No. DE102.
1 DIAMOND EDGE Combination Plier, Nickel Plated, No. DEN6.
1 DIAMOND EDGE Cabinet Scraper, No. DL, 3x5 inch.
1 DIAMOND EDGE Wrench, No. DE150.
1 DIAMOND EDGE Steel Square, No. DEB12.
1 DIAMOND EDGE Ratchet Brace, No. DE80, 8 inch.
1 DIAMOND EDGE Divider, No. DE8, 8 inch.
1 DIAMOND EDGE Scratch Awl, No. DE4.
1 Blue Diamond Tape Line, No. BD50.
1 **Shapleigh** Success Carpenter's Pencil, No. 57.
1 Block Plane, No. DE9½.
1 Boxwood Rule, No. 63.
1 Boxwood Level, No. DL0
1 Hickory Mallet, No. ND50.
1 Zinc Oiler, No. 0.
1 Vise, No. B2.
1 Pair Tinner's Snips DE9, 3 inch
6 Sheets Sand Paper, Assorted.
1 Jack Plane, No. DE26.
1 One Ounce Can LePage's Glue.
1 Package Wire Brads, ¾ inch
1 Package Wire Brads, 1½ inch.
1 Quick Acting Clamp, No. 0.
1 Package Wire Brads, ½ inch.
1 Package Wire Brads, 1 inch.
1 No. DE4, 6 inch Try Square.
1 Marking Gauge, No. 62.

Weight of Cabinet, with Tools 72 Lbs.; Crated, 90 lbs.

TOOL CABINETS

★DIAMOND EDGE



With 36 Highest Grade Guaranteed Tools

Specially Selected Oak, Varnished Golden Oak Finish, Two Paneled Doors, with Brass Cylinder Lock and Two Steel Keys; Brass Plated Ball Top Steel Hinges, Inside Drawer; Two Brass Hangers on Back; Workmanship and Finish is First Class.

Dimensions of Cabinet

Outside—31 inches High; 22½ inches Wide; 7¾ inches Deep.
Inside—29½ inches High; 21 inches Wide; 7¼ inches Deep
Drawer—3 inches Deep.

Each

No. DE400—Complete, with 36 Tools, and Other Accessory Articles.....$43.50

Contents of Cabinet

1 DIAMOND EDGE Mounted Oil Stone, No. DEM6.
1 DIAMOND EDGE Hercules Wrench, No. DE150.
1 DIAMOND EDGE Hand Saw, No. DE150, 22 inch.
1 DIAMOND EDGE Compass Saw, No. DE110, 12 inch.
1 DIAMOND EDGE Nail Hammer, No. DE12.
1 DIAMOND EDGE Bronze Shingling Hatchet, No. DS1.
1 DIAMOND EDGE Drawing Knife, No. DE8, 8 inch.
1 DIAMOND EDGE Auger Bit, No. DE100, ¼ inch.
1 DIAMOND EDGE Auger Bit, No. DE100, ½ inch.
1 DIAMOND EDGE Auger Bit, No. DE100, ¾ inch.
1 DIAMOND EDGE Gimlet Bit, German Pattern, No. DG, 8-32 inch.
1 DIAMOND EDGE No. DE108, 4-32 inch Drill Bit.
1 DIAMOND EDGE No. DE108, 8-32 inch Drill Bit.
1 DIAMOND EDGE Screw Driver Bit, No. DE25.
1 DIAMOND EDGE Socket Firmer Beveled Chisel, No. DEB, ½ inch.
1 DIAMOND EDGE Socket Firmer Beveled Chisel, No. DEB, 1 inch.
1 DIAMOND EDGE Mill File, 8 inch, with Handle.
1 DIAMOND EDGE Slim Taper File, 5½ inch, with Handle
1 DIAMOND EDGE Awl and Tool Set, No. DE50.
1 DIAMOND EDGE Screw Driver, No. DER5, 5 inch
1 DIAMOND EDGE Combination Plier, Nickel Plated, No. DEN6.
1 DIAMOND EDGE Steel Square, No. DEB12.
1 DIAMOND EDGE Divider, No. DE8, 8 inch.
1 DIAMOND EDGE Scratch Awl, No. DE4.
1 DIAMOND EDGE Nail Set, No. DE102.
1 DIAMOND EDGE Ratchet Brace, No. DE8.
1 DIAMOND EDGE Block Plane, No. DE9½
1 **Shapleigh** Success Carpenters Pencil No. 57.
1 Boxwood Rule No. 63.
1 Marking Gauge, No. 62.
1 Boxwood Level, No. DL0
1 Hickory Mallet, No. ND50.
6 Sheets DIAMOND EDGE Sand paper, Assorted.
1 One Ounce Can LePage's Glue.
1 Package Wire Brads, ½ inch.
1 Package Wire Brads, ¾ inch.
1 Package Wire Brads, 1 inch.
1 Package Wire Brads, 1½ inch.
1 No. DE4, 6 inch Try Square.
1 Zinc Oiler, No. 0.
1 Vise, No. B2.
1 Pair Quick Frame Clamps, No. 6.
1 Pair DIAMOND EDGE Tinners Snips, DE9, 3 inch.

Weight of Cabinet, with Tools, 55 lbs.; Crated, 75 lbs.

TOOL CABINETS

★ *Diamond Edge*

With 28 Highest Grade Guaranteed Tools

***Diamond Edge* Wall Tool Cabinet is Made of Specially Selected Oak; Golden Oak Finish.** Varnished; Paneled Box Door, Brass Plated Hinges and Hasp; Antique Copper Padlock, with Two Brass Keys; Inside Drawer; Two Brass Hangers on Back; Workmanship and Finish is First Class.

Dimensions of Cabinet

Outside—26 inches High; 17¼ inches Wide; 9½ inches Deep.
Inside—24½ inches High, 16 inches Wide; 7¾ inches Deep.
Drawer 3½ inches deep.

Each

No. DE300—Complete, with 28 Tools and Other Accessory Articles **$31 00**

Weight of Cabinet With Tools, 45½ lbs.; Crated 55 lbs.

Contents of Cabinet

1 *Diamond Edge* Hand Saw, No. DE150, 20 inch.
1 *Diamond Edge* Keyhole Saw, No. DE20.
1 *Diamond Edge* Nail Hammer, No. DE12.
1 *Diamond Edge* Bronze Shingling Hatchet, No. DS1.
1 *Diamond Edge* Auger Bit, No. DE300, ⅜ inch.
1 *Diamond Edge* Auger Bit, No. DE100, ½ inch.
1 *Diamond Edge* Auger Bit, No. DE75, ¾ inch.
1 *Diamond Edge* Butt Chisel, No. DEBC, ½ inch.
1 *Diamond Edge* Butt Chisel, No. DEBP, 1 inch.
1 *Diamond Edge* German Pattern Gimlet Bit, No. DG 4-32 inch.
1 *Diamond Edge* German Pattern Gimlet Bit, No. DG 5-32.
1 *Diamond Edge* Oil Stone, No. DE6.
1 *Diamond Edge* Mill File, 8 inch, with Handle.
1 *Diamond Edge* Extra Slim Taper File, 5½ inch, with Handle.
1 *Diamond Edge* Nail Set, No. DE102.
1 *Diamond Edge* Combination Plier, No. DE106.
1 *Diamond Edge* Awl and Tool Set, No. DE50.
1 *Diamond Edge* Cabinet Scraper, No. DE, 3x5 inch.
1 Try Square, No. DE6, 6 inch.
1 *Diamond Edge* Screw Driver, No. DER, 6 inch.
1 *Diamond Edge* Divider, No. DE6.
1 *Diamond Edge* Scratch Awl, No. DE4
1 *Diamond Edge* Block Plane, No. DE110.
1 *Diamond Edge* Brace, No. DE8.
1 **Shapleigh** Success Carpenters Pencil, No. 57.
1 Mahogany Level, No. DE200.
1 Marking Gauge, No. 32
1 Ounce Bottle LePage's Glue.
4 Sheets *Diamond Edge* Sand Paper.
1 Rule, No. 63.
1 Spool Copper Wire, No. 3
1 Package Assorted Nails and Brads.
1 Package Assorted Screws.
1 Package Tacks, ¾ lb.
1 Zinc Oiler, No. 0.

TOOL CABINETS

★ *Diamond Edge*

With 21 Highest Grade Guaranteed Tools

***Diamond Edge* Wall Tool Cabinet is Made of Specially Selected Oak; Golden Oak Finish** Varnished; Paneled Door, Brass Plated Steel Hinges and Hasp; **Antique Copper** Padlock with Two Brass Keys, Two Brass Hangers on Back; Workmanship and Finish is First Class.

Dimensions of Cabinet

Outside—24 inches High, 17 inches Wide; 6¾ inches Deep.
Inside—22½ inches High, 15½ inches Wide, 4⅝ inches Deep.

Each

No. DL200—Complete, with 21 Tools and Other Accessory Articles **$24.50**

Weight of Cabinet with Tools 34 lbs.; Crated 40 lbs.

Contents of Cabinet

1 *Diamond Edge* Panel Saw, No. DE150, 18 inch
1 *Diamond Edge* Nail Hammer, No. DE12.
1 *Diamond Edge* Bronze Shingling Hatchet, No. DS1.
1 *Diamond Edge* Auger Bit, No. DE75, ⅜ inch.
1 *Diamond Edge* Auger Bit, No. DE75, ½ inch.
1 *Diamond Edge* German Pattern Gimlet Bit, No. DG 4-32 inch.
1 *Diamond Edge* Butt Chisel, No. DEBP, 1 inch
1 *Diamond Edge* Oil Stone, No. DE6.
1 *Diamond Edge* Screw Driver No. DER, 6 inch
1 *Diamond Edge* Mill File, 8 inch, with Handle.
1 *Diamond Edge* Extra Slim Taper File, 5½ inch, with Handle.
1 *Diamond Edge* Awl and Tool Set, No. DE50.
1 *Diamond Edge* Nail Set, No. DE102.
1 *Diamond Edge* Plier, No. DE106.
1 *Diamond Edge* Cabinet Scraper, No. DE, 3x5.
1 Norleigh Diamond Brace, No. NDR8.
1 *Diamond Edge* Block Plane, No. DE110.
1 Try Square, No. DE6, 6 inch
1 **Shapleigh** Success Carpenters Pencil, No. 57
1 Stanley Rule, No. 63.
1 Marking Gauge, No. 62.
1 Ounce Bottle LePage's Glue.
1 Spool Copper Wire, No. 20.
2 Sheets *Diamond Edge* Sand Paper, Assorted.
1 Package Assorted Screws.
1 Package Assorted Nails.
1 Package Assorted Brads.
1 Zinc Oiler, No. 0.

FIELDERS GLOVES

★DIAMOND BRAND

STANDARD DUCKFOOT MODEL

The Face of these Gloves is made Solid, of One Piece of Leather which Forms the Patent Web between the Fingers. This Form of Construction greatly assists the Player in Scooping up "Grounders," Prevents the Fingers from Splitting in the Crotches and adds longer life than any other form of Modern Design in Fielders Gloves.

Duk-Tut

Cut Shows Finger Division on Back

Button used on Gloves.

Left Hand; Best Quality Tan Russia Calf Throughout; Lined with Brown Mocha Sheepskin; All Seams Welted with Olive Green Horsehide; Well Padded with the Best Asbestos Felt; Full Leather Bound with Green Sheepskin; Strap and Button at Wrist.

Per Dozen

No. DF400T—Weight per Dozen 9¼ lbs. **$84 00**

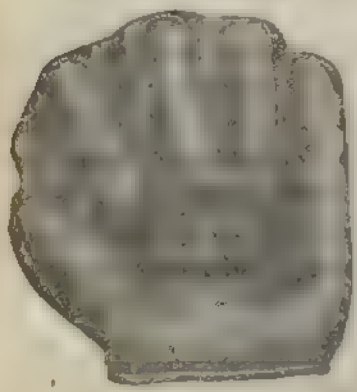
One in a Box

Left Hand; Very Best Carefully Selected Horsehide; Black Color Throughout; Lined with the Best Black Kid; Well Padded with the Best Asbestos Felt; All Seams Welted with Olive Green Napa Kid. Full Leather Bound with Black Horsehide; Strap and Button at Wrist.

Per Dozen

No. DF400—Weight per Dozen 9¼ lbs. **$84 00**

One in a Box



Left Hand; Large Size; Finest Quality; Tanned Russet Calf; lined with Best Brown Sheepskin; all Seams Welted with Heavy Maroon Sheepskin; Inserted Web Thumb; Heavily Padded Little Finger; Improved Asbestos Felt Padded Palm and Heel; Full Leather Bound with Maroon Kid; Strap and Button at Wrist.

Per Dozen

No. DF350—Weight per Dozen 9¼ lbs. **$78 00**

One in a Box

FIELDERS GLOVES

★DIAMOND BRAND

STANDARD DUCKFOOT MODEL

The Face of these Gloves is made Solid, of One Piece of Leather which Forms the Patent Web between the Fingers. This Form of Construction greatly assists the Player in Scooping up "Grounders." Prevents the Fingers from Splitting in the Crotches and adds longer life than any other form of Modern Design in Fielders Gloves.

Duk-Tut

Button used on Gloves.

Left Hand; Large Size; Finest Quality Black Caliskin; Lined with Best Black Sheepskin; All Seams Welted with Heavy Tan Color Sheepskin; Inserted Web Thumb; Heavily Padded Little Finger; Improved Asbestos Felt Padded Palm and Heel; Full Leather Bound with Tan Color Kid; Strap and Button at Wrist.

Per Dozen

No. DF300—Weight per Dozen 9¼ lbs. **$66 00**

One in a Box

Left Hand; Large Size; Finest Quality Brown Mocha Tanned Goatskin; Lined with Best Brown Sheepskin; All Seams Welted with Heavy Napa Green Sheepskin; Inserted Web Thumb; Heavily Padded Little Finger; Improved Asbestos Felt Padded Palm and Heel; Full Leather Bound with Napa Green Kid; Strap and Button at Wrist

Per Dozen

No. DF250—Weight per Dozen 9 lbs. **$55.00**

One in a Box

Left Hand; Large Size; Finest Quality; Dark Napa Green Sheepskin; Lined with Best Light Olive Kid; All Seams Lapped; Inserted Web Thumb; Heavily Padded Little Finger; Improved Asbestos Felt Padded Palm and Heel; Full Leather Bound with Maroon Kid; Strap and Button at Wrist.

Per Dozen

No. DF150—Weight per Dozen 9 lbs. **$33 00**

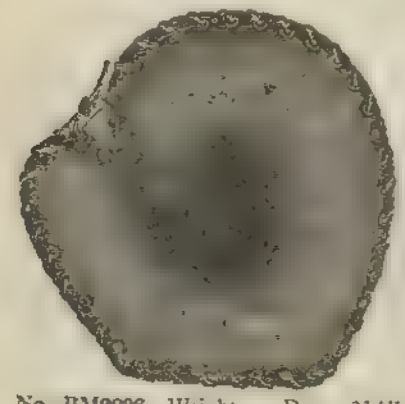
One in a Box

Any of the Above Mittens Can Also Be Furnished in Right Hand to Special Order, Direct from Factory, Chicago, Ill., at Same Price

BASEMENS MITTENS
★DIAMOND BRAND

Left Hand; Extra Fine Quality Genuine Calf Skin; Dark Tan Color; Very Strong, Pliable and Durable; Best Felt Padding with Hump Forming a Deep Pocket **which requires no Preliminary "Breaking-In" Work;** Made in Two Separate Pieces and Laced All Around with Rawhide Lacing; Metallic Eyelets; All Seams Lapped and Double Stitched; All Edges Turned and Bound with Genuine Black Color Leather; Strap and Buckle at Wrist; Wrist Strap has Leather Felt Lined Protection Piece For Wrist.

Per Dozen
No. BM250—Weight per Dozen 16½ lbs..... **$56.00**
One in a Box

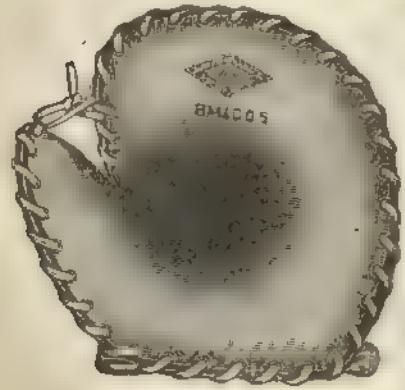


Left Hand; Best Quality Chocolate Brown Mitten Leather; Best Felt Padding; Made in Two Separate Pieces and Laced All Around with Braided Flat Cord; Edges Bound in Black Imitation Leather; Metallic Eyelets; Pebbled Russet Strap and Brass Buckle at Wrist.

Per Dozen
No. BM2006—Weight per Dozen 6¼ lbs. **$54.00**
One in a Box

Left Hand; Fine Quality Pearl Gray Sheepskin Face and Fingers; Black Leather Back; Made in Two Pieces and Laced All Around with Braided Flat Cord; Metallic Eyelets; Edges Bound with Red Imitation Leather; Tan Pebbled Strap and Buckle at Wrist.

Per Dozen
No. BM1759—Weight per Dozen 6¼ lbs.... . . ..**$46 00**
One in a Box



Left Hand; Best Grade Russet Leather Face and Fingers; Black Imitation Leather Back; Very Nicely Padded; Made in Two Separate Pieces and Laced All Around with Flat Braided Cord; Edges Bound with Black Cloth; Pebbled Tan Strap and Buckle at Wrist.

Per Dozen
No. BM1005—Weight per Dozen 8¼ lbs..... .....**$20.40**
One in a Box

BASEMENS MITTENS
★DIAMOND BRAND

Left Hand; Good Grade Black Sheepskin Face and Fingers; Imitation Russet Leather Back; Well Padded; Laced All Around, except at Wrist with Round Braided Cord; Metallic Eyelets; Edges Bound with Red Cloth; Black Strap and Buckle at Wrist.

Per Dozen
No. BM751—Weight per Dozen 7½ lbs..... **$21.60**
One in a Box

FIELDERS MITTENS

Left Hand; Highest Quality Tanned Horsehide Face and Fingers; Russet Color Sheepskin Lined, Best Grade Selected Stock throughout for Flexibility and Durability; Best Felt Padding; made Solid, not Laced; Thumb Attached to Body with Tan Sheepskin Web; Lapped Seams; Tan Sheepskin Bound Edges; Strap and Button at Wrist.

Per Dozen
No. FGM165—Weight per Dozen 8 lbs..... **$31 50**
One in a Box

Left Hand; Good Quality Black Kid Face and Fingers; Brown Sheepskin Lined Palm; Fingers Felt Lined; Best Felt Padding; Made Solid, not Laced; Thumb Attached to Body with Black Sheepskin Web; Lapped Seams; Tan Sheepskin Bound Edges; Strap and Button at Wrist.

Per Dozen
No. FGM135—Weight per Dozen 7 lbs..... **$35.50**
One in a Box

Left Hand; Good Quality Drab Flesher Sheepskin Face; Brown Mocha Tanned Sheepskin Back and Lining; Best Felt Padding; Not Laced; Drab Horsehide Lacing Pieces between Thumb and Body; Metallic Eyelets; Braided Cord Lacing; Turned Seams; Russet Leather Bound; Strap and Buckle at Wrist.

Per Dozen
No. FM125—Weight per Dozen 8 lbs.... ..... **$27 60**
One in a Box

Any of the Above Mittens Can be Furnished in Right Hand to Special Order Direct from Factory, Chicago, Ill., at Same Price.

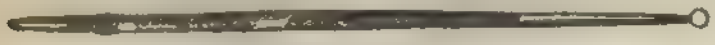
FISHING FLOATS
*DIAMOND BRAND

THIN BARREL SHAPE

Genuine English, Finest Quality Cork, Bound; Painted in Two Colors, Assorted Red and Green and White and Green; **Genuine Porcupine Quill Center;** Quill and Brass Wire Line Guides; Varnished and Highly Polished.

Nos.	COP3	COP4	COP5	COP6
Length, Inches	3	4	5	6
Weight per Dozen, ozs.	2½	3	3½	4
Per Dozen	$5.50	8.00	12.00	14.00

Twelfth Gross in a Paper; One Gross in a Box



PORCUPINE QUILL

Genuine English, Bound; Spring Wire Line Guides; Highly Finished and Varnished.

Nos.	PQ4	PQ6	PQ8	PQ10
Length, Inches	4	6	8	10
Weight per Gross, ozs.	4	6	8	10
Per Gross	$9 00	12 00	15 00	20 00

Twelfth Gross in a Paper; One Gross in a Box

EGG SHAPE HOLLOW

Cut shows sectional view of Diamond Brand Hollow Float.

Fine Quality Compressed Cork, Hollow; Unbound; Painted in Best Water-Resisting Colors, Fancy Assorted Stripes, Wood Stick extends entirely through the Float, Black Enameled; Patented Adjustable Spring and Cap Brass Line Holders; All Nicely Polished and Covered with a Coat of Best Waterproof Varnish; **Extreme Buoyancy**

Nos.	HCE1½	HCE1¾	HCE2
Length, inches	1½	1¾	2
Weight per Dozen, ozs.	2½	4	5½
Per Dozen	$2 70	3 50	3 70
Nos.	HCE2¼	HCE2½	HCE3
Length, inches	2¼	2½	3
Weight per Dozen, ozs.	7½	10	12
Per Dozen	$4.50	5.00	8.00

One Dozen in a Box

BARREL SHAPE—HOLLOW

Nos.	HCB2½	HCB3	HCB3½	HCB4
Length, inches	2¾	3	3¾	4
Weight per Doz., ozs.	3½	4½	5½	6½
Per Dozen	$4 00	5.00	5.50	7.00

One Dozen in a Box

ROUND SHAPE—SOLID

Best Quality Compressed Cork, Solid; Unbound; Absolutely Round and True; Painted in best Water-Resisting Colors; Fancy Assorted Stripes, Hardwood Stick Extends entirely through the Float; Brass Spring Line Holder at Top; Brass Spring Wire Line Guide at Bottom; Highly Varnished and Polished throughout.

Nos.	NCB1	NCB1¼
Diameter, inches	1	1¼
Weight per Dozen, ozs.	1½	3
Per Dozen	$2 00	2 70

Nos.	NCB1½	NCB1¾	NCB2
Diameter, inches	1½	1¾	2
Weight per Dozen, ozs.	2½	4	5½
Per Dozen	$3 60	4.50	5.50

One Dozen in a Box

CORK BALL

Best Grade Cork; Perfectly Smooth Finish and Varnished; Absolutely Round and True; Holes Drilled for Peg and Line.

Nos.	CB1	CB1¼	CB1⅜	CB1½
Diameter, inches	1⅛	1¼	1⅜	1½
Weight per Gross, lbs.	1½	1⅝	2	3
Per Gross	$15.00	16.80	19.20	24.00

Quarter Gross in a Box

FISHING FLOATS
*MIZZOO

Mizzoo

Good Quality Cork, Unbound, Hard White Maple Tipped at Each End to Protect Cork; Smooth Natural Finish, White Shellaced and Varnished; Wood Stick Top with Brass Spring Line Holder; Wood Stick Bottom with Brass Spring Wire Line Guide, Highly Polished.

Nos.	UPE1½	UPE1¾
Length, Inches	1½	1¾
Weight per Dozen, ozs.	3	5
Per Dozen	$1 32	1 70

Nos.	UPE2	UPE2¼	UPE2½
Length, Inches	2	2¼	2½
Wt. per Doz., ozs.	7	9	11
Per Dozen	$2 00	2.60	2 80

One Dozen in a Box

BARREL SHAPE

Good Quality Cork, Unbound, Painted in Two Colors, Assorted Red and Green and White and Green; Wood Stick Top with Brass Spring Line Holder; Wood Stick Bottom with Brass Spring Wire Line Guide; Varnished and Highly Polished.

Nos.	PB1½	PB1¾	PB2	PB2¼
Length, Inches	1½	1¾	2	2¼
Wt. per Doz., ozs.	3	3	4	5
Per Dozen	$1 10	1 32	1 70	1 80

Nos.	PB2½	PB3	PB3½	PB4
Length, Inches	2½	3	3½	4
Weight per Dozen, ozs.	6	7	8	9
Per Dozen	$2 20	2 00	3 30	4 50

BARREL SHAPE

Good Quality Cork, Unbound; Hard White Maple Tipped at Each End to Protect Cork; Smooth Natural Finish, White Shellaced and Varnished; Wood Stick Top with Brass Spring Line Holder; Wood Stick Bottom with Brass Spring; Wire Line Guide; Highly Polished.

Nos.	UPB1½	UPB2	UPB2½
Length, Inches	1½	2	2½
Weight per Dozen, ozs.	3	4	5
Per Dozen	$1 10	1 32	1 80

Nos.	UPB3	UPB3½	UPB4
Length, Inches	3	3½	4
Weight per Dozen, lbs.	7	9	11
Per Dozen	$2.50	2.80	3.60

Half Dozen in a Box

EGG SHAPE

Good Quality Cork Unbound; Painted in Two Colors, Assorted Red and Green and White and Green; Wood Stick Top with Brass Spring Line Holder; Wood Stick Bottom with Brass Spring Wire Line Guide; Varnished and Highly Polished.

Nos.	PE1¼	PE1½	PE1¾
Length, Inches	1¼	1½	1¾
Weight per Dozen, ozs.	4	5	6
Per Dozen	$1 10	1 32	1 70

Nos.	PE2	PE2¼	PE2½	PE3
Length, Inches	2	2¼	2½	3
Weight per Dozen, ozs.	7	9	10	15
Per Dozen	$2.20	2 60	2.80	5 00

Half Dozen in a Box

FISHING FLOATS
★DIAMOND BRAND

Clear Light Wood, Unbound; Painted in Two Colors, Assorted Red and Green and White and Green; Wood Stick Top with Quill Line Holder, Wood Stick Bottom with Brass Screw Eye Line Guide Varnished and Polished

Nos.	W1½	W1¾	W2	W2½	W2⅔
Length, Inches.	1½	1¾	2	2¼	2½
Wt per Doz., oz.	3	5	7	9	12
Per Dozen	$0 72	.90	1 00	1 16	1.44

One Dozen in a Box

Genuine English, Finest Quality Cork, Bound; Painted in Two Colors, Assorted Red and Green and White and Green; Cotton Filled; Quill Top; Wood Stick Bottom with Brass Screw Eye Line Guide; Varnished and Highly Polished

Nos.	DEB1½	DEB1¾	DEB2
Length, Inches	1½	1¾	2
Weight per Dozen, Ozs.	3	5	6
Per Dozen	$2.20	2.80	2.70

Nos.	DEB2¼	DEB2⅓	DEB2½	DEB3
Length, Inches	2¼	2⅓	2¾	3
Wt. per Doz., oz.	7	10	11	12
Per Dozen	$3.60	4.50	5.30	6.00

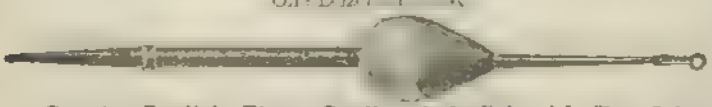
One Dozen in a Box

SNECK HEAD SHAPE

Genuine English, Finest Quality Cork; Bound; Painted in Two Colors, Assorted Red and Green, White and Green, Red and Black and White and Black; Cotton Filled; Quill Top; Wood Stick Bottom with Brass Screw Eye Line Guide, Varnished and Highly Polished.

Nos.	DSH2	DSH2½	DSH3
Length, Inches	2	2½	3
Weight per Dozen, Ozs.	3	4	4
Per Dozen	$1 80	2.00	2.80

One Dozen in a Box

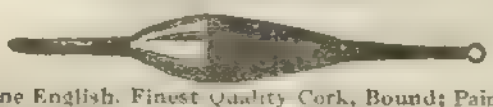


Genuine English, Finest Quality Cork, Painted in Two Colors, White and Green; Porcupine Quill; Steel Wire Line Guide; Varnished and Highly polished.

	Per Dozen
No. PC51—5 inches long with 1 inch Cork; Weight per Dozen 2 ozs.	$2 70
No. PC51¼—5 inches long with 1¼ inch Cork; Weight per Dozen 2½ ozs.	3 00
No. PC71¼—7 inches long with 1¼ inch Cork; Weight per Dozen 4 ozs.	3.30
No. PC71¾—7 inches long with 1¾ inch Cork; Weight per Dozen 5 ozs.	5.00

One Dozen in a Box

REGULAR BARREL SHAPE



Genuine English, Finest Quality Cork, Bound; Painted in Two Colors, Assorted Red and Green, White and Green, Red and Black and White and Black; Cotton Filled; Quill Top; Wood Stick Bottom with Brass Screw Eye Line Guide, Varnished and Highly Polished.

Nos.	DBB2	DBB2¼	DBB2½
Length, Inches	2	2¼	2½
Weight per Dozen, ozs.	3	3	4
Per Dozen	$2.60	2.80	3.00

Nos.	DBB2¾	DBB3	DBB3½	DBB4
Length, inches	2¾	3	3½	4
Weight per Dozen, ozs.	5	5	6	7
Per Dozen	$3.60	4.50	5.40	7.20

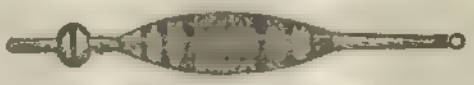
One Dozen in a Box

FISHING FLOATS
★DIAMOND BRAND

Genuine English, Finest Quality Cork, Bound; Smooth Natural Finish; Unvarnished; Cotton Filled; Quill Top; Wood Stick Bottom with Heavy Brass Screw Eye Line Guide; Very Finely Finished.

Nos.	DUBB2	DUBB2½	DUBB3	DUBB3½
Length, Inches	2	2½	3	3½
Weight, Ozs.	3	4	5	6
Per Dozen	$2.00	2.60	3.50	4.50

One Dozen in a Box



Genuine English, Finest Quality Cork, Bound; Painted in Bright Colored **Fancy Stripes,** all Assorted Colors; Wood Stick Top with **Hardwood Fancy Striped Pilot Ball;** Wood Stick Bottom with Heavy Brass Screw Eye Line Guide, Very Elaborately Painted, Varnished and Polished.

Nos.	ZPB2	ZPB2½	ZPB3	ZPB3½	ZPB4
Length, in.	2	2½	3	3½	4
Wt., Doz., ozs.	4	5	6	9	11
Per Dozen.	$3.80	3.80	4.50	5.00	5.50

One Dozen in a Box

High Grade Cork: Perfectly Smooth Natural Finish; Bamboo Reed Stem extending entirely through the Float. Float has hole drilled through its entire length for adjusting Float to any position desired on the line, when used in connection with small Wooden Pegs, which hold the Float firmly in place.

Nos.	RS2½	RS2¾
Length, Inches	2½	2¾
Weight per Dozen, ozs.	3	3½
Per Dozen	$3.80	4.50

One Dozen in a Box

Ideal

Finest Quality Solid Cork; Varnished Hardwood Sticks with Knob Top and Ring bottom; Brass Ferrule on bottom; Brass adjusting Ring which holds Line securely in place.

Plain

Nos.	IB2	IB2½	IB3	IB3½	IB4
Length, Inches	2	2½	3	3½	
Wt. per doz., ozs.	2	2¼	2¼	2¾	3
Per Dozen	$1 70	1.70	2.70	2.70	4.50

Painted; Two Colors

Nos.	IPB2	IPB2½	IPB3	IPB3½	IPB4
Length, Inches	2	2½	3	3½	4
Wt. per Doz., ozs.	2¼	2½	2¾	3	3¼
Per Dozen	$1 70	1.70	2.70	2.70	4.50

One Dozen in a Box

Thin Barrel Shape

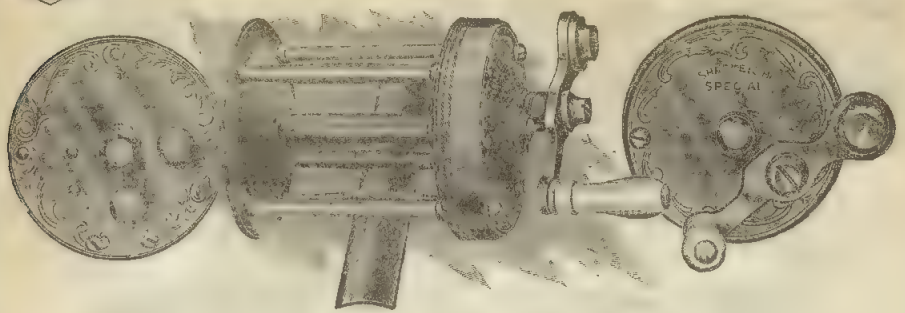
Genuine English, Finest Quality Cork, Bound; Painted in Two Colors, Assorted Red and Green and White and Green; Cotton Filled Quill Top; Wood Stick Bottom with Heavy Brass Screw Eye Line Guide; Varnished and Highly Polished.

Nos.	DTB4	DTB5	DTB6
Length, inches	4	5	6
Weight per Dozen, ozs.	4	5	6
Per Dozen	$4.50	6.30	8.40

One Dozen in a Box

FISHING REELS

*DIAMOND BRAND



*SHAPLEIGH SPECIAL CASTING QUADRUPLE MULTIPLYING

Heavy Spun Brass Frame; Heavily Gold Plated and Highly Polished and Engraved; Very Strong and Rigid; Steel Axles running in Hardened Brass Bearings, Genuine Jeweled Bearings, Phosphor Bronze Cut Spur Gear, Steel Cut Pinion running in a Housing of Hardened Brass; Brass balanced Handle with Ivory Thumb Piece; Click Sliding Steel Click, Brass Drag, Accurately Milled and made to Gauge; All Parts Screwed.

Agate Jeweled End Bearing Oil Cups — Per Dozen

No. SS80—Capacity 80 Yards; Diameter of Plates 2 inches; Length of Spool 1⅞ inches; Actual Weight each 8 ozs.; Shipping Wt. per Doz. 8¼ lbs. **$156.00**
Twelfth Dozen in a Box

*ULTRA CASTING

Highest Quality; **German Silver Frame;** German Silver Spool with Hardened and Polished Brass Shaft; Steel Axles running in Phosphor Bronze Bearings; Phosphor Bronze Cut Spur Gear; Steel Cut Spur Pinion running in a Housing of Phosphor Bronze; German Silver Balance Handle with Ivory Thumb Piece; Sliding Steel Click, Brass Drag; Accurately Milled and Handsomely Knurled; All Parts Accurately Machined and Made to Gauge; All Parts Screwed; Easily Taken Apart and Reassembled.

Capacity 60 Yards; Diameter of Plates 2 inches; Length of Spool 1⅞ inches; Actual Weight each 7 ozs.; Shipping Weight per Dozen 9 lbs. — Per Dozen

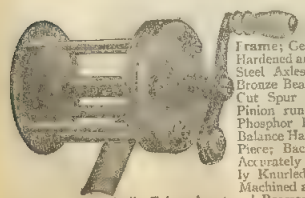
No. UCJ—With Agate Jeweled End Bearing Oil Caps.....$132.00
Twelfth Dozen in a Box

*HIAWATHA CASTING

Highest Quality; **German Silver Frame;** German Silver Spool with Hardened Brass Shaft; **Hard Black Rubber Slide Plates;** Reinforced with German Silver Flanges; Steel Axles Running in Hardened Brass Bearings, Phosphor Bronze Cut Spur Gear, Steel Cut Pinion running in a Housing of Hardened Brass; German Silver Balance Handle with Ivory Thumb Piece; Back Sliding Steel Click, Brass Drag; all Parts Screwed; Knurled Oil Caps and Handle Hub; All Parts Accurately Milled and Made to Gauge.

Plain German End Bearing Oil Caps — Per Dozen

No. H80—Capacity 80 Yards; Diameter of Plates 2¼ inches; Length of Spool 1⅞ inches; Actual Weight Each 6 ozs., Shipping Weight per Dozen 6 lbs. **$86 00**
Twelfth Dozen in a Box

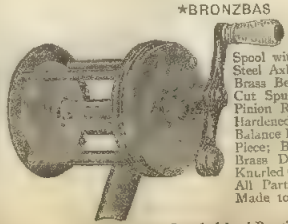


Highest Quality; **German Silver Frame;** German Silver Spool with Hardened and Polished Brass Shaft; Steel Axles running in Phosphor Bronze Bearings; Phosphor Bronze Cut Spur Gear; Steel Cut Spur Pinion running in a Housing of Phosphor Bronze; German Silver Balance Handle, with Ivory Thumb Piece; Back Sliding Steel Click; Accurately Milled and Handsomely Knurled; All Parts Accurately Machined and Made to Gauge; All Parts Screwed; Easily Taken Apart and Reassembled.

Capacity 60 yards; Diameter of Plates 2 inches; Length of Spool 1⅞ inches; Actual Weight Each 7 ozs.; Shipping Weight per Dozen 9 lbs.

No. UC—With Plain German Silver End Bearing Oil Caps $108 00
Twelfth Dozen in a Box

*BRONZBAS



Heavy Spun Brass Frame; German Silver Spool with Hardened Brass Shaft, Steel Axles Running in Hardened Brass Bearings; Phosphor Bronze Cut Spur Gear; Steel Cut Spur Pinion Running in a Housing of Hardened Brass; Bronzed Brass Balance Handle with Ivory Thumb Piece; Back Sliding Steel Click, Brass Drag; All Parts Screwed, Knurled Oil Cups and Handle Hub, All Parts Accurately Milled and Made to Gauge.

With Agate Jeweled End Bearing Oil Caps — Per Dozen

No. BB80—Capacity 80 Yards; Diameter of End Plates 2 inches; Length of Spool 1⅞ inches; Actual Weight Each 6 ozs., Shipping Weight per Dozen 6 lbs. **$66 00**
Twelfth Dozen in a Box

SKIS

★DIAMOND BRAND

Whenever the Snowfall is sufficient to make good, steady Sleighing, the use of Skis in work and play is becoming popular, and in those Regions where the Snow becomes deep as it does in the Mountains and Hilly Country and occasionally on the Prairies of Dakota and Minnesota, Skis are recognized as necessities.

More Durable than Snow Shoes and allows the Wearer to cover more Ground in less time and with less fatigue.

All Diamond Brand Skis are made of Best Selected Material, thoroughly Kiln Dried, and free from Knots and Blemishes; Covered with several coats of Best Waterproof Varnish. Each Ski provided with Suction Tread Rubber Foot Rests and Best Quality Black Harness Leather Toe Straps.

All Diamond Brand Skis are patterned after the Latest Approved Norwegian Models.

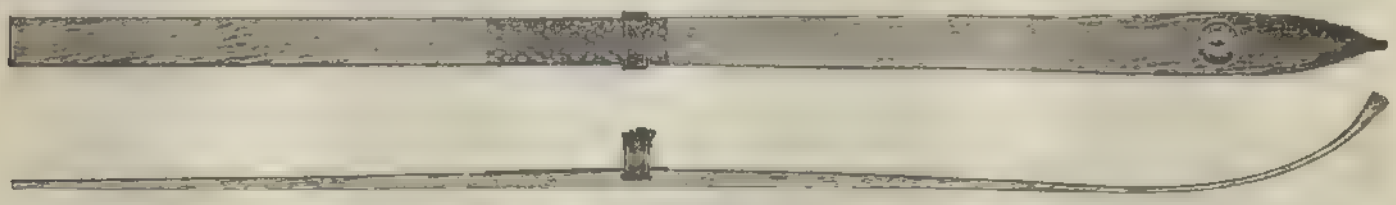
Cut Shows Suction Tread Rubber Foot Rests used on all Diamond Brand Skis

Modeled on Practical, Proven Lines, Always Uniform throughout and will never Lose their Shape

PINE

Best Quality Selected Stock Norway Pine; Natural Wood Finish with several Coats Best Waterproof Varnish, Fancy Black Stripes; Single Grooved Bottom.

Nos	P4	[illegible]	P6	P7	P7½
Length, feet	4	5	6	7	7½
Weight per Pair, lbs.	3½	4½	5½	7	9
Per Pair	$2 00	2 50	2 70	4.00	4 10



MAGNOLIA

Best Quality Selected Magnolia; Mahogany Finish with several Coats best Waterproof Varnish; Fancy Grooved White Stripes; Single Groove Bottom.

Nos	M4	M5	M6	M7	M7½
Length, feet	4	5	6	7	7½
Weight per Pair, lbs.	4½	5½	6	8	10
Per Pair	$3.00	3.60	5.00	6.00	6.70

ASH

Very Best Quality Selected Ash, the Best that can be Obtained on the Market; Finish'd in Black with Fancy Grooved White Stripes; Single Grooved Bottom.

Nos.	A7	A7½	[illegible]
Length, feet	7	7½	8
Weight per Pair, lbs.	11½	13	15
Per Pair	$7 50	8 50	9.50

THE CHAMPION HICKORY

Very Best Quality Straight Grained Second Growth Hickory; Finish'd in Black with Fancy Grooved White Stripes, Double Grooved Bottom Ski is intended more particularly for a Leaping Ski, the one used by the Experts in the Leaping Contests. It is made after the Latest Norwegian Design as is Used by all Professionals.

Nos.	H7	H7½	H8
Length, feet	7	7½	8
Weight per Pair, lbs.	12	14	16
Per Pair	$10.00	11.00	12.00

All Above, One Pair in a Bundle

SKATE SHARPENERS

PERFECT

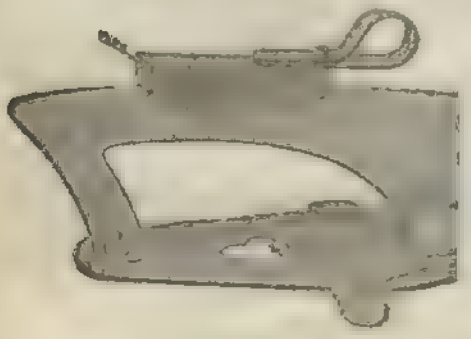
Per Dozen

No. 25—Bright Stamped Steel Holder 3x1¼x¾ inches, Containing a Wheel Made of Oxide of Aluminum Fused with Best Turkish Emery Compressed and Vitrified at Great Heat; the Wheel is Set in the Holder at an Oblique Angle to the Guide Slides, Thus giving a grinding Surface of a Much Larger Wheel and Gives a Hollow Ground Runner of the Most Approved Style; Weight per Dozen 1¾ lbs... **$3.00**
One Dozen on an Easel Display Card

FILE 'EM QUICK

Per Dozen

No. 15—Blued Steel Spring Clamp; Oil Tempered Steel File with Four Cutting Sides; Size of Clamp 2x1⅛x⅜ inches; Size of File 2x⅛x¼ inch; Weight per Dozen 1¾ lbs..... **$3.50**
One Dozen on a Display Card

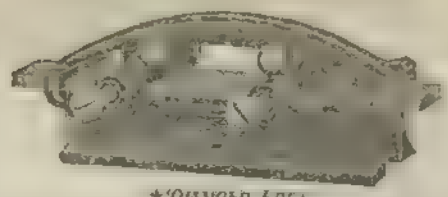


UNION

Per Dozen

No. 20—Bright Steel Spring Clamp, with Loop Handle; Oil Tempered Steel File with Four Cutting Sides; Size of Clamp 2⅜x¾x⅜ inch; Size of File 2¾x⅜x⅜ inch; Weight per Dozen 1½ lbs. **$4.00**
Twelfth Dozen [illegible]

SKATE SHARPENERS



*DIAMOND EDGE

Uses any Common File, Joints any Straight Edge perfectly True; Used with a Half Round File it is Unsurpassed as an Ice Skate Sharpener.

Per Dozen

No. DEJ55—With File; [illegible] Cast Iron Frame; [illegible] Weight per Dozen [illegible] **$9.00**
Twelfth Dozen in a Box

SKATE STRAPS

Best Selected Oak-tanned Leather, Russet Color; ⅝ inch Wide; Japanned Buckles.

Per Dozen

No. 1—Length 20 inches..... **$1.00**
No. 2—Lengths Assorted 28 to 31 inches. **1 80**
One Dozen in a Bundle; Average Weight per Dozen ⅝ lb.

WEB

Per Dozen Pair

No. 3—Made of the Best Woven Cotton; Yellow Color; Stamped Steel Buckle; Length 20 inches; Width ⅝ inches; Weight per Dozen ⅝ lbs. **$4.00**
One Dozen in a Box

SKATE KEYS

Per Dozen

No. ISK—Malleable Iron; Bright Finish, Not Polished; with Hook for Cleaning Out Heel Plates; Length 3 in.; Weight per Dozen ¾ lb. **$0 90**
One Dozen in a Box

ANKLE SUPPORTS

Adapted to Skaters with Weak Ankles; Supports the Ankles, and at the Same Time Permitting [illegible] bility of the Wearer's Foot.

This Brace Fits Very Comfortably to the Ankle, and Being Worn on the Outside of the Shoe, it is Easily Adjusted or Removed.

[illegible] Russet Oak-tanned [illegible] ut to Fit the Shape of [illegible]; Adjustable in Front and Side.

Per Dozen Pair

No. M1—Men's; Weight per Dozen 1¾ lbs. **$24 00**
No. B2—Boys; Weight per Doz [illegible] lbs.... **24.00**
No. W3—Womens; Weight per Dozen 1½ lbs... **24 00**

One Dozen in a Box

ICE CREEPERS

RIVAL

Per Dozen Pair

No. R—Malleable Iron with Steel Wire Spring; Bolt and Wing Nut for Fastening to Heel; Creeper Can be Turned up Under Instep when not in Use; Weight per Dozen Pair 3 lbs..... **$7.00**
One Dozen Pair (Assorted Sizes for Men's and Women's Shoes) in a Box

NEWARK

Per Dozen Pair

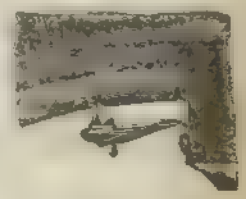
No N—Stamped Steel; Adjustable to any Size Heel; Four Sharp Steel Points; With ½ inch Woven Cotton Straps and Tinned Buckles; Weight per Dozen Pair 5 lbs.....**$12 00**
One Dozen Pair in a Box

STAR

Per Dozen Pair

No. S—Japanned Cast Iron; Four Prongs; with ½ inch Woven Cotton Straps and Tinned Buckles; Weight per Dozen Pair 2¾ lbs.. ..... **$4.00**
One Dozen Pair in a Box

Cut Shows Creeper in Position on Shoe to Prevent Slipping.



Cut Shows Creeper with Moveable [illegible] Turned under.

RELIANCE

Fits any Shoe

Per Dozen Pair

No. R2—Hardened Steel with Flat Steel Spring; Easily and Quickly Attached; Creeper can be turned up Under Instep when not in use; Weight per Dozen Pair 1½ lbs... **$4.50**
One Pair in a Carton;
Complete Directions with each Pair

TOILET PAPER

Chemically Pure, Made from Hygienic Tissue; Contains Nothing Injurious

Mizzoo TRADE MARK

★DIAMOND, Perforated

Per Case

No. D—4½x5 inches; Full Count 1000 Sheets to the Roll; Weight per Roll 9 ozs. **$20.00**

100 Rolls in a Case
Weight per Case 67 lbs.

BAGDAD
White Crepe
Perforated

Per Case

No. B—4½x5 in. Diam. of Roll 6 inches, Weight per Roll 8 ozs. **$15 00**

100 Rolls in a Case.

★MIZZOO Perforated

Per Case

No. M—4½x3¾ inches; Weight per Roll 5 ozs. . **$9.00**

100 Rolls in a Case; Weight per Case 35 lbs.

PLANO
Perforated

Per Case

No. P—4½x4 inches; Weight per Roll 7 ozs. **$13 20**

100 Rolls in a Case
Weight per Case 41 lbs.

RANGOON
White Crepe
Perforated

Per Case

No. R—4½x5 inches; Diam. of Roll 4¾ inches. Weight per Roll 5 ozs . . **$10 00**

100 Rolls in a Case.
Weight per Case 39 lbs.

Triumph

★TRIUMPH. Perforated

Per Case

No. T—4½x4½ in. Weight per Roll, 8 ozs. . . **$14.50**

100 Rolls in a Case.
Weight per Case 57 lbs.

NOTE—All of our Toilet Paper is now Packed in Fiber Shipping Cases which is much lighter than Wooden Cases and reduces Shipping Weight to a Minimum.

GARMENT HANGERS

SKIRT AND TROUSERS HANGERS

For Any Weight Goods; Avoids Ironing and Holds the Creases; Locked by a Strong Thumb Nut; Hook Folds Down

Per Dozen

No. NT—Nickel Plated and Polished Steel; with Spring Hinge Joint; Length 10¾ inches; Width of Steel 1 inch; Weight per Dozen 2¾ lbs. **$2 50**

One Dozen in a Box

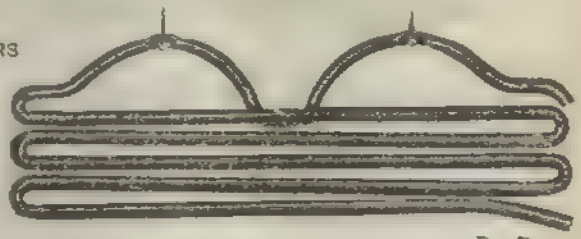
Per Dozen

No. JT—Black Enameled Steel; One Piece with Spring End, Length 10⅝ inches; Width of Steel ⅞ inch; Weight per Dozen 2¼ lbs. **$1.40**

One Dozen in a Box

SKIRT AND TROUSERS HANGERS

Can be Suspended from Hook or Nail or Screw to the Wall



Per Dozen

No. 4NT—Heavily Nickel Plated and Polished Copperized Steel Wire, Holds Four Garments; 0-32 inch Wire; Length of Hanger 9½ inches; Weight per Dozen 14½ lbs. **$5 50**

One Dozen in a Box, with Screws

FAMILY

Very Useful for Hanging Clothes in Closet, Clothes Press or Wardrobe.

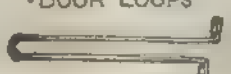
Retinned No. 9 Wire; 17 inches Long; Wires Twisted to Add Strength to the Hanger.

Per Gross

No. 300—With Offset Hook. **$8 50**
No. 310—Without Offset Hook **6.50**

One Gross in a Case; Weight per Case 37 lbs.

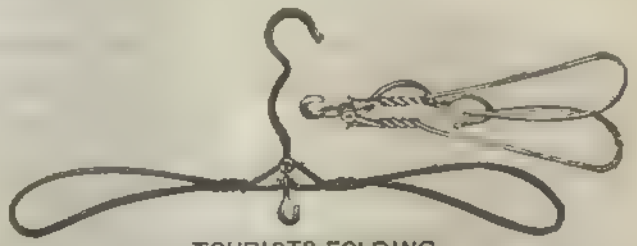
★DOOR LOOPS



Per Dozen

No. DL—Nickel Plated and Polished Steel Rod; Length of Hanger 8 inches; Size of Rod ¼ inch; Weight per Dozen 3½ Lbs. **$2.30**

One Dozen in a Box



TOURISTS FOLDING

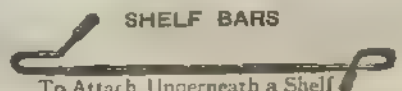
Admirably Adapted for Use of Tourists; Very Compact when Folded; Makes an Excellent Suit Hanger when used with Nos. NT and JT Trouser or Skirt Hanger suspended from Hook.

Per Dozen

No. 69—Nickel Plated and Polished Steel Wire; No. 9 Wire; with Bottom Hook; Wire Twisted to Add Strength; Weight per Dozen 4 lbs. **$1 50**

One Dozen in a Box

SHELF BARS



To Attach Underneath a Shelf

Per Dozen

No. SB—Nickel Plated and Polished Steel Rod; Length of Hanger 15 inches; Size of Rod ¼ inch; Weight per Dozen 3½ Lbs. **$2.30**

One Dozen in a Box

LEAD PENCILS

★SHAPLEIGH'S HIGH GRADE

Made in America

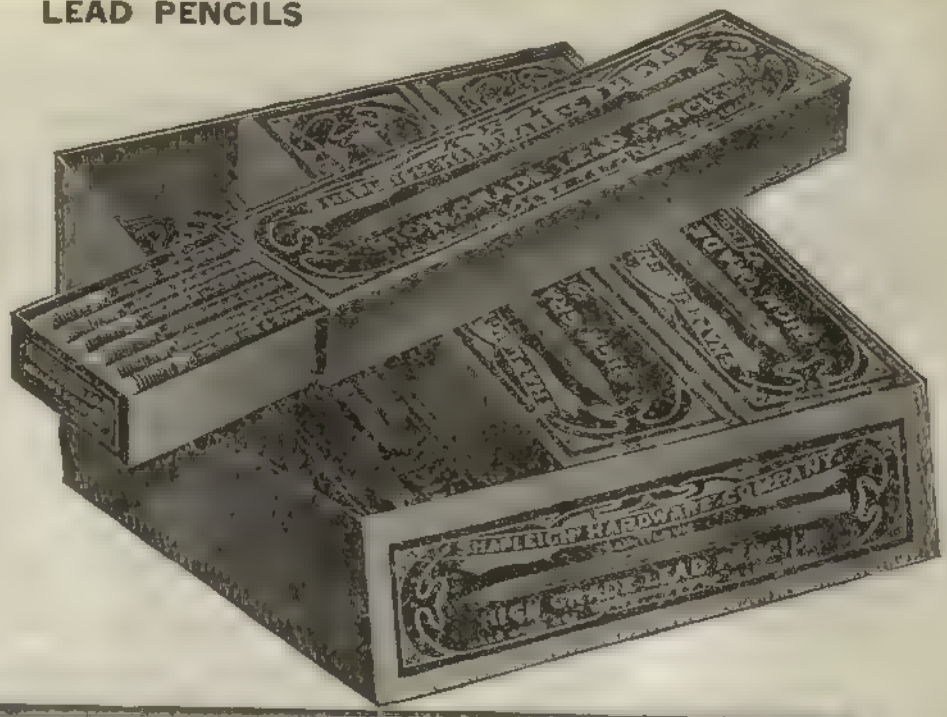
The Quality of Shapleigh's High Grade Lead Pencils Cannot be Excelled

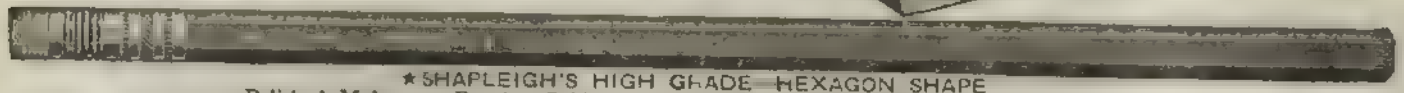
Every Pencil has the Name "Shapleigh's High Grade" Stamped in Gold. Only Goods of Perfect Quality can Bear this Name.

The Gauge of Lead Used is Large, Giving Increased Strength and Long Wearing Qualities.

One Dozen in a Box; Six Boxes in a Carton

Highest Quality Lead, Smooth and Free from Imperfections and of Uniform Temper; The Cedar is Best Grade, Fine, Smooth and Grainless; Does not Split; The Handsome Package Adds Tone to the Goods and Attracts Attention.



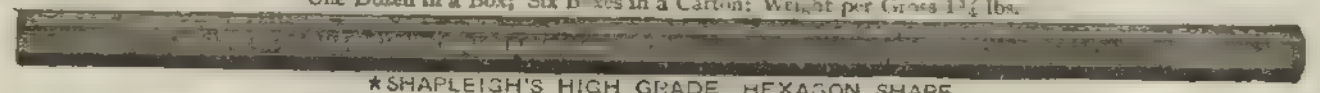


★SHAPLEIGH'S HIGH GRADE—HEXAGON SHAPE

Polished Mahogany Finish; Gold Stamp; Gilt Tip with Red Rubber; Length 7½ inches

	Per Gross
No. 726—No. 2 Lead; Shapleighs High Grade; Soft Lead	$8 50
No. 727—No. 3 Lead; Shapleighs High Grade; Medium Lead	8 50
No. 728—No. 4 Lead; Shapleighs High Grade; Hard Lead	8 50
No. 729—No. 5 Lead; Shapleighs High Grade; Extra Hard Lead	8 50

One Dozen in a Box; Six Boxes in a Carton; Weight per Gross 1¾ lbs.

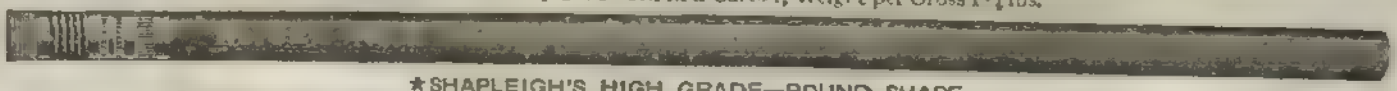


★SHAPLEIGH'S HIGH GRADE HEXAGON SHAPE

Polished Mahogany Finish, without Rubber

	Per Gross
No. 0726—No. 2 Lead; Shapleighs High Grade; Soft Lead	$8 00
No. 0727—No. 3 Lead; Shapleighs High Grade; Medium Lead	8 00
No. 0728—No. 4 Lead; Shapleighs High Grade, Hard Lead	8 00
No. 0725—No. 5 Lead; Shapleighs High Grade; Extra Hard Lead	8 00

One Dozen in a Box; Six Dozen in a Carton; Weight per Gross 1¾ lbs.

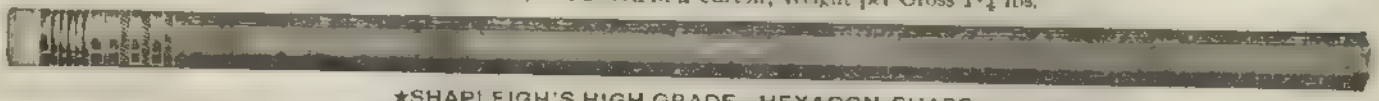


★SHAPLEIGH'S HIGH GRADE—ROUND SHAPE

Enameled in Vermilion and Sea Green Stripes; Gold Stamp; Gilt Tip; Red Rubber; Length 7½ inches

	Per Gross
No. 622—No. 2 Lead; Shapleighs High Grade; Soft Lead	$8 50
No. 623—No. 3 Lead; Shapleighs High Grade; Medium Lead	8 50

One Dozen in a Box; Six Dozen in a Carton; Weight per Gross 1¾ lbs.

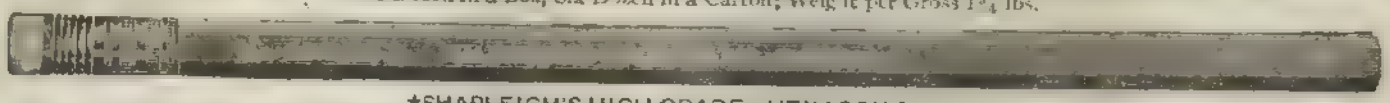


★SHAPLEIGH'S HIGH GRADE HEXAGON SHAPE

Enameled in Vermilion and Sea Green Stripes; Gold Stamp, Gilt Tip; Red Rubber, Length 7½ inches

	Per Gross
No. 522—No. 2 Lead; Shapleighs High Grade; Soft Lead	$8 50
No. 523—No. 3 Lead; Shapleighs High Grade; Medium Lead	8 50

One Dozen in a Box, Six Dozen in a Carton; Weight per Gross 1¾ lbs.



★SHAPLEIGH'S HIGH GRADE HEXAGON SHAPE

Yellow Finish Polished, Gold Stamp, Gilt Tip; Red Rubber; Length 7½ inches

	Per Gross
No. 421—No. 1 Lead; Shapleighs High Grade; Soft Lead, Extra Large	$7 50
No. 422—No. 2 Lead; Shapleighs High Grade; Soft Lead	7 50
No. 423—No. 3 Lead; Shapleighs High Grade; Medium Lead	7 50

One Dozen in a Box, Six Dozen in a Carton; Weight per Gross 1¾ lbs.

★SHAPLEIGH'S HIGH GRADE—HEXAGON SHAPE

Yellow Finish Polished; Gold Stamp; Without Rubber

	Per Gross
No. 10B—Extra Large Lead for Checking and General Use	$8 50

One Dozen in a Box, Six Dozen in a Carton; Weight per Gross 1¾ lbs.

HANGING LAMPS

A powerful outside lamp, not affected by wind or storm. It requires no chimney and gives a steady light double that of an ordinary gas street lamp at mush less cost. Has a stamped base and bail. May be filled, lighted and regulated without removing globe, and has self-extinguishing device. Gives a 22 candle power light and burns 24 hours.

Dietz Pioneer Cold Blast Hanging Lamp

No. 636—No. 3 burner, No. 9 globe, 1¼ inch wick, height over all 21½ in., green enamel finish.....Each $7.50

One in a Case

STREET LAMPS

A perfect street and platform lamp, not affected by sudden draughts or heavy winds. Produces a brighter light than gas and at a less cost. May be filled, lighted and regulated without removing the globe. Has a self-extinguishing device and may be set to burn for a certain number of hours. Gives a 22 candle power light and burns for 24 hours.

Dietz Pioneer Cold Blast Street

No. 634—No 3 burner, No. 9 globe, 1¼ in. wick, height over all 25½ inches, green enamel finish.....Each $6.50

One in a Case

PORTABLE ACETYLENE LIGHTS

MILBURN

No. 3X No. 2

The most perfect portable light ever devised. Cost from 4 to 6 cents an hour to operate. Burns more than half air, is smokeless, incandescent, absolutely storm proof, and unaffected by vibration, wind or weather. The flame can be regulated from the maximum light to a needle point. It lights instantly and requires no attention during use. Is furnished with a 15 inch non-tarnishing aluminum reflector, having a stamped steel back, which may be swung at any angle by means of a swing joint.

5,000 to 12,000 candle power. Lights 1500 feet, tank 12 x 12 x 36 inches, total height 6 ft., carbide charge 16 lbs., burns 9 to 18 hours

No. 3X—Weight 90 lbs.....Each $142.00

With Extra Cylinder.....$166.00

Similar to No. 3X except for its smaller size and candle power. Has a 12 in. non-tarnishing aluminum reflector. Cost from 3 to 5 cents an hour to operate. 5,000 candle power. Lights 1,000 feet, tank 10 x 10 x 30 in., total height 5 ft. Carbide charge 9 lbs., burns 6 to 12 hours.

No. 2—Weight 50 lbs. .. ...Each $100.00

With Extra Cylinder. 124.00

This is one of the most widely adaptable carbide lamps. The burner point is universal so it may be swung either horizontally or vertically. It is very easy to charge, due to wide mouth carbide chamber and funnel top water chamber. The lamp body is made of two seamless steel stamp ings, galvanized. The handle yoke and small parts are malleable castings. Has 6 in. reflector. Operating cost ½c per hour.

Height over bail, 11 in.; diameter, 6 in.

100 candle power, burns 6 hours.

No. 22—Weight 3 lbs.....Each $15.00

Where several small distributed lights are desired in preference to the highest power lights, or where the working area is not large, the Flarette is recommended. It is light in weight and very convenient for small work or supplementary lighting on large work. It is equipped with Standard Milburn burner and air mixing reflector holder, giving greater candle power and efficiency than any similar light of equivalent size. The burner standard is also fitted with a swing point for directing the light. Additional superior features are the Milburn carbide cylinder, which removes the spent sludge in recharging, making dumping of main tank unnecessary. Operating cost 3c per hour

Has 12 in aluminum reflector

Height over all, 7 ft.; tank 10¾ in. diam

3000 candle power, burns 12 hours.

Flarette

No. 6—Weight 43 lbs.....Each $70.00

This is one of the most useful and popular of Milburn lights. For building construction, small foundations, pits, trenches and tunnels, it is the most powerful light of its size to be found on the market. It is also extensively used in mining, by railroads and industrial plants. The clear, white acetylene light focused by its 10 in. polished aluminum reflector, may be directed at any angle by means of a double swing front on the burner pipe. An area of 40 ft. radius is brightly lighted by this lamp. The light is very simple to operate and is instantly recharged. Operating cost, 1c per hour

Height over all, 19 in.; tank, 7 x 14 in.

500 candle power, burns 10 hours.

Builders—Weight 11 lbs.....Each $40.00

EXTRA CYLINDERS

The extra cylinder comprises a set of trays, an inner receptacle and cover complete. Its use enables one to recharge the light instantly, thus doubling the burning capacity

No. 3X—Extra Cylinders.....Each $36.00

No. 2—Extra Cylinders. .. ..Each 24.00

MINERS' CARBIDE LAMPS AND LANTERNS

Justrite lamps are constructed on scientific principles. They are made in two parts, water reservoir and carbide container—drawn from seamless brass. The lever water feed consists of a valve enclosed in a ¼ inch tube, so constructed that it increases or decreases the supply of water, enabling the user to burn the flame at any size desired. The valve is operated by a lever sliding back and forth over notches, and held firmly in place by a small spring. The spiral water feed consists of a spiral valve stem, which fits snugly in the water tube and forces the water to travel around the spiral a distance of 7 inches. This increases the gas resistance about six times, prevents waste of gas, and produces an even, steady burning flame.

The reflector is polished and is part of the lamp. The water cap has water chamber to prevent leakage. Fits snug and is easy to open and close. The hook is riveted and soldered and will fit all caps.

CAP LAMPS

No. 85 No. 121

Round Hook

Polished brass, lever feed, lighter attachment, 2¼ in. reflector, 16.7 candle power, weighs 5 ounces.

No. 85—With No. 77 Carbide Can. Each $1.50
One in a Carton

Same as No. 85, except it has spiral feed

No. 121—With No. 68 Ex. Bottom.
Each $1.75
One in a Carton

Flat Hook

Polished brass, lever feed lighter attachment, 2¼ in. reflector, 16.7 candle power, weighs 5 ounces.

No. 414—With No. 77 Carbide Can
Each $1.50
One in a Carton

Polished brass, spiral feed, lighter attachment, 3 in. saucer shape reflector, 16.7 candle power, weight 5 ounces.

Northern Special, Flat Hook

No. 597—Lamp only.....Each $1.60
One in a Carton

SUPERINTENDENTS' LAMP

3 in. reflector, lever feed, lighter attachment. Large hook and folding handles, riveted and soldered inside. No. 76 extra carbide can included. Burns 4 hours on one filling of 3 ounces of carbide. 20 candle power. Weight 7 ozs.

No. 95—Nickel plated, highly polished.
Each..... $3.00
One in a Carton

HEAD LIGHTS

For Drivers, Motormen, Miners, Inspectors, etc. Made of brass, nickel plated, held firmly in cap shield by hook and clasp. Strong lens, 2⅛ in. diameter, ⅛ in. thick, set in hinged frame. Has self lighting attachment, German silver reflector. Burns 10 hours on one charge of carbide and water.

No. 44—Without cap.....Each $6.00
One in a Carton

INSPECTORS' LANTERN

20 candle power. Burns 5 to 6 hours with 3 ounces of carbide. Flame is controlled by the valve and can be turned high or low or extinguished, as desired. Made of brass throughout, nickel plated and highly polished. Removable German silver reflector.

No. 10—Weight 1½ pounds.....Each $6.00
One in a Tin Case

INTERCHANGEABLE CONTAINER

The 3 bottoms on container and bottom of lamp are carried into the mine half full of carbide, sufficient for a full day's work. When the bottom on lamp is exhausted, unscrew and put on a fresh bottom, screwing the used bottom into the container. Can be fastened on the belt or pants by the spring clasp.

No. 20—Polished brass.....Each $1.10
One Dozen in a Box

CARBIDE CONTAINERS

Drawn from seamless brass, small size.

No. 68 Brass Container
Per dozen $3.50
One Dozen in a Box

Carbide Cans

Made of light steel, tin coated, ribbed, double seamed, sliding air tight cover. Concaved to fit the boot or hip pocket. Lithographed in three colors.

No. 76—Capacity 7 oz. carbide..Per doz. $1.70
No. 77—Capacity 10 oz. carbide. Per doz. 1.70
One Dozen in a Box

MINERS' CAPS

Made of white canvas with metal and fibre shields.

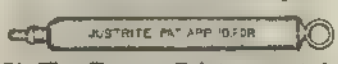
No. 235—Sizes 6¾, 7 and 7¼ inches.
Per dozen $1.00
One Dozen in a Box

EXTRA PARTS FOR JUSTRITE LAMPS

No. 26 Reflector

Polished brass, size 2½ in., has lighter attached, weighs 1 ounce, adjustable to fit any lamp, held firmly around tip holder by means of tightening screw in collar.....Each $0.40
One Dozen in a Box

No 172 Flints—For No. 26 reflector
Per dozen $0.70
One Dozen in an Envelope



No. 74 Tip Cleaner—Point protected when not in use.....Per dozen $1.50
One Dozen in a Box

No. 177—Lighter Complete....Per Doz. $2.00
Half Dozen in a Box

No. 66 No. 64

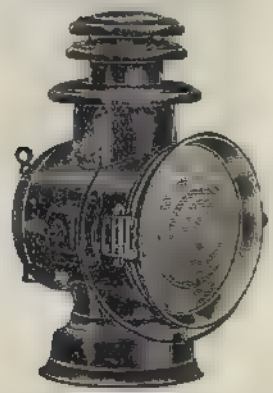
No. 66 Burner Tips for lamps... Per doz. .30
No. 64 Felt Holders for lamps .Per doz. .60
Packed as Ordered

DRIVING LAMPS

A handsomely finished lamp made of cold rolled steel that will comply with all night driving laws of states and cities. They will not jar or blow out. Parts, including non-tarnishing aluminum reflector, are removable. A clip spring permits their use as a dash lamp. Have both right and left hand sockets.

Dietz Union Driving Lamps

No. 579—Black enamel, with brass door rim, height over all 11¼ inches, 30 candle power, size of wick ⅝ inch, burns 10 hours.....Per dozen $55.00
Half Dozen in a Case



Dietz Union Driving Lamps

No. 580—Same as No. 579, except with optical lens which produces a 50 candle power light.....Per dozen $61.00
Half Dozen in a Case

A driving lamp made of cold rolled steel Will comply with night-driving laws and will not jar or blow out. Parts, including non-tarnishing aluminum reflector, are removable. Has both right and left hand sockets.

Dietz Octo Driving Lamps

No. 514—Black enamel, with brass door rim, height over all 9¾ inches, 30 candle-power, size of wick ⅝ inch, burns 10 hours.....Per dozen $54.00
Half Dozen in a Case

DRIVING LAMPS

This is an ideal lamp for use on all light driving vehicles in cities and suburbs. It complies with the various night driving laws, showing a white light to the front and a large ruby signal that can be readily seen from the rear. The total height of lamp is 7½ inches and it has a three inch door lens All parts are removable for cleaning. The fount holds sufficient oil to burn 10 hours and is packed with cotton to prevent oil working out. It is fitted with Dietz Patent Winglock burner and wick will not jar down. A dash clamp holder is provided with each lamp.

Dietz Little Eureka Driving

No. 516—Black enamel, with nickel plated door.....Per dozen $24.00
One Dozen in a Case

LAMP AND LANTERN BRACKETS

Style A

Style B

STYLE A—For fastening to dash. Will fit the following lanterns: Junior and Victor wagon lamps; Union, Octo and Eureka dash lamps. Per dozen $4.00

STYLE B—Especially adapted for covered wagons; may be screwed to supports. Will fit the following lanterns: Junior and Victor wagon lamps; Union, Octo and Eureka dash lamps.....Per dozen $4.00

DISPLAY STAND ASSORTMENT

Assortment contains one each 500 Blizzard Lantern, 501 Wizard Lantern, 503 Little Wizard Lantern, 505 Special Blizzard Lantern No 1 Victor Hot Blast Lantern, 518 Monarch Lantern, 509 Junior Lantern, No. 2 D'Lite Brass Fount and Dome Lantern, 570 Buckeye Dash Lamp, 512 Junior Side Lamp, 516 Eureka Driving Lamp, 514 Octo Driving Lamp, and One Display Stand.

No. 12—Assortment of 1 doz. Lanterns with Display Stand.....Each $25.00
One in a Case

RAILROAD LANTERNS

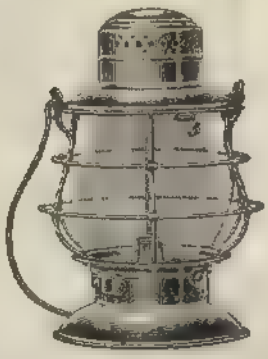
These lanterns are substantially constructed of polished brass, and are handsome in appearance

Dietz Conductors'

No. 3—Polished brass base, No. 1 ratchet burner, ⅝ in. wick, for signal oil, white conductor globe, burns 13 hours, height over all 9½ inches ..... Each $ 6.00
One Dozen in a Case

Dietz Conductors'

No. 8—Polished brass wire base, No. 1 ratchet burner, ⅝ in. wick, for signal oil, white conductor globe, burns 13 hours, height over all 9½ inches ..... Each $ 7.00
One Dozen in a Case



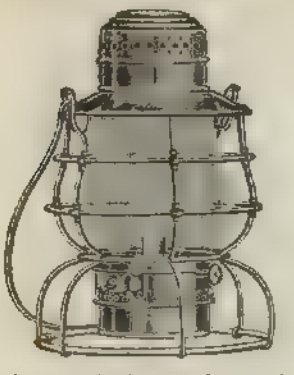
Made with round wire guards and heavy stamped base. The upright guard wires are locked to the base ring by a patent band The oil fount is held securely to the frame by a patent automatic retaining spring, which permits the fount being removed with one hand. The fount is provided with a well which prevents the oil from sloshing. Burns 24 hours. With outside wick raiser.

Dietz Standard Railroad

No. 674—For signal oil, bright tin, No. 2 ratchet burner, No. 39 globe, 1 inch wick, height over all 10 in. Per dozen $18.00

One Dozen in a Case

RAILROAD LANTERNS



Made with round wire guards and skeleton base. The upright guard wires are securely locked to the lower band by a metallic strip making it the strongest lantern of its kind on the market. The oil fount is held securely to the frame by a patent automatic retaining spring, which permits the fount being removed with one hand. The fount is provided with a well which prevents the oil from sloshing. Burns 24 hours. With outside wick raiser

Dietz Vulcan Improved Railroad

No. 676—For signal oil, bright tin, No 2 Ratchet burner, No. 39 globe, 1 inch wick, height over all 10 inches.....Per dozen $17.00

One Dozen in a Case

This lantern is made to fill the exacting requirements of the practical switchman. It is light and compact, and has a comfortable insulated bail that can be locked in an upright position for signalling. Flame is regulated from outside. The fount is held securely to the frame by a patent retaining spring, which permits the fount being removed with one hand. The fount is provided with a well which prevents sloshing. Burns 24 hours.

Dietz ~~X-L-C-R~~ Switchman's No. 2

No. 677—For signal oil, bright tin, No 2 burner, No. 39 globe, 1 inch wick, height over all 9 inches. Per dozen $24.00

One Dozen in a Case

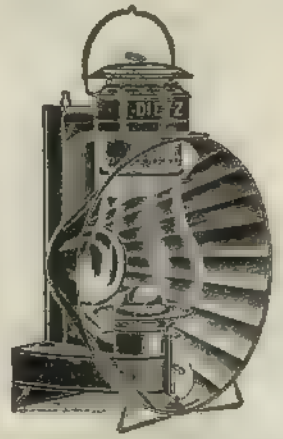
LANTERNS

A handy and compact lamp giving a strong reflected light. Has a rigid handle, which is comfortable, and insures the light being thrown at the proper angle. These lamps are made to endure rough use, the frames being reinforced with a strip of flat steel, well soldered. Fitted with a bright tin hood and a 5 inch spun metal polished and plated reflector. Have solderless oil fount, with safety oil well. Burns 20 hours.

Dietz Acme Hot Blast Inspectors

No. 683—Bright tin, No. 1, Acme burner, No. OT globe, ¾-inch wick, height over all 15½ in ..Per dozen $27.00

Half Dozen in a Case



These lights are useful wherever a strong reflected light is required. May be lighted and regulated without removing the globe These lamps are portable being equipped with bails.

Dietz Cold Blast Beacon

No. 617 Green enameled, No. 2 burner, No. OC globe, wick 1 inch, height over all 15¼ in, burns 35 hours, gives 50 candle power...Per dozen $42.00

Half Dozen in a Case

No. 618—Green enameled, No. 3 burner, No. 4 globe wick 1⅛ inches, height over all 20½ inches, burns 30 hours, gives 100 candle power..Per dozen $96.00

Twelfth Dozen in a Case

LANTERNS

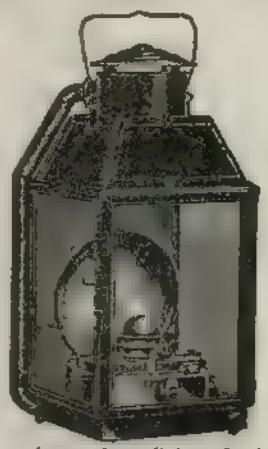
Brass body, burner and top. Globe screws into body and top

Cadet

No. 639—With No. 0 burner, Cadet plain globe, ⅛ inch wick. Per dozen $4.00

Six Dozen in a Case

LAMPS



Gives a clear white light of about 100 candle power strength. Has an 8 inch silvered glass reflector. Burns 17 hours. Finished in green enamel

Dietz Imperial Cold Blast Square

No 626- Size 21x10½x10¾ in deep, No. 4 patented burner, 1½ in. wick Each $10.00

One in a Case

Adapted for both indoor and outdoor use. May be used for gas by substituting a gas pipe and burner in place of the oil fount and burner. Finished in green enamel.

Dietz Climax Platform

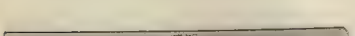
No. 625—Size 15 x 8¾ x 7⅝ in deep, No. 737 burner, ⅝ in. wick, No. 1 chimney, 7 in silvered glass reflector, burns 20 hours.....Each $5.50

No. 627—Size 17⅛ x 10¼ x 8¾ in. deep, No. 738 burner, 1 in. wick, No. 2 chimney, 8 in. silvered glass reflector, burns 23 hours.....Each $6.50

One in a Case

CROSS-CUT SAWS.

+SPECIAL RIVERSIDE, FALLING.



Extra crucible cast steel; highly polished, specially hardened and tempered; taper ground. Extra thin back; cutting edge, 14 gauge; back, 18 gauge. Filed and set ready for use.

Nos.	SRF-5	SRF-5½	SRF-6
Length, feet	5	5½	6
Width, center, ins.	5¼	5⅝	5⅝
Width, ends, ins.	3	3¼	3¼
Weight each, lbs.	4½	5½	6¾
Each	$3.30	3.60	4.00

DISSTON'S TENON TOOTH.

Taper ground. Two gauges thinner on back than on tooth edge, to prevent binding of saw. Filed and set ready for use.

Nos.	DT2-4½	DT2-5	DT2-5½
Length, feet	4½	5	5½
Width, center, ins.	6½	6¾	7
Width, ends, ins.	3⅜	3⅝	3⅝
Weight each, lbs.	4½	5⅝	7
Each	$2.80	3.10	3.40

DISSTON'S CHAMPION TOOTH.

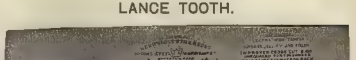
Special process crucible steel; highly polished; specially hardened and tempered; taper ground from cutting edge to back to prevent binding. Thickness of cutting edge, 14 gauge; thickness at back, 18 gauge. Filed and set ready for use.

Nos.	DC1-5	DC1-5½	DC1-6
Length, feet	5	5½	6
Width, center, ins.	7	7⅜	7¾
Width, ends, ins.	3½	3½	3½
Weight each, lbs.	4⅝	5⅝	7
Each	$3.40	3.70	4.10

Thickness of cutting edge, 14 gauge; thickness of back, 16 gauge. Filed and set ready for use.

Nos.	DC2-5	DC2-5½	DC2-6
Length, feet	5	5½	6
Width center, inches	7	7¼	7⅝
Width ends, inches	3½	3½	3⅝
Weight each, lbs.	5½	6⅝	7¾
Each	$3.10	3.40	3.70

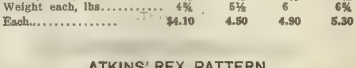
DISSTON'S PERFORATED LANCE TOOTH.



Special process crucible steel; highly polished; specially hardened and tempered; taper ground from cutting edge to back to prevent binding. Cutting edge, 14 gauge; back, 18 gauge. Filed and set ready for use.

Nos.	DPL-5	DPL-5½	DPL-6	DPL-6½
Length, feet	5	5½	6	6½
Width, center, ins.	5⅞	6⅛	6½	6⅞
Width, ends, ins.	3⅝	3¼	3⅝	3½
Weight each, lbs.	4⅝	5½	6	6⅝
Each	$4.10	4.50	4.90	5.30

ATKINS' REX PATTERN.

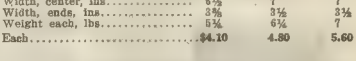


High grade saw steel, thoroughly tempered, polished and etched; ground gradually thinner from teeth to back. Cutting edge, 14 gauge; back at ends, 16 gauge; in center, 19 gauge. Filed and set, ready for use.

Nos.	AR-5	AR-5½	AR-6
Length, feet	5	5½	6
Width, center, ins.	6½	7	7
Width, ends, ins.	3⅝	3½	3½
Weight each, lbs.	5¼	6¼	7
Each	$4.10	4.80	5.60

NARROW CROSS-CUT SAWS.

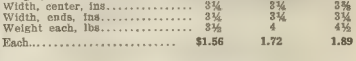
+RIVERSIDE CHAMPION TOOTH.



Designed for small timber. Extra quality saw steel; evenly tempered, polished and etched. Filed and set, ready for use.

Nos.	RNC-5	RNC-5½	RNC-6
Length, feet	5	5½	6
Width, center, ins.	3¼	3⅜	3⅜
Width, ends, ins.	3¼	3¼	3¼
Weight each, lbs.	3½	4	4½
Each	$1.56	1.72	1.89

DISSTON'S TRIUMPH, CHAMPION TOOTH.



High grade spring steel, evenly tempered, polished and etched. Filed and set, ready for use.

Nos.	DTNC-5	DTNC-5½	DTNC-6
Length, feet	5	5½	6
Width, center, ins.	3¼	3⅜	3¼
Width, ends, ins.	3¼	3¼	3¼
Weight each, lbs.	3¼	3⅜	4¼
Each	$1.70	1.86	2.04

All above saws in bulk.

SAW BLADES.

BUTCHER.

+GILT EDGE.

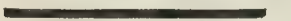
+Farwell, Ozmun, Kirk & Co.'s Gilt Edge blued clock spring.

Length, inches	22	24	26	28	30
Width, inches	¾	¾	¾	¾	¾
Wgt. per doz., lbs	1	1¼	1½	1⅝	1½
Per dozen	$8.60	9.20	9.50	10.00	10.50

ECONOMY.

Length, inches	22	24	26
Width, inches	¾	¾	¾
Wgt. per doz., lbs	1	1¼	1½
Per dozen	$2.40	2.60	2.80

BRIGHT.



Length, inches	18	20	22	24	26	28
Width, inches	¾	¾	¾	¾	¾	¾
Wgt. per doz., lbs	⅞	1	1	1¼	1¼	1⅜
Per dozen	$6.00	6.30	6.60	6.90	7.20	7.60

BLUED CLOCK SPRING.

Length, inches	22	24	26	28
Width, inches	¾	¾	¾	¾
Wgt. per doz., lbs	1	1	1¼	1⅜
Per dozen	$7.30	7.60	8.00	8.40

BUTCHERS' SAW BLADES IN COILS.

Tempered steel, ⅝ inch wide, in coils. Filed, set and sharpened.

Per Box.

No. A—Bright Blades, 50 feet in a coil $6.00

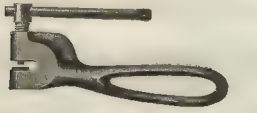
No. AB—Blued Blades, 50 feet in a coil 6.00

No. B—Bright Blades, 25 feet in a coil 3.00

No. BB—Blued Blades, 25 feet in a coil 3.00

One coil in a box; wgt. per doz., 50-ft. coils, 2½ lbs. each; 25-ft. coils, 1½ lbs. each.

SAW BLADE PUNCHES.



tool specially adapted for punching butcher saw blades or any light steel. It is particularly recommended for use with the Goodell coil butcher saw blade.

Each

No. 200—Goodell punch; malleable iron frame; screw and crowbar hardened steel, nickel plated; length over all, 5¾ inches; weight per dozen, 6 lbs $0.80

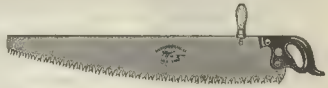
One in a box.

CROSS CUT SAWS.

ONE MAN.

+RIVERSIDE, CHAMPION TOOTH.

Special steel, evenly tempered, polished and etched; beechwood handle, varnished edges, one supplementary handle; three brass screws. Filed and set, ready for use.



Nos	ROMC-3½	ROMC-4	ROMC-4½
Length, feet	3½	4	4½
Width point, inches	2	2	2½
Weight each, lbs	3¾	4¼	5¼
Each	$2.60	3.00	3.70

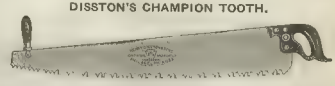
DISSTON'S PERFORATED LANCE TOOTH.

Best quality crucible steel, tempered, polished and etched. Beechwood handle, plain sides, varnished edges, four brass screws. One supplementary handle. Filed and set, ready for use.

Nos	DOMPL2-3½
Length, feet	3½
Width, point, ins	2⅞
Weight each, lbs	4½
Each	$3.20

Nos	DOMPL2-4	DOMPL2-4½	DOMPL2-5
Length, feet	4	4½	5
Width, point, ins	2⅞	3	3⅛
Weight each, lbs	4¾	6	6¾
Each	$3.60	4.10	4.50

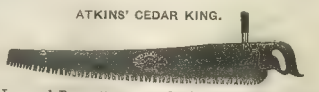
DISSTON'S CHAMPION TOOTH.



Nos	DOMC2-3	DOMC2-3½
Length, ft	3	3½
Width, point, ins	2¼	2⅝
Weight, each, lbs	3	4½
Each	$2.30	2.70

Nos	DOMC2-4	DOMC2-4½	DOMC2-5
Length, ft	4	4½	5
Width, point, ins	2⅝	2⅝	2¾
Weight each, lbs	4½	5¾	6¾
Each	$3.10	3.40	3.80

ATKINS' CEDAR KING.



Improved Rex pattern, swaged raker teeth, carved handle, skew back, made of best crucible steel. Filed and set ready for use.

Nos	AOMCK-3½	AOMCK-4	AOMCK-4½
Length, feet	3½	4	4½
Width point, inches	2½	3	3
Weight each, lbs	3½	5	6¾
Each	$2.45	2.80	3.15

CROSS-CUT SAWS

DISSTON'S

Finest crucible steel, hardened and tempered by the special Disston method, taper ground, uniform in thickness at the cutting edges, tapering accurately to the thin back, ground and set ready for use.

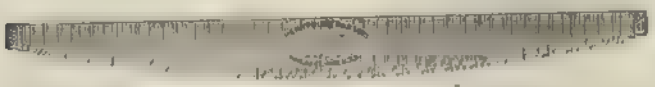
Extra thin back, 14x18 gauge

Tuttle Tooth

No. 1—Length, feet	5	5½	6	6½
Each	$3.25	3.57	3.90	4.22

Thin back, 14x16 gauge

No. 2—Length, feet	5	5½	6	6½
Each	$3.00	3.30	3.60	3.90



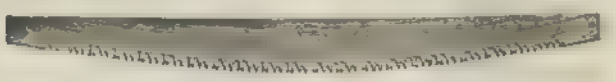
Six gauges thinner on back than on tooth edge

Virginian

Length, feet	5	5½	6	6½
Each	$4.55	5.30	6.20	7.10

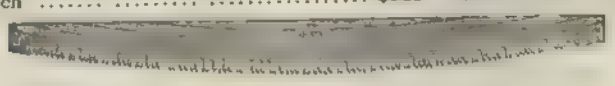
SIMOND'S

Crucible mill steel, crescent ground, evenly tempered, and holds a good cutting edge. Does not require as much set as saws that are not crescent ground and does not bind at the kerf. Tempered.



Champion Tooth

No. 13—Length, feet	5	5½	6	6½
Each	$4.30	5.10	5.90	6.80



Lance Tooth

No. 22—Length, feet	5	5½	6	6½
Each	$4.30	5.10	5.90	6.80

Felling

No. 113—Length, feet	5	5½	6	6½
Each	$4.30	5.10	5.90	6.80

Extra thin back, 14x18 gauge

Bay State

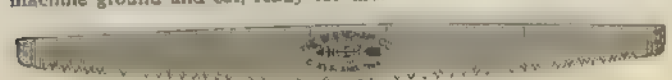
No. 208—Length, feet	5	5½	6	6½
Each	$3.20	3.52	3.84	4.16

Narrow Hollow Back, Bay State

No. 214—Length, feet	5	5½	6	6½
Each	$1.90	2.10	2.30	2.50

EXCEL

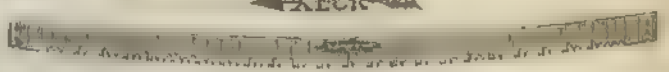
Extra quality saw steel, polished and etched, specially tempered, machine ground and set, ready for use.



Thin back, 14x16 gauge

Tenon or Common Tooth

No. 148—Length, feet	4	4½	5
Each	$2.40	2.70	3.00



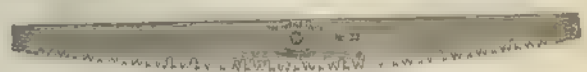
Width 3¼ inches, 14 gauge

Narrow Hollow Back, Tuttle Tooth

No. 14—Length, feet	5	5½	6	6½
Each	$1.80	1.98	2.16	2.34

ATKINS'

Made of special steel, polished and etched. Each blade accurately taper ground from cutting edge to back, carefully tempered, ground and set, ready for use.



Extra thin back, 14x18 gauge, diamond point

Tuttle Tooth

No. 881—Length, feet	5	5½	6	6½
Each	$2.60	2.86	3.12	3.38

Extra, extra thin back, 14x19 gauge diamond point

No. 882—Length, feet	5	5½	6	6½
Each	$3.10	3.36	3.62	3.88

Segment ground, 14 gauge on tooth edge, 17 gauge on the end of back, and 20 gauge at center of back, 7 inches wide at center, 3¼ inches wide at ends. Especially adapted for cutting soft woods.

Rex Silver Steel

No. 549—Length, feet	5	5½	6	6½
Each	$4.10	4.80	5.60	6.40

ONE MAN CROSS CUT SAWS

DISSTON'S

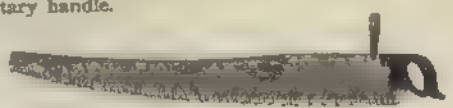
Skew back, high grade crucible steel, taper ground, tempered and set ready for use. Handle fastened with four screws, and with supplementary handle which can be used either at point or near the main handle

Two Cutter

No. D10—Length, feet	3½	4	4½
Each	$3.15	3.60	4.05

SIMOND'S

High grade crucible steel, sway back, straight ground, evenly tempered, ground and set, ready for use, hardwood handle with wood supplementary handle.

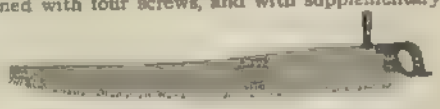


Two slim cutting teeth and raker

No. 112—Length, feet	3½	4	4½
Each	$2.65	3.00	3.40

ATKINS' "CEDAR KING"

Skew back, high grade special steel, taper ground. Easy grip handle fastened with four screws, and with supplementary handle.



Two cutting teeth and raker

No. 389—Length, feet	3½	4	4½
Each	$2.45	2.80	3.15

EXCEL

Crucible steel, straight back, taper ground and etched, even temper, ground and set, ready for use, hardwood handle with three screws, wood supplementary handle.

Tuttle Tooth

No. 1415—Length, feet	3	3½	4	4½	5
Each	$2.10	2.45	2.80	3.15	3.50

HAND OR WAGON ICE SAWS

Crucible steel blade, ground and tempered ready for use. Malleable iron handle, large V shape teeth.

Disston's

No. 73—Length 30 inches....Per dozen $22 00

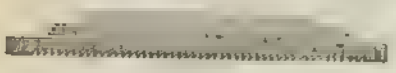
POND ICE SAWS

Crucible steel blade ground and set ready for use.

With 7 inch butt, 5 inch point, 11 gauge, complete with tiller handles.

No. 7511—Length, feet.....	4½	5
Each	$4 95	5.35

TURNING OR CHAIR WEBS

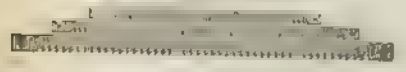


Set and sharpened ready for use.

Length, in.	10	12	14
Width, in., asstd	3/16 to ¼	7/16 to 5/16	3/16 to 5/16
Gauge	22	21	21
Per dozen $1.35		1.45	1 00
Length, in.	16	18	20
Width, in., asstd....	¼ to ⅜	⅛ to ½	¼ to ⅜
Gauge	20	20	20
Per dozen $1.80		2.00	2.25
Length, inches		22	24
Width, in., asstd.		¼ to ⅜	¼ to ⅜
Gauge		20	19
Per dozen		$2.50	2.80

NOTE—Webs 3/16 inch wide have 10 points to the inch, ¼-9, ⅜-7½, ½-7, ⅝-6½ and ¾-6.

FELLOE WEBS

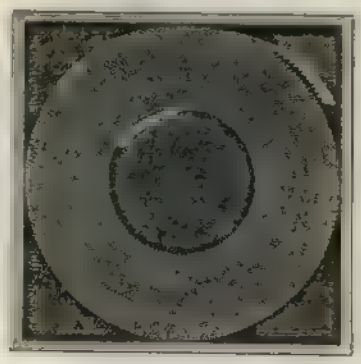


Set and sharpened, ready for use.

Length, in.	10	12	14
Width, in., asstd.	5/16 to ⅜	⅜ to ½	⅜ to ½
Gauge	18	18	17
Per dozen $1.60		1.85	2 10
Length, inches ..	16	18	20
Width, in., asstd	¼ to ⅝	⅜ to ⅝	⅜ to ¾
Gauge	17	17	17
Per dozen $2.35		2.70	3.00
Length inches ..		22	24
Width, inches, asstd.		⅜ to ⅝	⅜ to ⅝
Gauge		17	17
Per dozen		$3.30	3.66

NOTE—Webs 5/16 inch wide have 9 points to the inch, ¼-8, 5/16-8½, ⅜-6, 7/16-5½, ½-5 and 5/8-4½.

NARROW BAND SAWS
SET AND FILED, NOT JOINED



Made from high grade crucible steel hardened and tempered.

Width In.	Standard Gauge	Points Per Inch	Per Foot	Net Each for Joining
⅛	22	6	$0.16	$0.20
3/16	21	5½	.17	.20
¼	21	5	.18	.20
5/16	21	4½	.20	.25
⅜	21	4	.22	.25
7/16	21	4	.25]	.25
½	20	3½	.27	.30
9/16	20	3½	.29	.30
⅝	20	3½	.31	.30
11/16	20	3	.35	.35
¾	20	3	.38	.35
13/16	20	3	.41	.35

Extra for tempering band saws for sawing metal, add 50% to above list.

Narrow band saws, beveled backs, advance list 50 per cent for first gauge and 10 per cent for each additional gauge. For band saws with knife edge, add 10 cents per foot to list.

SOFT BACK OR FLEXIBLE BAND SAWS

Hardened on tooth edge only for cutting metal.

Width In.	Standard Gauge	Points per Inch	Per Foot	Net Each, for Joining
⅛	23	16, 19, 22, 26	$0.08½	$0.15
3/16	23	16, 19, 22, 26	.10½	.15
¼	21	14, 16, 18, 22	.11½	.15
½	23	16, 19, 22, 26	.11½	.15
5/8	21	14, 16, 18, 22	.13½	.20
5/8	23	14, 16, 18, 22	.13½	.20
¾	21	14, 16, 18	.15½	.20

Can furnish in special length or coils. Give full particulars when ordering.

WIDE BAND SAWS
JOINED, FILED, SET AND FITTED

Made from high grade crucible steel, hardened and tempered by special process.

Width Inches	Usual Gauge "Stubs"	Per Foot
2	18—20	$0.80
2½	18—20	1.00
3	18—20	1.20
3½	18—20	1.40
4	17—19	1.60
4½	17—19	1.80
5	17—19	2.00
5½	17—19	2.20
6	17—19	2.40
7	16—18	2.80
8	14—16	3.20
9	14—16	3.60
10	14—16	4.00
11	14—16	4.50
12	13—15	5.00
13	13—15	6.00
14	13—15	7.00
15	12—14	8.50
16	12—14	10.00
17	12—14	14.00
18	12—14	18.00

Saws of odd widths, not listed, take price of next wider size listed. Saws of heavier gauge than listed, add 5% to list for each gauge heavier. No extra charge for saws one or two gauges thinner than list. When more than 2 gauges thinner, add 5% to list for each gauge.

DOUBLE EDGE BAND SAWS

List price per foot, all widths, advance 10% over list price on single edge saws in gauges as shown above.

INSTRUCTIONS FOR ORDERING

When ordering band saws, state whether right or left hand, gauge or thickness, space, depth and shape of teeth, straight or crown back. If the saws are to be crowning on back, they are finished 1/32 inch crowning to each five feet in length unless otherwise ordered.

HANDY SAW KITS

The combination of blades in this set provides a handy kit for the mechanic, householder, farmer, etc. Hardwood handle, carved and polished, special adjustable lever and bolt. The plumbers' saw blade is specially tempered for cutting nails, bolts, gas pipe, soil pipe, etc.

Contents as follows:

1 only 20 inch, 10 point cross-cut saw blade.
1 only 20 inch, 7 point rip saw blade.
1 only 18 inch plumbers' saw blade.
1 only 14 inch compass saw blade.
1 only 12 inch keyhole saw blade.
1 only adjustable handle. Put up a durable canvas case, leather bound, separate compartments for each blade and extra pocket for handle.

Disston's

No. 102—Five blade set complete..Each $4.00

This set is especially adapted for plumber's use. The handle and case are the same as in the No. 102 set.

Contents as follows:

1 only 20 inch, 10 point cross-cut saw blade.
1 only 18 inch plumber's saw blade.
1 only 16 inch special blade for cutting lead pipe
1 only 14 inch compass saw blade.
1 only adjustable handle.

Disston's

No. 201—Four blade set complete..Each $3.50

COPING SAWS

Polished nickel plated tubular frame, through which runs cable, which, by turning handle, blade can be adjusted to any angle, hardwood handle depth of cut 4 inches.

Jones' Cable

No. 1—Blade 6 inches, complete with 6 blades .....Per dozen $15.00
Sixth Dozen in a Box

COPING SAWS

Heavy steel wire nickeled frame, polished cocobolo handle. Frame may be locked rigid or can be adjusted to swing free. Ball bearings under outer head.

Millers Falls

No. 62—Complete with three No. 60 blades to each frame.....Per dozen $14.00
Quarter Dozen in a Box

EXTRA BLADES

No. 60—6x⅝ inches, with pins in the ends for above frame, or can be used with any frame requiring 6 in. blades .....Per gross $5.50
One Gross in a Box

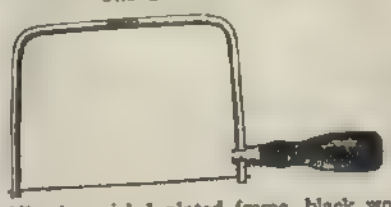
Atkins

Back made of cold rolled steel, ⅝ in. wide and ⅛ in. thick, nickeled and buffed. Frame 7¼ in. long by 4⅝ in. deep, fastened to handle by malleable iron threaded ferrule. Handle, carved and polished hardwood, easy grip pattern.

No. 50—Complete with one 6½ in. blade .....Per dozen $10.00
Sixth Dozen in a Box

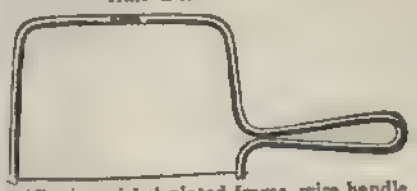
EXTRA BLADES

No. 50B—6½ inch.....Per dozen $0.85
One Gross in a Box



All wire nickel plated frame, black wood handle.

No. 110—6 in. bent end blades, complete with 12 extra blades .....Per dozen $4.00
Half Dozen in a Box



All wire nickel plated frame, wire handle.

No. 100—6 inch bent end blades, complete with 12 extra blades.Per dozen $3.25
Half Dozen in a Box

EXTRA BLADES

No. 6—6x1/16 inches, for Nos. 110 and 100 Coping Saw frames....Per gross $1.50
One Gross in a Box

JEWELERS' SAWS

Forged spring steel frame nickel plated, cocobolo handle. Adjustable from 4 to 6 in.

Millers Falls

No. 10—Without blades.....Per dozen $14.00
Quarter Dozen in a Box

EXTRA BLADES

No. 10B—Assorted.....Per gross $1.25
One Gross in a Box

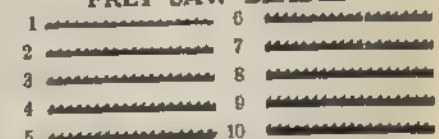
FRET SAW SETS

Spring steel frame, polished and nickeled, 12x5 inches, rosewood handle, patent clamps. Other contents of set are as follows: 12 saw blades, 1 awl, 1 sheet of impression paper and 3 sheets of designs.

Millers Falls

No. 2—Set complete.....Per dozen $12.00
One set in a Box

FRET SAW BLADES



Tempered spring steel, 5 inches long

Star						
Nos.	3/0	2/0	1/0	1	2	3
Per gross	$1.00	1.00	1.00	1.00	1.00	1.00
Nos.	4	5	6	7	8	
Per gross	$1.00	1.00	1.00	1.10	1.20	
Nos.	9	10	11	12		
Per gross	$1.30	1.40	1.50	1.60		

NOTE—No. 3/0 is the finest, No. 12 is the coarsest.

One Gross in a Package

SCROLL OR FRET SAWS

NEW ROGERS

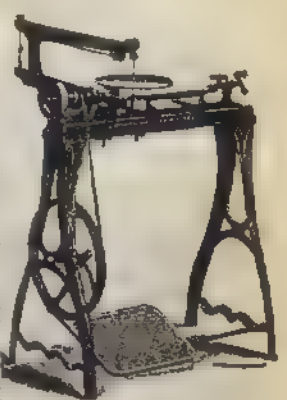
Automatic dust blower, jointed stretch rod, drilling attachment, 12 blades, 1 wrench 3 sheets of designs, 4 awl, impression paper and drill points with each machine

No. 1—Japanned tilting table and iron balance wheel .....Each $6.00

No. 2—Nickeled tilting table and emery balance wheel .....Each 6.50

One in a Wooden Box

COMPANION LATHE



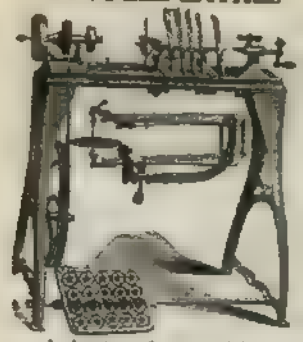
Lathe and saw attachments, japanned iron castings, drive wheel and cone pulley with two grooves for change of speed, long and short tool rests, three turning tools. Lathe head, with 2 inch face plate, spur center and screw center for turning caps, emery wheel 4½ x⅞ inches. Swing of lathe 5 in., between centers, 13½ in., bed from floor, 27 in., length of bed 24 inches.

No. 3—Lathe and lathe tools without saw attachment .....Each $10.50
No. 3SA—Scroll saw attachment..Each 3.00
No. 3CA—Circular saw attachment, saw table 6x7 inches, saw blade 3 inches diameter .....Each 1.25

Note—In ordering, state whether either or both saw attachments are wanted.

One Each in a Wooden Box

GOODELL LATHES



Long and short tool rests, drive wheel and cone pulley with two grooves to permit change of speeds, lathe head with 2 inch face plate and spur center and screw center for turning cups, emery wheel 4½x⅝ inch, five turning tools, wrench, drill points, etc. Swing of lathe 5 in., length of bed 24 in., distance between centers 13½ in.

The scroll sawing attachment, as shown in the cut, is secured to the lathe bed by one bolt, and can be put on or off at pleasure. This attachment has all of the improvements found in any scroll saws.

The circular saw attachment consists of a saw table 6x7 in., a saw 3 in. in diameter, and a saw arbor. The lathe rest socket is used to support the table.

This lathe is thoroughly built and highly finished, the polished parts being nickel plated.

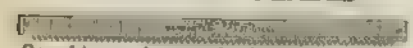
Each

No. 5—Lathe and lathe tools $13.00
No. 58A—Scroll saw attachment..... 3.00
No. 60A—Circular saw attachment..... 1.25

In ordering please state whether either or both of the saw attachments are wanted.

One in a Wooden Box

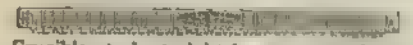
WOOD SAW BLADES



Crucible steel, straight breast, ground, set tempered and sharpened, 2x30 inches, full polished.

Disston's

No. 04V—Regular V tooth...Per dozen $4.50



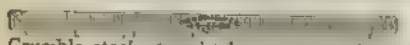
Crucible steel, straight breast, ground, tempered, set and sharpened, 2x30 inches, full polished.

Disston's

No. 04C—Regular Champion tooth.
Per dozen $5.00

Crucible steel, straight breast, ground tempered, set and sharpened, 2x30 inches, blued and etched. XLCR

No. 05V—Regular V tooth...Per dozen $7.10



Crucible steel, straight breast ground, tempered, set and sharpened, 2x30 inches blued and etched. XLCR

No. 06C—Regular Champion tooth.
Per dozen $7.10

Crucible steel, straight breast, ground, tempered, set and sharpened, 2x30 inches, blued and etched. XLCR

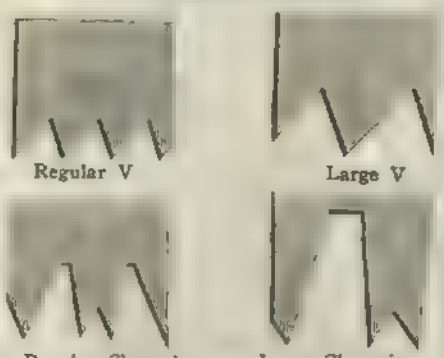
No. 05LV—Large V tooth....Per dozen $7.50

Crucible steel, straight breast ground, tempered, set and sharpened 2x30 inches, blued and etched XLCR

No. 06LC—Large Champion tooth.
Per dozen $7.50

One Dozen in a Bundle

STYLES OF TEETH FOR WOOD SAW BLADES



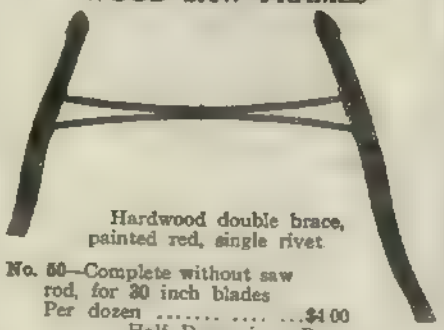
Above are actual Sizes

SAW BUCKS

Selected maple, natural finish. The legs are 2 x ⅞ x 30 in. Malleable iron castings at each side of the center brace When opened the top of center brace is 15½ in. from the ground.

No. 3...Per dozen $8.50
Half Dozen in a Crate

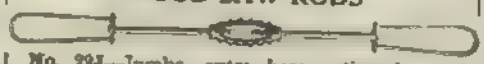
WOOD SAW FRAMES



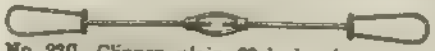
Hardwood double brace, painted red, single rivet

No. 50—Complete without saw rod, for 30 inch blades
Per dozen $4.00
Half Dozen in a Box

WOOD SAW RODS



No. 22J—Jumbo, extra heavy, tinned wire, 22 inches long for 30 in. saw blade .....Per dozen $1.75
One Dozen in a Package



No. 22C—Clipper, plain, 22 inches long, for 30 in. saw blades.....Per dozen $1.25
One Dozen in a Package

WOOD SAWS

Single brace, hardwood frame, stained red and varnished, fitted with No 04V regular V tooth polished blade, 2x30 inches, and plain clipper rod

Disston's

No. 4 .....Per dozen $8.50
Half Dozen in a Box

WOOD SAWS

Double brace, applewood frame, varnished, fitted with BBB regular V tooth blade, straight breast, 2x 30 inches, polished and etched, tinned Jumbo rod.

BBB

No. B12 .....Per dozen $12.00
Half Dozen in a Box

Double brace, applewood frame, varnished, fitted with BBB regular Champion tooth blade, straight breast, polished and etched, 2x30 inches, tinned Jumbo rod.

BBB

No. B13 .....Per dozen $12.00
Half Dozen in a Box

Double brace, special hardwood frame, stained red and varnished, fitted with No. 05V regular V tooth 2x30 in blued blade and plain clipper rod

XLCR

No. 5 .....Per dozen $9.50
Half Dozen in a Box

No. 50—Same as No 5 only with No 05LV large V tooth blade.
Per dozen 10.00
Half Dozen in a Box

Double brace, special hardwood frame, stained red and varnished, fitted with No. 06C regular Champion tooth blued blade, 2x30 in., and plain clipper rod.

XLCR

No. 6 .....Per dozen $10.00
No. 60—Same as No 6, only fitted with No. 06LC—large Champion tooth blade .....Per dozen 10.50
Half Dozen in a Box

CEMENT OR CONCRETE SIDEWALK TOOLS

ZENITH PATTERN

SIDEWALK EDGERS, ZENITH PATTERN

For Finishing Edges; 3 in. Wide, 1 in. Turned Edge with a radius of ¼ in., Ends Rounded; Varnished Wood Handle 4¼x1⅝ in.; Heavy Steel Handle Brace; Highly Polished Surface.

SOLID BRONZE

	Per Dozen
No. 0135—5 in. Long; Weight 3¾ Lbs. per Dozen	$10 00
No. 0136—6 in. Long; Weight 4¼ Lbs. per Dozen	10 00
No. 0137—7 in. Long; Weight 4½ Lbs. per Dozen	10 00

STEEL

	Per Dozen
No. 135—5 in. Long; Weight 4¼ Lbs. per Dozen	$8 00
No. 136—6 in. Long; Weight 4¾ Lbs. per Dozen	8 00
No. 137—7 in. Long; Weight 5 Lbs. per Dozen	8 00

Half Dozen in a Box

ADJUSTABLE JOINTERS; ZENITH PATTERN

Hardened Tool Steel Cutter Blade in Center; strengthened by four Ribs on back; Polished Wood Handle 5¼ in. Long, Brass Ferrule; Handle is correctly hung.

	Per Dozen
No. 123—Solid Bronze; Width 2 in., Length 3 in., Cuts ⅜ in. Deep; Weight 21 Lbs. per Dozen	$30 00
No. 033—Polished Iron; Width 2½ in., Length 3 in.; Cuts ⅜ in. Deep; Weight 18 Lbs. per Dozen	25 00

One in a Box

MARSWELLS CEMENT SIDEWALK TOOLS

LINE ROLLERS

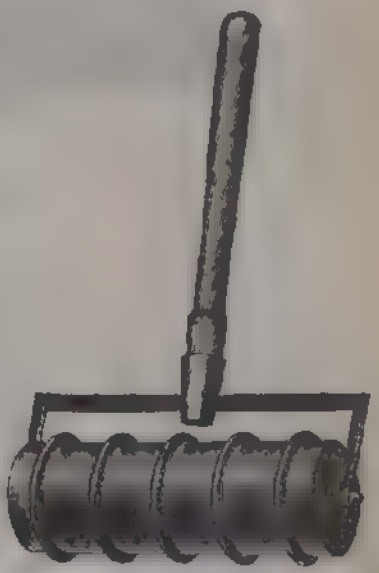
For Finishing Driveways, leaving Surface with the appearance of Bush Hammered Stone; 10 in. Wide, 4 in. Diam., 6 Grooves to the inch, 14 in. Hardwood Handle.

	Each
No. 020—Solid Bronze; Weight 11 Lbs. per Dozen	$12 00
No. 20—Iron, Nickel Plated; Weight 10 Lbs. per Dozen	4.00

INDENTATION ROLLERS

For Imprinting Surfaces of Walks, etc., making a Fine Finish and, by its Holes, preventing them from becoming Slippery; 10 in. Wide, 3¾ in. Diam.; Teeth ¼ in. Deep, ¾ in. Apart; 14 in. Hardwood Handle.

	Each
No. 015—Solid Bronze; Weight 10 Lbs. Each	$12 00
No. 15—Iron, Nickel Plated; Weight 9 Lbs. Each	4.00



DRIVEWAY ROLLERS

For Finishing Driveways; 10 in. Wide, 4 in. Diam.; makes ¼ in. Grooves, 2 in. apart; 14 in. Hardwood Handle.

	Each
No. 016—Solid Bronze; Weight 11 Lbs. Each	$12.00
No. 16—Iron, Nickel Plated; Weight 10 Lbs. Each	4.00

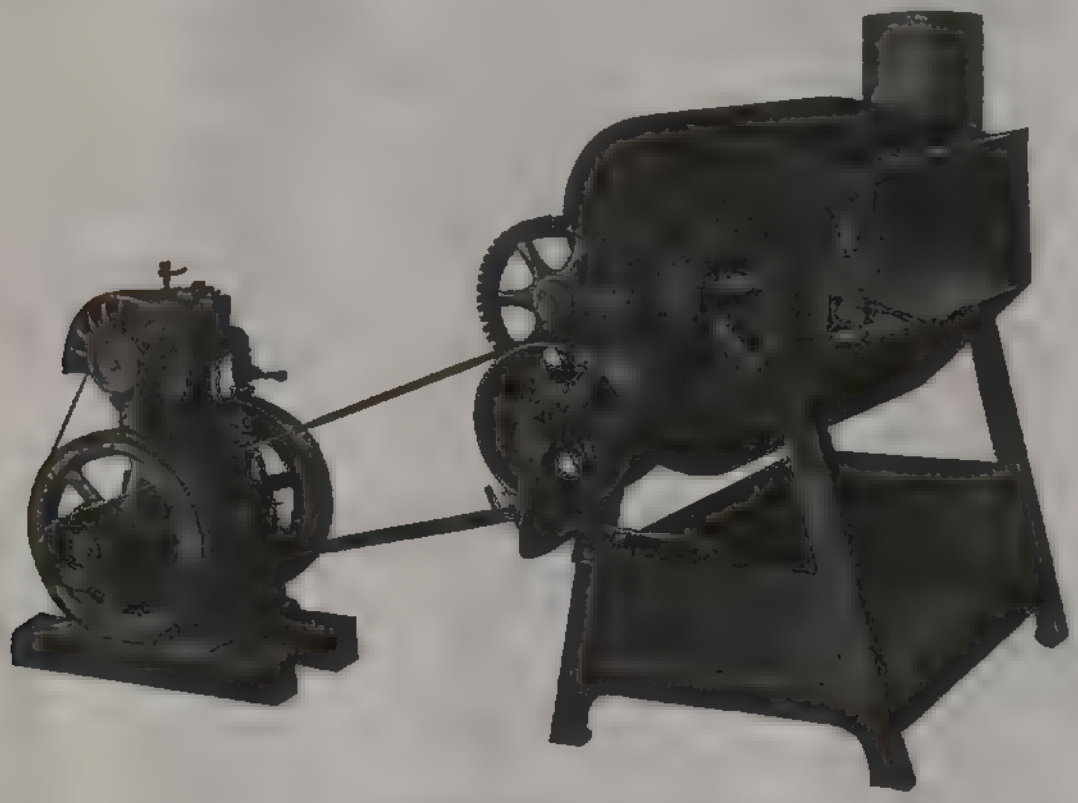
One in a Package

CONCRETE MACHINERY

For Direct Shipment only from Near-by Wisconsin Factory

CONCRETE MIXING MACHINES

We can furnish Concrete Mixing Machines in any Style, Size and Description made. Rotary Drum Mixers (cone shape) can be furnished for the contracting trade in sizes from 7 to 40 cubic feet and with Steam, Gasoline or Electric Power, or without Power. Continuous Mixers can be furnished for those preferring Continuous Type. Special Sidewalk Mixing Machines can be supplied for small crews in Light, Medium, Powerful and Compact Types. Special Catalog sent on request.



STATIONARY POWER MIXING MACHINE

This machine is practical, thorough and rapid, and will be found unexcelled for small block plants, Tile Works and Brick Plants. It is made entirely of iron and steel. The drum is triangular shape, having two cast iron drum heads and cold rolled high carbon sheet steel shell. The drum heads are held together by four heavy rods which are located outside the drum, leaving the inside entirely free from any inside rigging. The door is hinged to the shell and swings inward. It is controlled by a lever allowing same to be opened while machine is running. The wetting device consists of a galvanized tank of about 5 gallons capacity and connected to this is a perforated pipe which runs through a hole in the journal and extends through the center of the drum. A half inch globe valve connects the tank and the perforated pipe and the flow of water can be regulated as desired. The holes in this perforated pipe can be made large or small according to the nature of work machine is intended for, but unless otherwise specified they are made for ordinary work. For extreme wet work large holes are ordinarily used, which wets the material in three or four revolutions of the drum. The gear wheels work smoothly and a loose and tight pulley is provided so that the power can be thrown off and the mixer stopped in any desired position for loading. These machines are furnished without engine or with either 3 H. P. Air Cooled or 2½ H. P. Water Cooled Engine. The engines are guaranteed to be free from any defects in material or workmanship, and to develop the full rated horse power.

SPECIFICATIONS OF MIXER

Length of Drum, In.	36
Circumference, In.	84
Diameter, In.	28
Capacity, Cubic Feet	6
Height Over-all, Feet	4 1/6
Length Over-all, Feet	4 3/4
Speed, Revolutions per Minute	15

	Each
No. 21—Power Mixer without Engine. Weight 800 Lbs. Each	$102 00
No. 21A—Power Mixer with 2½ H. P. Horizontal Water Cooled Engine. Weight 1000 Lbs. Each	244 50
No. 21B—Power Mixer with 3 H. P. Air Cooled Engine. Weight 1000 Lbs. Each	234.00

Screening

Double Crimped Locomotive Spark Netting

Iron or Steel For Coal and Wood-Burning Locomotives

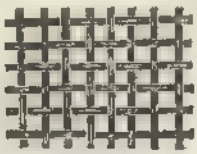


Fig. 1002

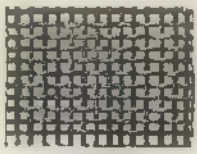


Fig. 1003

Mesh	No. Wire	Per Sq. Foot	Mesh	No. Wire	Per Sq. Foot	Mesh	No. Wire	Per Sq. Foot
2 x2	8	$0 60	3 x3	12	$0 36	5 x 5	14	$0 48
2 x2	9	48	3 x3	13	32	5 x 5	15	38
2 x2	10	38	3½x3½	11	.50	6 x 6	14	60
2½x2½	9	60	3½x3½	12	48	6 x 6	15	48
2½x2½	10	48	3½x3½	13	.38	6 x 6	16	38
2½x2½	11	38	4 x4	11	.73	8 x 8	18	38
3 x3	10	60	4 x4	12	.60	10 x 9	19	48
3 x3	11	48	4 x4	13	.48	10 x10	20	38

In addition to the above, the following specifications are used for coal burning locomotives

Mesh	No. Wire	Per Sq. Foot	Mesh	No. Wire	Per Sq. Foot	Mesh	No. Wire	Per Sq. Foot
2½x3	12	$.....	2 x4	12	$ ..	2 x5	12½	$
3 x3½	12	.....	2 x4	13	.....	4 x4	12½	
3 x4	12		3 x4	13				

Any mesh or size of wire not included in the above list will be made to order

Discount

Rolls contain 100 linear feet. All meshes measure from center to center of wire
In ordering, state mesh, size of wire, width and length wanted

Wire Window Screen Cloth

No length less than 100 feet shall be considered a roll

Plain Green, drab or black, by the roll. Per square foot ..... $.
Figured green, drab or black, by the roll Per square foot
Landscape, by the roll Per square foot

Discount

We furnish to order and will quote prices on application steel and iron wire cloths of all the various grades known to the trade, from light hardware grade to the heaviest screen cloths for coal mines
Tinned, galvanized and plated cloths to order

Galvanized Telegraph and Telephone Wires

Iron and steel of the highest electrical qualities Prices will be quoted upon application

Hard Copper Telegraph Wire, Insulated and Bare Copper Wire

For electrical purposes Prices will be quoted on application

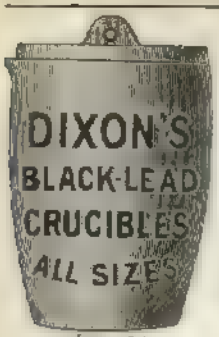


Fig. 184

Crucibles

Dixon's Crucibles

Sizes and Prices

Nos	Holding Capacity Melting Metals Gal.	Qt.	Lb.	Height Outside Inches	Diameter at the Top Outside Inches	Diameter at the Bilge Outside Inches	Diameter at the Bottom Outside Inches
0				2	1 1/2	1 5/8	1 1/4
00				2 1/4	1 7/8	1 7/8	1 3/8
000				2 1/2	1 7/8	2 1/8	1 3/8
0000				3	2 3/8	2 1/2	1 3/8
1				3 1/2	2 3/8	3	2 1/8
2				4 1/4	2 3/4	3 5/8	2 1/8
3				4 3/4	4 1/8	4 1/8	3
4				5 1/2	4 3/8	4 1/2	3 1/8
5			1	6	4 1/4	4 1/4	3 1/2
6				6 1/2	5 1/4	5 1/8	3 3/4
7				6 3/4	5 3/8	5 1/2	4
8			1 1/2	7 1/4	5 3/4	5 3/4	4 1/8
9			2 1/4	7 3/4	6	6 1/4	4 1/2
10			1	8	6	6 1/2	4 3/4
12		2		8	6 1/4	6 3/4	5
14		2	1	8 1/2	6 5/8	7 1/4	5 1/8
16		2	1	8 3/4	7	7 1/2	5 1/2
18		3	1	9 1/4	7 3/8	8	5 3/4
20	1			10 1/4	7 3/4	8 3/4	6
25	1		1	10 1/2	8	8 3/8	6 1/4
30	1	1	1	11	8 5/8	9 1/2	6 1/2
35	1	2	1	11 3/8	9	9 3/4	7
40	2			12 3/8	9 1/2	10 1/4	7 1/4
45	2	1		13	9 3/4	10 1/2	7 3/8
50	2	3		13 1/2	10 1/8	11 1/2	7 7/8
60	3			14	10 3/8	11 3/8	8
70	3	1		14 1/2	10 7/8	12	8 1/4
80	3	2	1	15 1/8	11 1/8	12 1/2	8 5/8
90	4			15 3/4	11 1/2	12 3/4	9
100	4	2	1	16	11 7/8	13 1/8	9 1/8
125	4	3	1	16 3/8	12	13 3/4	9
150	6	3		18 1/8	13 1/4	14 3/4	10 1/8
175	7	3		19 1/2	14 1/4	15 3/4	10 3/4
200	9	3	1	20 1/2	15	16	11 1/4
225	10	1	1	20 3/4	15 1/4	16 3/4	11 3/4
250	10	3		20 1/2	15 1/4	17	11 3/4
275	11	3		22 1/4	15	16 5/8	12 1/2
300	12	2		22	16 1/4	17 1/2	12 1/2

Crucibles for File Tempering

60	17 1/4	9	9 1/4	8
70	20 1/4	9	9 1/4	8
80	22 1/8	9	9 1/4	8
100	24 1/2	9	9 1/4	8

Price of Covers

No.	Price Each	No.	Price Each	No	Price Each	No	Price Each
1		5		8		12	
2		6		9		14	
3		7		10		16	
4						18 and upwards	

CASTING MINNOWS

DOWAGIAC

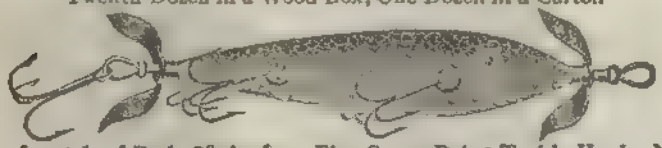
Bodies Made of Select Cedar, Covered with Nine Coats of Waterproof Enamel; Nickel Plated Hooks; The Patented Method of Attaching the Hooks enables the Instruction to Each Hook to be Broken Through Accident); The Hook Sockets Always hold the Hooks Outwardly so that the Points are Always presented to the Fish; Hooks Cannot Become Entangled or Mar the Enamel on the Body; Large Glass Eyes; Correctly Weighted so They will Always Float in an Upright Position; No Swivels Necessary as Bodies will not Revolve; Spinners Revolve in Opposite Direction.

Length of Body 2⅝ inches; Three Spear Point Treble Hooks No. 2; Weight Approximately 1¼ dwts.; Two Nickel Plated Brass Spinners; Sinks Readily.

	Per Dozen
No. 100 —Fancy Back	$12 80
No. 101 —Rainbow	12 80
No. 102 —White	12 80
No. 104 —Red	12 80
No. 109A —Yellow Perch	12 80
No. 109B —Frog Back; Green with Black Spots	12.80

Weight per Dozen 2¾ lbs.

Twelfth Dozen in a Wood Box; One Dozen in a Carton

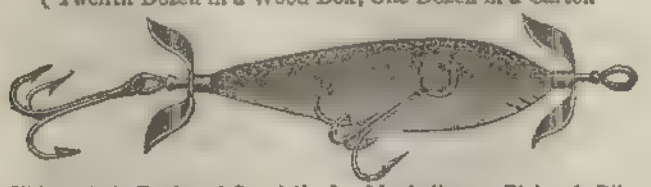


Length of Body 3⅝ inches; Five Spear Point Treble Hooks No 1; Weight Approximately 18 dwts.; Two Nickel Plated Brass Spinners; Sinks Slowly.

	Per Dozen
No. 150 —Fancy Back	$14.40
No. 151 —Rainbow	14.40
No. 152 —White	14 40
No. 154 —Red	14.40
No. 157 —Fancy Sienna Yellow	14.40
No. 159 —Silver White	14.40
No. 159A—Yellow Perch	14.40
No. 159B—Frog Back; Green with Black Spots	14.40

Weight per Dozen 3 lbs.

Twelfth Dozen in a Wood Box; One Dozen in a Carton



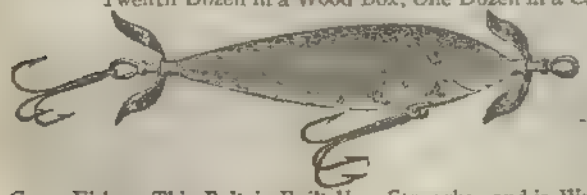
This Bait is Designed Specially for Muskallonge, Pickerel, Pike and the Large Varieties of Fresh Water Game Fish; Is also Specially Adapted to Casting or Trolling for the Large Bass of Florida and Other Southern States.

Length of Body 3½ inches; Three Hollow Point Treble Hooks No. 2/0; Weight Approximately 18 dwts.; Two Nickel Plated Brass Spinners; Sinks Slowly.

	Per Dozen
No. 175—Fancy Back	$14.40
No. 176—Rainbow	14 40
No. 177—Blended White	14 40

Weight per Dozen ¾ lbs.

Twelfth Dozen in a Wood Box; One Dozen in a Carton



The Special Hook Presentment on this Bait Makes it a Very Sure Killer of all Species of Sagaface Bitiuo Game Fishes; This Bait is Built Very Strongly, and is Well Adapted to the Large Bass of Florida and Other Southern States.

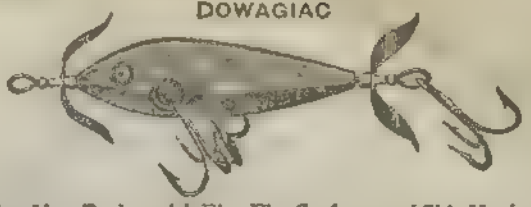
Length of Body 4 inches; No. 4 0 Bright Treble Belly Hook and No. 1 0 Bright Treble Tail Hook; Weight Approximately 18 dwts.; Two Nickel Plated Brass Spinners; Floats on Surface.

	Per Dozen
No. 300 —Fancy Back, White Belly	$14 40
No. 301 —Rainbow	14 40
No. 302 —Blended White, Slate Colored Back	14 40
No. 300S—Special; White Body with Green and Red Spotted Effect; Three Bright Treble Belly Hooks; Otherwise same as above numbers	$14.40

Weight per Dozen 3 lbs.

Twelfth Dozen in a Wooden Box; One Dozen in a Carton

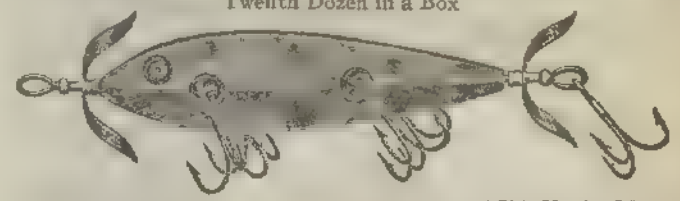
DOWAGIAC



This is a New Design with Five Flat Surfaces and Side Hooks Mounted on a Ridge with Body of Minnow Sloping away from the Hooks, leaving them in the Clearest Possible Position for Efficiency; Two Spinners; Three Extra Strong Dowagiac Design Nickel Plated Treble Hooks; Length of Body 3 inches; Weight per Dozen 2¼ lbs.

	Per Dozen
No. 0—White Body, Red and Green Decorations	$12 80
No. 01—Yellow Body, Red, Green and Black Decorations	12 80
No. 02—Red Body with Black Decorations	12 80

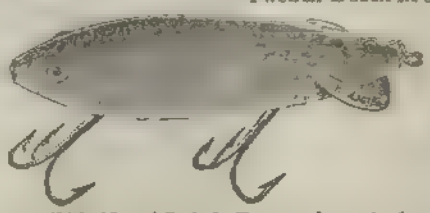
Twelfth Dozen in a Box



This is a New Design with Five Flat Surfaces and Side Hooks, Mounted in a Ridge with Body of Minnow Sloping away from the Hooks, leaving them in the Clearest Possible Position for Efficiency; Two Spinners; Five Extra Strong Dowagiac Design Nickel Plated Treble Hooks; Length of Body 3½ inches; Weight per Dozen 2¾ lbs.

	Per Dozen
No. 00—White Body, Red and Green Decorations	$14 40
No. 001—Yellow Body, Red, Green and Black Decorations	14 40
No. 002—Red Body with Black Decorations	14 40

Twelfth Dozen in a Box



CRAB WIGGLER

With Treble Hooks.

Equipped with Two No. 1/0 Hollow Point Treble Hooks; Length of Body 4 inches; Weight approximately 1½ ozs.

This Novel Bait is Drawn through the water Tail First and the movement so closely Resembles that of the Live Crab that it is Irresistible to Game Fish. A Record Breaker on Bass, and Equally Deadly on Muscallonge, Pike, Pickerel and other Fresh Water Fish. Floats when not in Motion, Dives under water when Retrieved, the Movement being a pronounced Wiggle, Simulating the Movement of a Crab when Moving Backwards away from Danger.

	Per Dozen
No. 1800 —Fancy Green Back	$14 40
No. 1800S—White Body, Red and Green Spotted	14 40
No. 1801 —Rain Bow	14 40
No. 1809A —Yellow Perch	14 40
No. 1809B —Imitation Frog	14.40
No. 1809C—Imitation Crab	14.40
No. 1802 —White Spots with Red Body	14 40
No. 1805 —Red Body, Red and Green Spots and Green Back	14.40

Twelfth Dozen in a Box

DOWAGIAC CRAB WIGGLER

With Double Hooks

Equipped with Two No. 3/0 Hollow Point Double Hooks; Length of Body 3 in.; Weight approximately 1 oz.

This Novel Bait is Drawn through the water, Tail First and the movement so closely Resembles that of the Live Crab that it is Irresistible to Game Fish. A Record Breaker on Bass, and Equally Deadly on Muscallonge, Pike, Pickerel and other Fresh Water Fish. Floats when not in Motion, Dives under Water when Retrieved, the Movement being a pronounced Wiggle, Simulating the Movement of a Crab when Moving Backwards away from Danger.

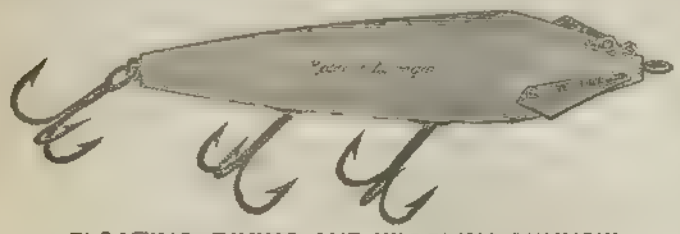
	Per Dozen
No. 1900 —Fancy Green Back	$14 40
No. 1900S—White Body, Red and Green Spotted	14 40
No. 1901 —Rainbow	14 40
No. 1902 —White Body, Red Head	14 40
No. 1905 —Yellow Body, Red and Green Spots and Green Back	14 40
No. 1909A—Yellow Perch	14 40
No. 1909B—Imitation Frog	14 40
No. 1909C —Imitation Crab	14.40

Twelfth Dozen in a Box.

CASTING MINNOWS

DOWAGIAC

Bodies Made of Select Cedar, Chemically Treated to Prevent the Absorption of Water; Covered with Nine Coats of Waterproof Enamel, which cannot be Worn off; Nickel Plated Hooks; the Patented Method of Attaching the Hooks enables the Fisherman to Detach them Instantly (if Broken Through Accident), by Giving the Screw Hooks a few Turns to the Left; the Hook Sockets Always hold the Hooks Outwardly so that the Points are Always Presented to the Fish; Hooks Cannot Become Entangled or Mar the Enamel on the Body; Large Glass Eyes; Correctly Weighted so They will Always Float in an Upright Position; No Swivels Necessary as Bodies will not Revolve; Spinners Revolve in Opposite Direction.



FLOATING, DIVING AND WIGGLING MINNOW

When Cast Out upon the Water these Baits are Buoyant enough to Float Themselves and the weight of the Line, and the instant They are Retrieved will Dive under the water to a successful Depth for an under water Bait, describing a Wabbling or Swinging movement as it is reeled in.

The instant Retrieving is stopped, instead of sinking to the bottom, where the Bait may become caught upon weeds, snags, etc., it will rise to the surface.

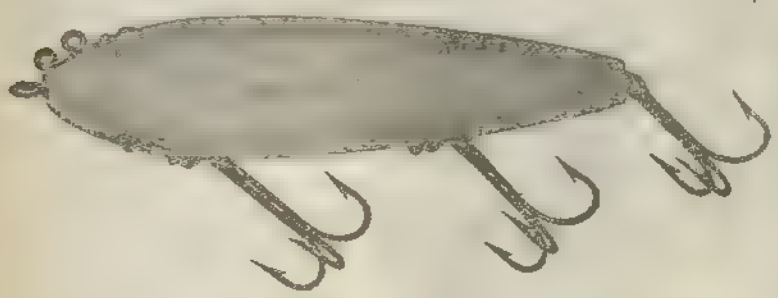
The newly invented Variable position for fastening the Lines enables the angler to Control the Swimming movement, making it greater or less as seems to be most attractive to the Fish.

The forward fastening should be used when reeling against the swift current of a River; whereas in still waters the lines should be attached to either of the upper fastenings, the forward or Central one giving a nicely balanced attractive movement; If a more violent movement is desired or if the Bait is trolling at a very slow speed, the third or last point of fastening should be used.

Length of Body 4½ inches; Three No. 1/0 Bright Spear Point Treble Hooks; Weight each 1¼ ozs.

	Per Dozen
No. 1600—Fancy Matted Green Back, white Belly	**$13 60**
No. 1600S—Special; White Body with Red and Green Spotted Effect	**$13 60**
No. 1602—White Body with Red Head	**13 60**
No. 1605—Yellow Body with Trout Spots	**13.60**
No. 1609B—Frog Coloration	**13 60**

Twelfth Dozen in a Box



"DOWAGIAC" WIGGLER

The Only Original Wiggler Casting Bait Made; Floats when at Rest and Dives and Describes Most Alluring Wiggling Movement When in Action, Running near the Surface, Closely Resembling the Movements of a Live Fish; Equipped with the Newly Invented Variable Position for Fastening Lines as Described above on Number 1600 Series.

Length of Body 4 inches; Equipped with Three No. 1/0 Bright Spear Point Treble Hooks; Weight each 15 pwts.

	Per Dozen
No. 1700S—White Body with Red and Green Spotted Effect	**$13 60**
No. 1702—White Body with Red Head	**13 60**
No. 1705—Yellow Body with Red and Green Spots and Green Back	**13 60**
No. 1709B—Frog Colors	**13 60**

Twelfth Dozen in a Box

DOWAGIAC

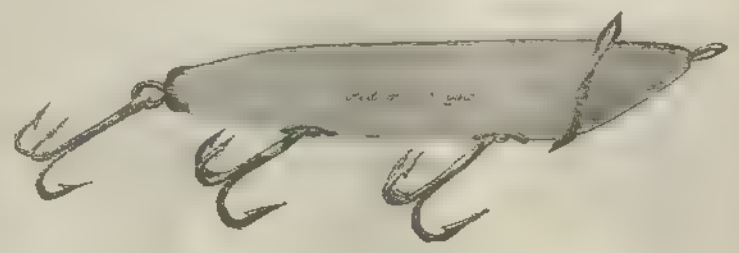
Bodies Made of Select Cedar, Chemically Treated to Prevent the Absorption of Water; Covered with Nine Coats of Waterproof Enamel, which Cannot be Worn off; Nickel Plated Hooks; the Patented Method of Attaching the Hooks Enables the Fisherman to Detach Them Instantly (if Broken Through Accident), by Giving the Screw Hooks a few Turns to the Left; the Hook Sockets Always Hold the Hooks Outwardly so that the Points are Always Presented to the Fish; Hooks Cannot Become Entangled or Mar the Enamel on the Body; Large Glass Eyes; Correctly Weighted so They Will Always Float in an Upright Position; No Swivels Necessary as Bodies will not Revolve; Spinners Revolve in Opposite Direction.

SPECIAL EXPERT

The Original Dowagiac Surface Casting or Skittering Bait without Revolving Parts; Semi-Weedless with Two Trebles on Bottom and One at Tail; Length of Body 5 inches; Weight per Dozen 2⅜ lbs.

	Per Dozen
No. 200SW—White Body with Red Collar and Blue Snout	**$14 40**
No. 200SF—Frog Back; Green with Black Spots	**14.40**
No. 200SS—White Body with Green and Red Spotted Effect	**14.40**

Twelfth Dozen in a Box



DOWAGIAC LUMINOUS

This is a Surface Casting or Skittering Bait for Catching Black Bass and other Game Fish which are well known Night Feeders; It is Coated with a Special Preparation for Absorbing either Daylight or Bright Artificial Light, Radiating same when Exposed at Night; Length of Body 4¾ inches, Two Treble Hooks on Body and one at Rear; Weight 14 pwts.

	Per Dozen	
No. 200SL—Luminous Body, Red Head	**$16.00**	**12.00**

Twelfth Dozen in a Box

SEND YOUR MAIL ORDER TO US. WHY? BECAUSE WE HAVE THE GOODS AND CAN FILL IT AS YOU WOULD LIKE TO HAVE IT FILLED. WE PRICE IT RIGHT, TOO. LET US DEMONSTRATE TO YOU WHAT "GOOD SERVICE" REALLY MEANS.

SASH ROLLERS

Cast Iron, Japanned

Width of Plate...	⅝	¾	⅞	1	1¼
Length of Plate...	1⅛	1⅝	2	2⅛	2¾
Diam of wheel, in.	⅝	⅝	¾	⅞	1
No. 594—Per gross	$3 33	3 89	5.26	6.80	9.32

Half Gross in a Box

Cast Brass

No. 594¼—Plate ⅝ x 1⅛ in., wheel ⅝ inch .... Per gross $20.00

Sixth Gross in a Box, with Screws

Cast Iron, Japanned, Extra Heavy Plate

Width of Plate, in.....	1	1¼	1½
Length of Plate.....	3	3¼	3⅞
Diameter of Wheel, in.....	1¼	1¾	1¾
No. 593—Per gross.....	$8.75	12 64	20 61

Twelfth Gross in a Box

Brass

Diam of Plate, in..... ...	⅛	1¼
Width of Wheel, in	⅜	⅝
No. 106—Per gross.....	$9 50	11.00

Half Gross in a Box

DUMB WAITER PULLEYS

Cast Iron, Extra Heavy

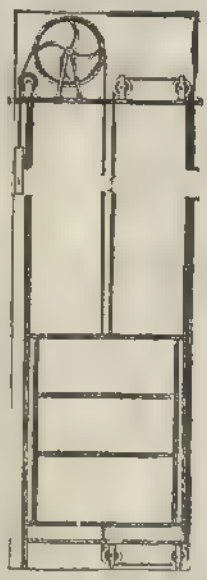
Square end, plain front, steel pin, round groove, polished wheel.

No. 500—3 in.....Per set of 4 $1 00

Two Sets in a Package

DUMB WAITER FIXTURES

CUYAHOGA



Adapted to all places where 30 lbs. or less are to be carried. Each machine packed in a box containing all pulleys and standards necessary to complete the outfit. Any ordinary weight will answer to counterbalance the waiter box

Measurements—Large wheel, 12 in.; standard, 4 in.; small wheel, 3 in.

Cuyahoga Fixtures only, capacity 30 pounds ... . Per set $9 00

PARAGON

Constructed so that it will hold the car stationary at any point without the use of a brake or rope clamp, works easily and with perfect safety, the moment the operator ceases pulling the hand rope, either raising or lowering, the automatic clutch will hold car in its place. These are sheave machines and are arranged for the weight to come at the right. If it is desired to have the weight at the left, place the hoist wheel at the back end of the shaft. Each machine packed in a box, containing pulleys and shaft.

No. P3 Paragon Fixtures only, single face, capacity 150 lbs., well 32 x 32 inches, hoist wheel 30 inch diameter .....Per set $37.00

No. P2 Paragon Fixtures only, single face, capacity 100 lbs., well 27 x 27 inches, hoist wheel 20 inch diameter .....Per set 30 00

No. P1 Paragon Fixtures only, single face, capacity 50 lbs., well 20 x 20 inches, hoist wheel 16 inch diameter..... Per set 25 00

DUMB WAITER FIXTURES

NEW YORK

Fixtures one size only, suitable for all well-holes under 24 inches square, not larger. Counter weight should weigh about the same as the combined weight of car and two wheels E E not less. Always use flat counter weights which can be run in guides or box as desired. For stringing use ⅛ in. pliable cotton rope, and for safety rope ⅝ in.

New York Fixtures only, capacity 50 to 75 pounds..... .....Per set $22 50

One Set in a Case

PADLOCKS

Made from a solid block of extruded brass metal, bored out to receive mechanism Heavy Wrought Spring Shackle, 4 Wards Two Nickel Plated polished flat steel Keys to each Lock, all different in a dozen, 34 changes possible.

No. 2876—¾x¾ in. all Brass extruded Metal .....Per dozen $12 00
One Dozen in a Box

Made from a solid block of extruded brass metal, bored out to receive mechan sm Heavy wrought Spring Shackle, two Nickel Plated polished flat steel Keys to each lock, all different in a dozen 36 changes possible.

No. 2869—1 x 1⅛ inch, all Brass, extruded Metal.....Per dozen $20 00
Twelfth Dozen in a Box

Ball Bearing , Pin Tumbler Cylinder. Made from a solid block of extruded brass metal, bored out to receive mechanism. Heavy Wrought Spring Shackle. Two German Silver Keys to each Lock, no two Locks alike

No. 2879—1x1 5/16 in all Brass, Extruded Metal .....Per dozen $23 50
Twelfth Dozen in a Box

Ball Bearing, Pin Tumbler Cylinder made from a solid block of extruded brass metal, bored out to receive mechanism. Heavy Wrought Spring Shackle, Two German Silver Gold Plated Bow Keys to each Lock, no two Locks alike

No. 2880—1⅝ x 1 5/16 in., All Brass, extruded Metal .....Per dozen $25 00

No. 2881—1½ x 1⅛ in., All Brass, extruded Metal.....Per dozen 33.00
Twelfth Dozen in a Box

Ball Bearing, Pin Tumbler Cylinder made from a solid block of extruded brass metal, bored out to receive mechanism. Heavy Wrought Spring Shackle, Two German Silver Gold Plated Bow Keys to each Lock, no two Locks alike.

No. 2882—1¾ x 1½ in., All Brass Per dozen $39 50

No. 2883—2 x 1½ in., All Brass, extruded Metal .....Per dozen 48.50

No. 2884—2⅛ x 1⅝ in., All Brass, extruded Metal.....Per dozen 52.00
Twelfth Dozen in a Box

Padlock same as Nos 2880 and 2882, with 9 inches of Brass Chain.

No. 2880C—1⅝ x 1⅛ in., all Brass, extruded Metal, with 9 in. of Brass Chain .....Per dozen $27.50

No. 2882C—1¾ x 1½ in., all Brass, extruded Metal, with 9 in. of Brass Chain .....Per dozen $42 50
Twelfth Dozen in a Box

Ball Bearing, Pin Tumbler Cylinder made from a solid block of extruded brass metal, bored out to receive mechanism. Has extra long shackle 1¾ inch in clear. Two German Silver Gold Plated Bow Keys to each Lock. No two Locks alike.

No. 2880ALS—1⅝ x 1⅛ in., Steel Shackle .....Per dozen $25 00
Twelfth Dozen in a Box

Ball Bearing, Pin Tumbler Cylinder made from a solid block of extruded brass metal, bored out to receive mechanism. Self Locking. Heavy Wrought Shackle, Two German Silver Keys to each Lock. No two Locks alike

No. 2887—1⅛x1⅛ in. All Brass, extruded Metal.....Per dozen $21.25
Twelfth Dozen in a Box

Cast bronze case, finely finished, spring shackle, three secure levers, two coined German silver keys to each lock, 48 changes.

No. 2970—1 in., Bronze Shackle..Doz. $24 00
No. 2971—1¼ in., Bronze Shackle..Doz. 25 40
No. 2972—1½ in., Bronze Shackle..Doz. 28.50
Half Dozen in a Box

Cast bronze case, finely finished, spring shackle, four secure levers, two coined German silver keys to each lock, made regularly with 72 changes.

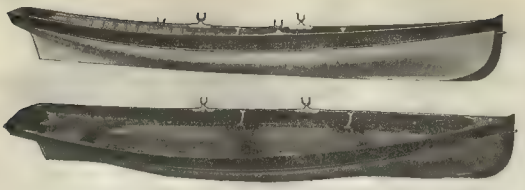
No. 2973—1¾ in., Bronze Shackle..Doz $32.00
Half Dozen in a Box

Cast bronze case, finely finished, spring shackle, four secure levers, two coined German silver keys to each lock, 144 changes.

No. 2974—2 in., Bronze Shackle..Doz. $36.00
No. 2975—2¼ in., Bronze Shackle..Doz. 43.00
Half Dozen in a Box

ROW BOATS.

LADY OF THE LAKE.



Square Stern.

Beautiful in outline and finish. Thoroughly well made.

This is the handsomest and finest boat that skilled labor can produce. It is a smooth built boat, being made up of narrow strips 1⅜ inches wide by ½ inch thick with half-round joints (see cut). This makes a strong and durable boat. The strips are nailed together with galvanized nails. The half-round fender on outside of boat is not nailed on as usually done by other builders, but is a solid piece of oak built in when planking is put on and therefore cannot come off, as is often the case where it is put on after boat is finished.

After the boat is planked it is planed and sanded to a smooth finish. Then it is clamped and drawn together with chains every thirty inches, under several thousand pounds pressure. Then the ribs are fastened in place, which holds the planking firm. This is what keeps our boats from leaking.

Grade A—Keel stem stern, gunwales and ribs of selected white oak, planking selected cedar. The false bottom is fastened down with buttons and can be taken out, which makes it very convenient in cleaning or repairing the boat. Finished inside and out with three coats best grade spar varnish. Removable false bottom, adjustable foot braces, two pair oar locks, one pair taper handle spruce oars, copper tipped, leathered and varnished.

Grade B—Same material as Grade A, but painted inside and outside, except seats, seat fenders, gunwales and shear streak, including half-round fenders, which are finished in natural wood with three coats best grade spar varnish. Removable false bottom, adjustable foot braces, two pair oar locks, one pair 7½ foot taper handle spruce oars, copper tipped, leathered and varnished.

There are so many calls for a row boat suitable for the detachable row boat motors that we are building all the Lady of the Lake style boats so they may be used for this purpose. The stern is reinforced and quite wide so as to stand the strain and extra weight of motor.

	Each.
Grade A46—Length 15½ feet, beam 46 inches, depth 16 inches; weight, 170 pounds	$140.00
Grade B46—Length 15½ feet, beam 46 inches, depth 15 inches; weight, 170 pounds	125.00
Rudder, Extra	$6.00
Lazy Back, Extra	4.70

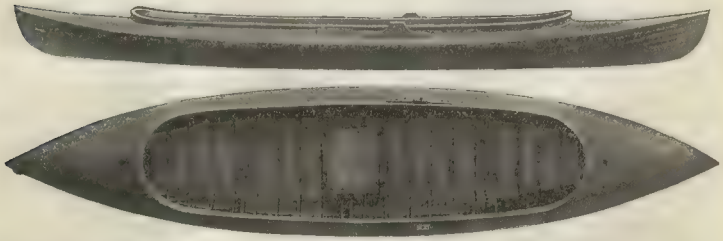
F. O. B. Alexandria, Minn.

Note—Row boats take four times first class freight.

HUNTING BOATS.

STILL HUNTER.

DUNPHY.



Interior View.

Bottom and planking is made from selected cedar or white oak. Thickness of bottom ¾ inch, planking ⅜ inch, which consists of four strakes on each side. Ribs are ⅞-inch x ⅞-inch spaced 6-inch center, securely fastened through bottom and planking with clout nails.

In connection with the bent ribs, each boat is provided with three sawed oak frames ⅞-inch x 1-inch. Decks and covering boards are of ⅜-inch selected cedar. Coaming is of selected oak extending 3 inches above the decks. Each boat is provided with a galvanized anchor tube through each deck.

Fittings consist of one pair of 6-foot oars, one push paddle, oar locks and one seat.

Nos.	15SH	46SH
Length, feet	12	14
Beam, inches	34	34
Length cockpit, feet	6½	8½
Approx. weight each, lbs.	75	85
Each	$68.00	75.00

F. O. B. Eau Claire, Wis.

IMPROVED STILL HUNTER.

The Improved Still Hunter is the most practical and convenient boat for marsh shooting ever produced, and at the same time is perfectly safe for use upon open water

The bottom of this boat is slightly rounding, the floor being carried well fore and aft, the sides are brought to the gunwales in a sharp curve. This gives us the lightest draught boat possible, drawing as it does when fairly loaded only two inches of water.

Specifications—Beam, 36 inches; cockpit, 6 ft. long, 22 inches wide and 10 inches deep. Planking basswood, put on in wide pieces, joint meeting on longitudinal strips of elm, into which elm ribs are mortised. Seams being sealed with water-proof tape. Combing, floor strips and deck beams, ash. Deck, cedar, covered with 8 oz. canvas. One removable seat. One paddle, any length, stave length wanted. Entire boat finished dry grass color, with one coat wood preserving, water resisting oil, and two coats best lead paint.

	Each
*No. 12SH—Length, 11¾ feet; weight each, 70 lbs.	$62.00
*No. 14SH—Length, 13½ feet; weight each, 80 lbs.	70.00

EXTRAS—Tubes passing through deck and bottom of boat through which poles can be passed, for firm anchorage. If wanted, $3.60 extra. Oars and oarlocks, fitted, if wanted, $6.50 extra.

THOMPSON.

For all around use on lakes, rivers and marshes where many varying conditions are encountered the Thompson Duck boat cannot be excelled.

Light Weight—The method of construction enables us to make this boat very light and still have a boat that is strong enough to stand the hardest kind of use.

For Marsh Use—The bottom is perfectly flat which enables the boat to go in very shallow water and the boat being very light it is easy to push it through heavy rice or weeds.

Rough Water—A very important point about this boat and the point in which it differs from any other hunting boat on the market today, is that the bottom at the ends are V shaped. This not only makes it a very easy running boat under all conditions, but the V shaped bottom at the ends, split the waves and enables it to ride a very rough sea with perfect safety, and to glide smoothly and noiselessly through a choppy sea.

Specifications The bottom, sides and decks are of cedar. The frame is made of elm. Although the boat is very light, it is very strong and durable and with ordinary care will last a life time.

One paddle and removable seat included with each boat.

	Each
*No. T14—Length, 14 feet; beam, 32 inches, weight each, 60 lbs	$70.00
*No. T12—Length, 12 feet; beam, 30 inches; weight each, 50 lbs.	62.00
Oars and oarlocks fitted to boat	$6.50 extra
Anchor tubes	3.60 extra

*For factory shipment only.

MULLINS, GET THERE.

STAMPED SHEET STEEL.

it i/t% F. O. B. Salem, O.

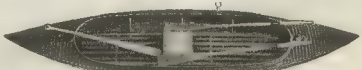
One of the most popular duck boats ever placed on the market, fitted front and back with air chambers, strong and safe. Painted dead grass color

Each.

"Get There"—Galvanized steel, securely braced by steel ribs; length 14 ft., beam 36 inches, height to top of deck, 11 ins,. to top of comb, 14 ins.; cockpit, 9 ft. x 30 in.; net weight, 100 lbs.; complete with seat, bottom slat, short or long paddle and one pair oars. $55.00

Shipping weight, 130 lbs.

BUSTLE.



This boat is similar to the "Get There" except wider at the beam and fitted with side air chambers, which adds to its buoyancy.

Each.

"Bustle"—Galvanized steel; width, 46 ins.; net weight, 120 lbs.; otherwise same as "Get There," with the same equipment; shipping weight, 150 lbs. $70.00

BILGE PUMPS.

WURKEZE.

For pumping water from row boats, launches, etc. Will throw more water than any other pump of its size. Small and compact, can be stored in a locker.

Each.

No. W1—Pump of all brass; heavy detachable rubber hose; height, 17 ins.; diameter of pump, 1⅛ ins.; length of hose, 5 feet; capacity per minute, 12 gallons. $7.00

No. W2—Same as No. W1, but larger; diameter, 1½ inches. 9.00

Weight each, 2½ lbs.

DUPLEX FIRE TRUCK IN USE AT HARRISBURG, PA

AMERICAN-LA FRANCE PUMPING CHEMICAL AND HOSE CAR, WITH UNITED STATES TIRES, OSWEGO, N. Y.

FLEET OF GRAMM BERNSTEIN TRUCKS COMPOSING THE FIRE DEPARTMENT OF LIMA, OHIO

BLASTING POWDER.

Great care and attention have been given to the manufacture of this powder, and it is as perfect as skill can produce or money can buy. We carry it in stock in five different sizes, which are illustrated in the following cuts. Packed 25 lbs. in a metal keg.

	Each.
CC, C, F, FF, FFF,—Kegs, 25 pounds each, F. O. B. Minnesota Transfer	$4.60
CC, C, F, FF, FFF—Kegs, 25 pounds each, F. O. B. Bismarck, N. D	5.00

DYNAMITE.

DUPONT. AETNA.

For mining, well boring, railroad construction, stump blasting, etc.

The cartridges are 8x1¼ inches and weigh 8 ounces; 25 and 50 lbs. in a case.

Per 100 Pounds.

No. 3—30 per cent nitoro-glycerine. For coal mining, etc. $

No. 2—40 per cent nitro-glycerine. For medium hard rock stumps, etc.

No. 1½—50 per cent nitro-glycerine. For hard rock.

No. 1—60 per cent nitro-glycerine. For very hard rock, iron and copper ore.

No. 75—75 per cent nitro-glycerine

We do not sell less than a box of 25 pounds.

RAILROAD POWDER.

JUDSON.

Per 100 Pounds.

Judson Railroad Powder—A grade between dynamite and blasting powder, especially adopted to railroad work, excavating, etc. $

12½ lbs. in a sack; 4 sacks in a box

STUMPING POWDER

DUPONT AND AETNA.

LOW FREEZING.

A low freezing powder especially adapted for stump blasting. Absolutely guaranteed by the powder companies for the work for which it is intended—blasting stumps. Comes packed in a one style package only, 50 pound cases each containing five 10 lb. cartons, one size of cartridge 1¼x8 inches. Best results can only be obtained with this powder by using a No. 6 cap.

Per 100 Pounds

Stumping Powder $

50 pounds in a case.

FARM POWDER.

DUPONT AND AETNA.

LOW FREEZING.

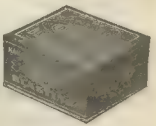
A low strength powder made especially for farm work. Recommended for subsoiling, tree planting, earth excavating, etc.

Per 100 Pounds.

Farm Powder $

50 pounds in a case.

BLASTING OR DYNAMITE CAPS.



Blasting Caps are small copper cylinders closed at one end containing a sensitive and highly explosive compound. They must be handled carefully and kept away from heat and sparks. They should never be stored or carried with dynamite.

	Per 1,000
No. 6—Blasting Caps, Dupont or Aetna Lion Brand	$36.75
5,000 lots	35.20
10,000 lots	34.15
20,000 lots	33.15

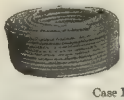
	Per 1,000
No. 8—Blasting Caps, Dupont or Aetna Lion Brand	$57.65
5,000 lots	55.90
10,000 lots	54.05
20,000 lots	52.45

100 in a tin case; 1,000 in a case.

Blasting Caps are always shipped separate from dynamite.

NOTE—Dynamite, Stumping, Farm Powder and Blasting Caps can be shipped by freight only.

FUSE.

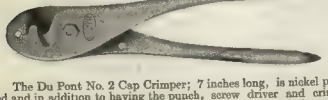


	Case Lots	Per 1000 feet
Cotton		$10.00
Anchor or Crescent, white finish, for use in wet ground		12.75
Single Tape, waterproof		10.70
Double Tape, waterproof		13.40
Triple Tape, waterproof		15.30
Gutta Percha, waterproof		14.30

Cotton fuse, 12,000; others 6,000 ft, in a case.

Average weight per case, 130 pounds.

CAP CRIMPERS AND FUSE CUTTERS.



The Du Pont No. 2 Cap Crimper; 7 inches long, is nickel plated and in addition to having the punch, screw driver and crimp jaws, is provided with an efficient fuse cutter protected by two over-lapping projections which prevent the fuse cutting feature from being used accidentally.

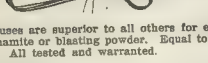
Each

No. 2—Cap Crimper and Fuse Cutter $2.00

In bulk.

ELECTRIC BLASTING CAPS.

COPPER WIRES.



These fuses are superior to all others for exploding any make of dynamite or blasting powder. Equal to double quintuple force. All tested and warranted.

Length	Per 100	Length	Per 100
4 foot wires	$9.30	12 foot wires	$14.60
6 foot wires	10.60	16 foot wires	17.25
8 foot wires	11.95	20 foot wires	19.90
10 foot wires	13.25		

Up to and inc. 16 foot, 50 in a box; 20 foot, 25 in a box.

ELECTRIC SQUIBS.

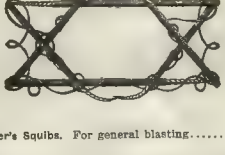
COPPER WIRES.

Contain no loose powder which may become shaken out in handling. Similar to Electric Blasting Caps (fuses) except that the charge is a powder composition that does not detonate but merely shoots out a strong flame. The shell is paper and is open at one end. They are used for firing charges of blasting powder electrically.

Length, feet	4	6	8	10	12
Per 100	$5.45	6 69	7.92	9.16	10.40

MINERS SQUIBS.

POWELLS.

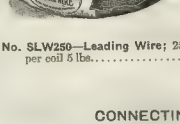


Per 1000

No. 2—Miner's Squibs. For general blasting $3.30

100 in a box, 10,000 in a case; weight per case, 33 lbs.

LEADING WIRE.



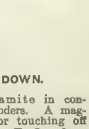
At least two hundred and fifty feet double of leading wire should be provided, so that the blaster will be out of danger when he fires the shot. If the blast is a large one, it will probably be necessary for the blaster to be 300, or even 500, feet away.

Per Coil

No. SLW250—Leading Wire; 250 feet in a coil; weight per coil 5 lbs $5.30

CONNECTING WIRE.

Connecting wire is used to connect electric fuse wires in adjoining bore holes when the wires are not long enough to reach each other.



Per Pound

No. CW1—Connecting Wire; 1 pound on a spool, about 250 feet; a pure copper insulated wire $1.10

BLASTING MACHINE.

RELIABLE, PUSH DOWN.

Used for exploding dynamite in connection with electrical exploders. A magnetic-electric instrument for touching off a series of holes at one time. To fire, draw the handle up until it stops, then push down quickly with full force.

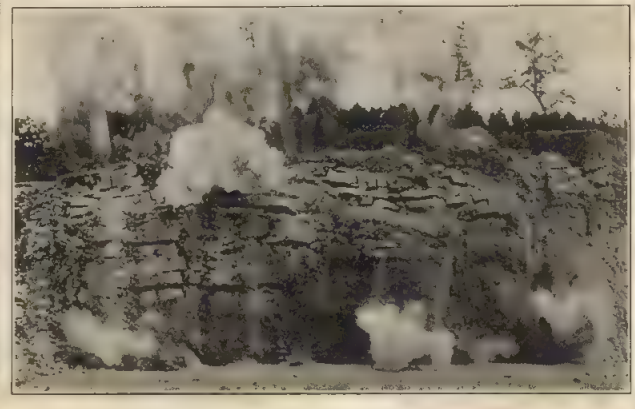
For railroad construction, quarrying and mining work, submarine blasting, etc. Hardwood, varnished; corners strongly screwed; leather strap handle.

Each.

No. 2—1 to 10 Holes, weight each, 15 lbs $35.70

No. 3—1 to 30 Holes, weight each, 30 lbs $51.00

DU PONT AMERICAN INDUSTRIES



The Builder of Nations—Dynamite

Mail this Coupon marking X before subject that interests you

- ☐ Industrial Dynamites
- ☐ Blasting Powder
- ☐ Farm Explosives
- ☐ Blasting Supplies
- ☐ Trapshooting
- ☐ Py-ra-lin Toilet Goods
- ☐ Challenge Collars
- ☐ Sanitary Wall Finish
- ☐ Town & Country Paint
- ☐ Liquid Light for Mills
- ☐ Rayntite Top Material
- ☐ Motor Fabrikoid
- ☐ Metal Lacquers
- ☐ Commercial Acids
- ☐ Pigment Bases
- ☐ Tar Distillates
- ☐ Dyes and Bases

Name . . . . . .

Address . . . . . .

City. . . . . .

State . . . . . .

A titantic laborer—wresting from the bosom of Mother Earth the stone, the ore, the coal, that are essential to modern life—tunneling under rivers and through mountains for the railroads that span the continent, and cleaving hemispheres for the canal that links the oceans.

In this class of constructive national forces the palm of leadership goes to

DU PONT

Red Cross Dynamite

the world's leading brand of industrial explosives Powerful, quick, low-freezing, insensitive to ordinary shocks of transportation and handling Safer than gasoline or gunpowder. It represents a distinct achievement of American scientific research and manufacturing skill. Many million of pounds are used annually by civil, railroads and mining engineers, contractors, road builders, quarrymen and farmers

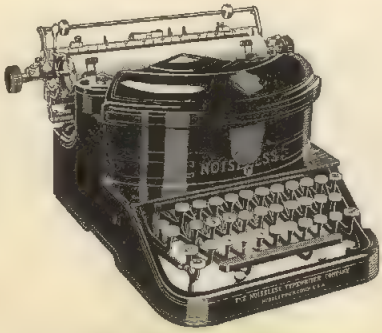
It is not a fearsome Frankenstein but a tractable, powerful servant. Learn its uses. Fill in and check the coupon opposite. "Industrial Explosives" or "Farm Explosives" and send for full information

E. I. Du Pont De Nemours & Co.

Established 1802

Wilmington, Delaware

DU PONT



The Noiseless Typewriter

Rests its claim upon the fact that concentration of thought is essential to success in business.

Typewriter Noise—sharp, metallic and rasping distracts attention, upsets the nerves and impairs health.

The Noiseless Typewriter saves and earns for its owner every moment of the business day because it aids clear, quick thinking and because it is a foe to nervous indigestion.

Send for literature and an impressive list of users; or better still, ask for a demonstration and test at your own office.

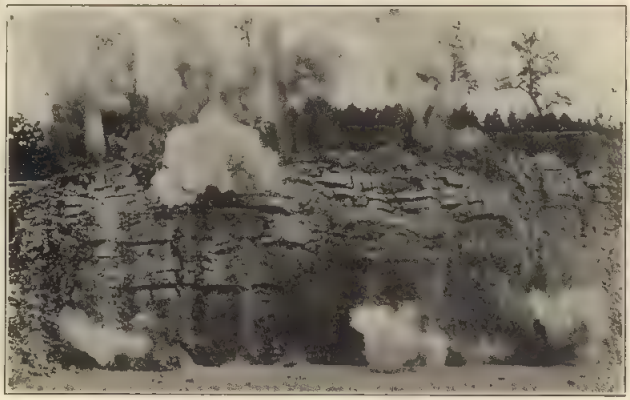
The Noiseless Typewriter Company

253 BROADWAY, NEW YORK

Other Offices in

CHICAGO
PHILADELPHIA
BOSTON
DETROIT
CLEVELAND
SAN FRANCISCO
LOS ANGELES
and MONTREAL

DU PONT AMERICAN INDUSTRIES



The Builder of Nations—Dynamite

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- ___ Industrial Dynamites
- ___ Blasting Powder
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- ___ Py - ra - lin Toilet Goods
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- ___ Liquid Light for Mills
- ___ Rayntite Top Material
- ___ Motor Fabrikoid
- ___ Metal Lacquers
- ___ Commercial Acids
- ___ Pigment Bases
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- ___ Dyes and Bases

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In this class of constructive national forces the palm of leadership goes to

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Red Cross Dynamite

the world's leading brand of industrial explosives. Powerful, quick, low-freezing, insensitive to ordinary shocks of transportation and handling. Safer than gasoline or gunpowder. It represents a distinct achievement of American scientific research and manufacturing skill. Many million of pounds are used annually by civil, railroads and mining engineers, contractors, road builders, quarrymen and farmers.

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E. I. Du Pont De Nemours & Co.

Established 1802

Wilmington, Delaware

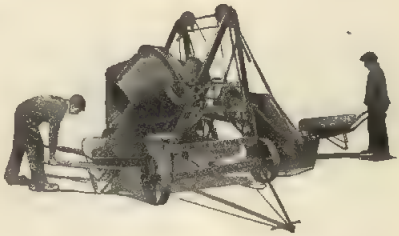
DU PONT

Jaeger Concrete Mixer

Used by all progressive municipalities and contractors.

Is your town progressive?

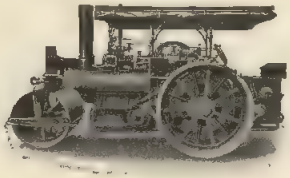
Write for Data



THE JAEGER MACHINE CO.

215 West Rich Street :: Columbus, Ohio

QUALITY MACHINERY



BUFFALO PITTS ROLLERS

Are purchased by discriminating buyers because of the many years of satisfactory service which they will render, the low repair costs and their general reliability.

ASK THOSE WHO OWN THEM

All sizes All Types Write for catalogue

Built only by

THE BUFFALO-SPRINGFIELD ROLLER COMPANY
SPRINGFIELD, OHIO

Collieries Supply and Equipment Co.
Culvert Pipe and Road Machinery
Contractors, Road Makers and Municipal Supplies
Sectional Cast Iron Culvert Pipe Corrugated Iron Culvert Pipe Scarifiers Road Signs Road Scrapers Road Drags Rock Crushers Road Rollers Write for Prices
14 North Fifth Street Philadelphia Pa.

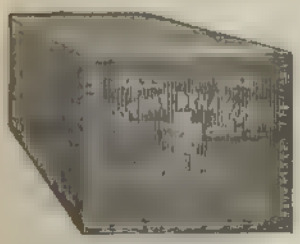
SOUTHERN CLAY MFG. CO.
James Building
CHATTANOOGA, TENN.

Annual Capacity:
Thirty Million Paving Blocks
Manufacturers of
WIRE-CUT-LUG BLOCKS
DUNN PATENT

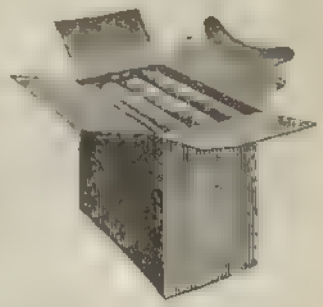
Lowest Market Prices Upon Request

DYNAMITE

DU PONT



Put up in Strong Paper Cartridges which, Previous to Filling, are Dipped in Melted Paraffine. The Smaller Sizes, Having a Diameter of 1¼ inches and under, are Packed in Ten-pound Boxes. Five of These are Enclosed in a Strong Wood Case, Making a Convenient Fifty-pound Package. Larger Sizes—1¼ inches and over—are Packed Loose. Fifty Pounds to the Box



DUPONT RED CROSS DYNAMITE

We Recommend Red Cross Dynamite as the Ideal All-The-Year-Round Explosive. Best Known—Safer to Handle. Does not Require Thawing Except in Extremely Cold Weather.

Note—Use Nothing Weaker than a No. 6 Detonator with Red Cross Dynamite.

Low Freezing Ammonia Extra		Per Pound	
✣ No. LG2B	33%	$....	For Moderately Hard Rock, Copper, Lead and Other Ores, Stumps and Ice.
✣ No. LG2	40	....	
✣ No. LG2XX	—50%	....	For Hard Rock, Ores and Iron.
✣ No. LG1	—60%	....	For Extremely Hard Rock, Ores, Breaking Iron and Steel, and Submarine Blasting.

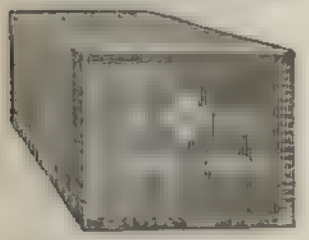
DUPONT RED CROSS FARM POWDER.

This Red Cross Powder is a High Grade Explosive Intended for Use in Sub-Soiling, Dry-Ditching or Stump Blasting where the Soil is Dense, which affords Good Resistance.

Put Up in Strong Paper Cartridges, which, Previous to Filling, are Dipped in Melted Paraffine. Packed Loose, Fifty Pounds to the Box

Per Pound

✣ **Dupont Red Cross Farm Powder**..... $....



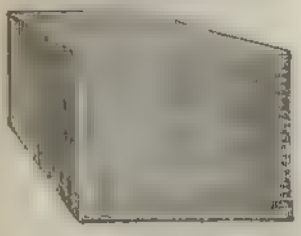
DUPONT RED CROSS STUMPING POWDER

This Red Cross Stumping Powder is Intended for Ditcher Blasting or Stump Blasting in Sandy Soil, Requiring a Quicker Powder than Farm Powder.

Put Up in Strong Paper Cartridges, which, Previous to Filling, are Dipped in Melted Paraffine. Packed Loose, Fifty Pounds to the Box.

Per Pound

✣ **Dupont Red Cross Stumping Powder**..... $....



DUPONT STRAIGHT NITRO GLYCERINE

This Straight Nitro-Glycerine Dynamite is Only Recommended where a Very Quick Explosive is Desired.

Nitro-Glycerine		Per Pound	
✣ No. G3X	30%	$....	For Moderately Hard Rock, Copper, Lead and Other Ores; Stumps and Ice
✣ No. G2B	33 "		
✣ No. G2	40 "		For Hard Rock, Stumps and Boulders.
✣ No. G2XX	50 "		For Extremely Hard Rock, Ores, Breaking Iron and Steel, and Submarine Blasting.
✣ No. G1	—60%		

DUPONT GELATINE DYNAMITE

Particularly Adapted for Use in Wet Work and in Holes with Free Vertical Rise, Owing to Its Water Resisting Qualities and Freedom from Objectionable Fumes.

Gelatin		Per Pound	
✣ No. DG2B	—35%	$....	For Extremely Hard Rock, Ores, Breaking Iron and Steel; Driving Tunnels, Sinking Wells and Shafts, and Submarine Blasting.
✣ No. DG2	40%		
✣ No. DG2XX	—50%	....	
✣ No. DG1	—60%		
✣ No. DG1A	—75%		

DUPONT LOW FREEZING DYNAMITE R. R. P.

This is a Low Grade High Explosive with Ranks Between Blasting Powder and Dynamite. Very Valuable for Blasting in Open Work that is Comparatively Dry, Especially in Loose Slate Rock.

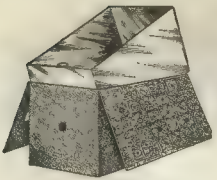
Not Intended to Explode this Dynamite Always Use a Cartridge of 40% Nitro Glycerine Dynamite as a Primer.

Packed in Strong Paraffined Paper Bags Holding 12½ Lbs. each, Four Bags to a Fifty Pound Case. Per Pound

✣ **Dupont Dynamite, R. R. P.** $....

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct From Magazine Nearest to Destination

CAMERA.



Open, showing tray.

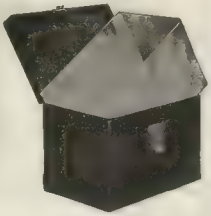
This box is made in exact imitation of a kodak or camera case. It is covered with art linen, closely resembling pebbled leather, with removable tin box; easily cleaned and always looks well.

Per Dozen

No. 160—Camera Lunch Box, size of box, 7x5x5 ins... **$11.00**

Weight per doz., 12 lbs.

Half dozen in a pkg.



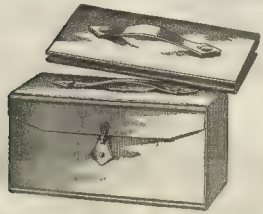
Made to fill the demand for a well-made, respectable looking case; covered with imitation leather and contains a removable tin lining, allowing the same to be removed and cleaned. Equipped with a good leather handle, a special catch, which is secure and four polished nickel metal corners.

Per Dozen

No. 200—Size of box open, 7½x5x5 inches; weight per dozen, 15 lbs..... **$15.00**

Half dozen in a package.

KODAK.



This box is covered with a water-proof finished material, thoroughly riveted with a cowhide one piece collapsible handle. When folded box will fit pocket.

Per Dozen

No. 2H—Kodak Folding Lunch Box; size 4½x4½x9 ins.. **$5.00**

One dozen in a carton, K. D.

EGYPTIAN.

Adapted to the needs of harvest and field hands, lumbermen, prospectors, surveyors, railroad men, boatmen, automobilists and everyone who goes to the woods, desert or on the water.

Made of imported specially constructed flax duck, specially adapted for this purpose, enough moisture oozing through the pores for the air to come in contact with and keep the contents cool.

Round bottom corners, seams inside, metal nozzles.

CLOSED TOP.

Per Dozen

No. 1-CT—Water Bag; sewn top; capacity, 1 gallon; size, 10x11½ inches; weight per doz., 6 lbs... **$21.80**

No. 2-CT—Water Bag; sewn top capacity, 2 gallons; size, 12¾x15½ inches; weight per doz., 9½ lbs.. **31.20**

In bulk.

OPEN TOP.

Is equipped with a metal clamp slide at top which is removable, whereby the interior of the bag may be cleaned and all sediment removed, always keeping the contents clean and fresh

Per Dozen

No. 2-OT—Water Bag; sanitary or open top; capacity, 2 gallons; size, 15¾x12¾ inches; weight per dozen, 12 lbs..... **$33.60**

No. 5-OT—Water Bag; sanitary or open top; capacity, 5 gallons; size, 17½x32½ inches; weight per dozen, 20 lbs..... **61.20**

In bulk.

AUTO STYLE.

Has open top making it easy to fill and keep clean. A closing device not impaired by shrinking or swelling of fabric. Full standard size and capacity.

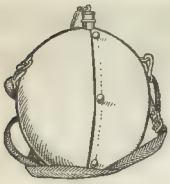
Per Dozen

No. AS-2—Water Bag; open top; capacity, 2 gallons; size, 17x12 inches; weight per doz., 9½ lbs **$33.60**

In bulk.

CANTEENS.

CELLO BOY SCOUT.



The Cello Canteen is regulated to Boy Scout requirements with one side concaved so that it will not "bang" against the hip. Made of high grade tin plate, all parts heavily tinned; strongly constructed throughout and built to give the maximum of service.

Per Dozen

No. 100 — Cello Canteens; complete with heavy adjustable sling strap and removable khaki cover with snap buttons; capacity, 1 quart; wgt. each, 1 lb. **$21.60**

U. S.

Made of high quality charcoal tin, seamed and soldered. The mouthpiece is fitted with a cork which is fastened with a brass chain. The canteen is covered with a very heavy quality of olive green duck with an interlining of heavy felt. The detachable strap is made of heavy duck to match the cover and has a snap hook on each end to fasten to the canteen. Each canteen is air tested.

Per Dozen

No. 1—U. S. Canteen; capacity, 3 pints..... **$41.00**
No. 2—U. S. Canteen; capacity, 5 pints..... **48.00**

Weights per dozen, No. 1 12 lbs.; No. 2 24 lbs.

In bulk.

GOVERNMENT.

Made of galvanized steel, seamed and soldered and has a zinc mouthpiece. It is covered with heavy, dead grass colored duck and has an interlining of heavy blanket. The strap is made of heavy duck to match the cover. Each canteen is air tested.

Per Dozen

No. 3—Government Canteen; capacity, 3 pints; weight per dozen, 3 lbs.... **$24.00**

In bulk.

CAMP GRIDS.

ELECTRIC WELDED.

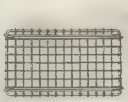
Per Dozen

No. 485—Camp Grid; 13¾ inches long, 8⅝ inches wide; has 12 inch legs of No. 6 wire; cross-bars are of No. 10 wire; frame ½ inch No. 12 flat steel; finished in black; weight per dozen, 5 lbs..... **$6.50**

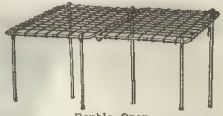
One dozen in a carton.

CAMP BROILERS.

SACKETT'S.



Single Closed.



Double Open.

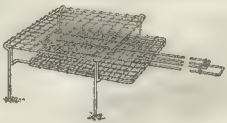
Light, strong and compact. Thoroughly reliable and satisfactory. The standards are made of No. 3 and the mesh of No. 13 wire, tinned.

Per Dozen.

No. 375—Single, 9x14 inches, weight per dozen, 24½ lbs.. **$10.00**
No. 800—Double, 18x14 inches, weight per dozen, 48 lbs... **15.00**

In bulk.

SACKETTS GRATE-BROILER.



A grate for the coffee pot and skillet and a broiler for steaks or game, giving double capacity for cooking a meal and keeping it hot until ready to serve.

Per Dozen

No. 1214—Camp Grate Broiler; size, 12x14 inches; weight per dozen, 48 lbs **$37.50**

In bulk.

MILLERS.

A Folding camp stove and boiler. When open has a grate surface 14x20 inches, strongly constructed of wrought iron. Takes up about the same space as a fish rod; can be carried in a suit case.

Each

No. MKK—Camp Broiler; shipping weight each, 5¾ lbs.. **$2.50**

One in a neat canvas bag.

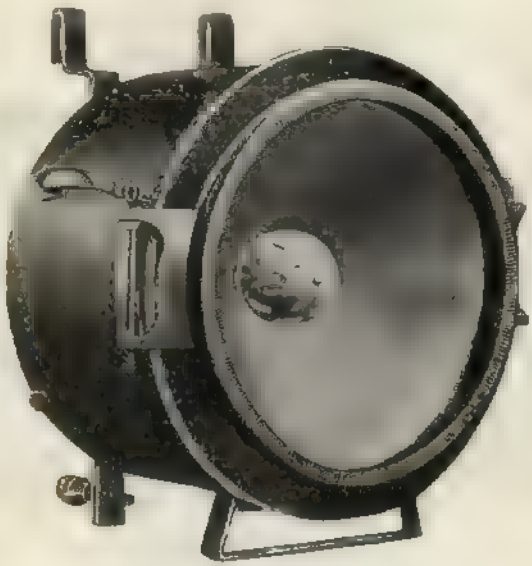
Improved Electric Incandescent Headlights for Interurban Electric Railway Service

No. 1638

12-Inch

Suspended From Dash or May Be Installed on Canopy of Car

Accommodates a range of railway type concentrated filament Mazda lamps, G18½ to G30, inclusive



Electric cars operating modern high-speed interurban service will appreciate the necessity of a dependable headlight. It presents the ideal design, which may be relied upon to give "Golden Ray" parabolic glass or copper silver plated reflector. A headlight of the utmost efficiency is available with renewals limited to the incandescent lamp only.

Its construction permits of absolute focusing of standard railway type concentrated filament, Mazda lamps, G18½ to G30, inclusive.

The case is neat, compact and of light weight consistent with strength. It is provided with detachable weather proof door securely fastened. Electrical contact with car circuit is established by means of plug and cord arrangement.

For complete specifications, see page 191.

For shipping weights and export measurements, see page 191.

Quotations cover the headlight as shown, including dash straps and plug sockets for each end – but does not include the incandescent lamp.

For prices, see page 191.

Improved Electric Incandescent Headlights For Interurban Electric Railway Service

No. 1644

16-Inch

Designed to be mounted on canopy of car
Accommodates a range of railway concentrated filament Mazda lamps G18 ½ G30 inclusive

In remote sections it is sometimes necessary to provide a maximum of light and in such cases as has been demonstrated the selection of the larger type headlight as illustrated has been attended with perfect satisfaction The interior carrying a 16 inch copper silver plated reflector may be entirely withdrawn free of cumbersome wires. Electrical connection with car circuit is established automatically by merely sliding the interior in place

View of interior—is provided with means for properly focusing the lamp

For complete specifications, see page 191.

For shipping weights and export measurements, see page 192

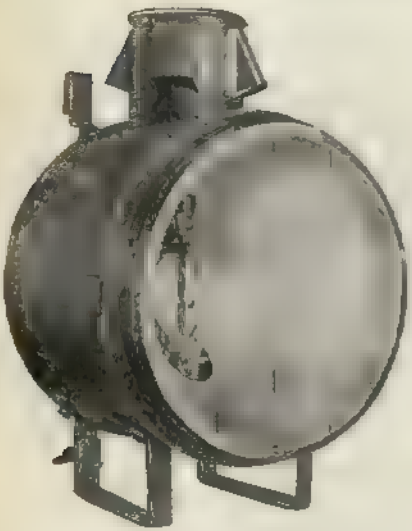
For prices, see page 193.

Quotations do not include the incandescent lamp

Arc Headlights for Interurban Electric Railway Service

Mosher No. 1477

Made in 10, 12 and 14-inch sizes

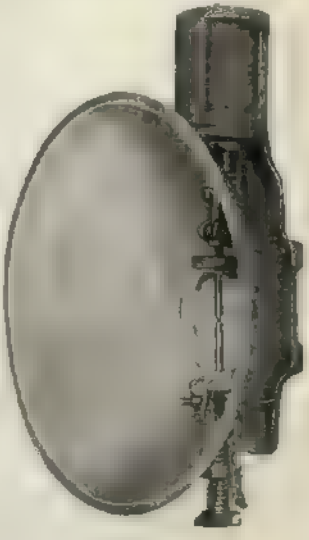


Non-metallic circuit, direct current, straight arc headlight for outside of dash

Plug and cord connections to car circuit

When ordering, give maximum and minimum line voltage

The "Mosher" Arc Headlight is so well known and established that little comment is necessary, as there are thousands in use in all parts of the country, as well as abroad It is the cheapest headlight produced in point of maintenance and is low in price—simple in operation, of neat appearance and being of light weight is easily handled and requires but little attention



A wire screen dimmer may be furnished at a slight additional cost.

The 10 and 12-inch sizes may be supplied with the Osgood Deflector Lens

For complete specifications, see page 191
For shipping weights and export measurements see page 192
Unless otherwise ordered one resistance, one plug connector, two plug sockets and dash brackets for both ends of car will be furnished with each headlight
For prices, see page 193

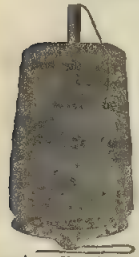
TWINE BOXES AND HOLDERS

FOR TUBES

Per Dozen

No. OHIO—1x¼ inch Steel Arch 6¾x6½ inches; Painted Maroon Color with Wooden Roller for Holding Twine. Twine passes through Hole in Top of Arch; Holes in Feet to Attach to Counter; Weight per Dozen 4½ lbs. **$3.30**

Half Dozen in a Package



This Fixture is Easy to Thread and Will Not Allow Twine to Tangle.

FOR CONES AND TUBES

Per Dozen

No. 805—5 inch Cast Base; Full Height 9 ins.; Full Nickel Plated Polished Finish; Twine is Threaded down Trough Center of Tube and Delivered through a Hole in the Foot at Base. Packed Knocked Down One in a Box; Wt. per Box, 10 lbs. **$7.20**

FOR BALLS

Per Dozen

No. 6—Japanned; Size 4½x3½ in.; Cam Fastening; Wire Ring Swivel in Top; Weight per Dozen 12 lbs. . **$6 60**

Half Dozen in a Box

FOR CONES OR TUBES

Per Dozen

No. 207—Black Japanned Cast Iron; Height 11 in.; Length of Base 6¼ in.; Weight per Dozen 16 lbs.. **$6 60**

Loose

FOR BALLS Per Dozen

No. 57—Black Japanned Cast Iron; Size Inside 4¾x4 in.; Diameter of Base 6½ in.; Weight per Dozen 33 lbs. **$12.00**

Twelfth Dozen in a Package

ROPE REELS

Varnished Hardwood Frame; Japanned Malleable Iron Castings; Mounted on Casters, no Recoiling Necessary as Full Coils is Placed on Reel.

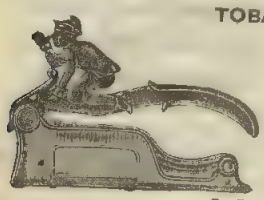
Each

No. 3—For 3 Coils; Height 58 inches, Width 28 inches, Depth 30 inches; Weight Each about 75 lbs. **$32 00**

No. 5—For 5 Coils; Height 91 inches, Width 28 inches, Depth 30 inches; Weight Each about 100 lbs..... **39.50**

Loose

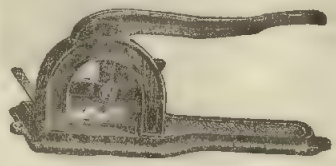
TOBACCO CUTTERS



Per Dozen

No. 2—Japanned Iron; Length 10⅝ inches; Width 3 inches; Height 7⅝ inches; Tempered Steel Knife; Takes Plug 3½ inches Wide; Weight per Dozen 57 lbs **$17.50**

Twelfth Dozen in a Package



STANDARD

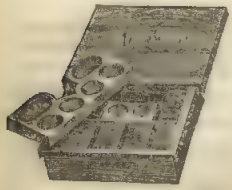
With 6 inch Measuring Gauge

Per Dozen

No. 10—Black Japanned Cast Iron Frame, Red Blue and Gold Decorated; Length 16½ inches; Width 3⅞ inches; Height 7 inches, Tempered Steel Knife, Sliding Cut; Takes Plug 3½ inches Wide; Weight per Dozen 80 lbs..... **$33 00**

Twelfth Dozen in a Package

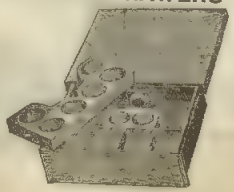
MONEY DRAWERS



Per Dozen

No. 2—19 inches Wide; Depth 16½ inches, Height 4¾ inches; Oak Front, Varnished, Gained Corners; Improved Lock, 32 Changes; Diameter Specie Bowls 3⅝ inches; Size Bill Spaces 3½x8 inches, Weight per Dozen 160 lbs. **$60 00**

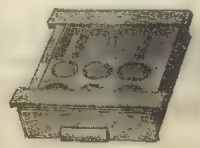
Half Dozen in a Crate



Per Dozen

No. 8—18 inches Wide; Depth 17½ inches; Height 4¾ inches; Hardwood Front; Corners Strongly Secured; Improved Lock, 33 Changes; Diameter Specie Bowls 3⅝ inches; Size Bill Spaces 3¼x8¼ in.; Wt. per Doz. 125 lbs. **$54 00**

Half Dozen in a Crate



Per Dozen

No. 5—18½ inches Wide; Depth 18 inches; Height 4¾ inches; Oak Front, Golden Oak Finish; Improved Lock, 33 Changes; Diameter Specie Bowls 2⅞ inches, Size Bill Spaces 2 ¾x7 inches; Weight per Dozen 125 lbs. **$44 00**

Half Dozen in a Crate

THE ELGIN $25.00 WATCH

STREAMLINE MODEL

12-size, 17-jewel movement, complete in 20-year guaranteed, double cap case. New streamline design in pendant and bow. Narrow bezel showing clearly the beautiful silvered metal dial. An exceptionally wide seconds bit gives real value to the second hand. Cap delicately engraved.

Movement adjusted to heat, cold and isochronism. Fitted with double-roller escapement, steel escape wheel and micrometric regulator. Comes complete in presentation box.

No. 8703 Price, Complete Watch $47.25

THE WALTHAM EQUITY WATCH

Prices quoted are for the complete watch

16 SIZE
JOINTED OPEN FACE

No. 8704 15-Jewel, Silver, Plain Bassine....$28 95
No. 8705 7-Jewel, Silver, Plain Bassine.... 21.85

16 SIZE
SCREW BACK AND SCREW BEZEL OPEN FACE

No. 8706 15-Jewel, Gold Filled, Plain Bassine $30 20
No. 8707 15-Jewel, Nickel, Plain Bassine . 19 70
No. 8708 7-Jewel, Gold Filled, Plain Bassine 23 10
No. 8709 7-Jewel, Nickel, Plain Bassine . . .12 65

16 SIZE
GUN METAL OPEN FACE

No. 8710 15-Jewel Movement.....$22.70
No. 8711 7-Jewel Movement..... 15.60

Equity Filled Cases are 20 Year Quality

12 SIZE
SCREW BACK AND SCREW BEZEL OPEN FACE

No. 8712 7-Jewel, Nickel, Plain Bassine....$14.60
No. 8713 7-Jewel, Gun Metal, Plain Bassine. 17.15

DUEBER-HAMPDEN ABOVE THEM ALL

THE AVIATOR

Truly a Gentlemen's Watch Retails for $25.00

17 Jewels

Adjusted Movement, with Enamel, Silver or Gilded (yellow or green) Dials

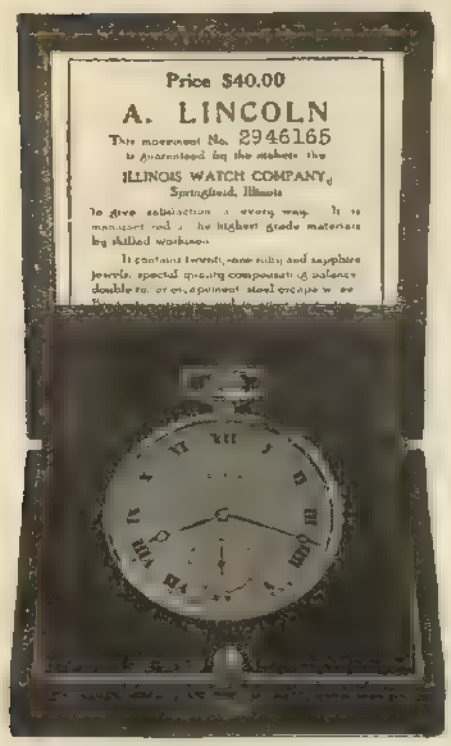
14K Gold Filled Case (yellow or green finish)

Extended or Regular Style

Complete in Fine Leather Box

No. 8714 Price for Complete Watch . . $45.40

THE A. LINCOLN 12-SIZE LATEST MODEL



The Young Man's Watch

This watch [illegible] made in Springfield, Illinois. Lincoln's home [illegible] for [illegible] service. It is accepted as [illegible] and for it from young men [illegible] the name of Lincoln, has [illegible] great [illegible] as a young man's watch.

We are very glad [illegible] to the [illegible] Springfield [illegible] of Abraham Lincoln [illegible] forget [illegible] and [illegible] the [illegible] was [illegible] 1865 that [illegible] Springfield is rich in memories of the martyred [illegible] and some of his most intimate friends are still living [illegible] many wonder then, that the Illinois Watch Company of Springfield [illegible] years after Mr. Lincoln's [illegible] movements after [illegible]

We are glad to [illegible] famous watches to your attention [illegible] proud to [illegible] by the makers [illegible] high grade time keepers.

THE A. LINCOLN

A remarkable watch value to retail for $40.00. The movement is 21 jewels adjusted to 5 position and are cased in plain polished, engine turned and engraved, 25 year case. Each watch is put up in a beautiful display case with guarantee card.

A. LINCOLN
21 JEWELS

Nickel: 21 ruby and sapphire jewels [illegible] adjusted to [illegible] and [illegible] special quality hardened and tempered compensating balance, with gold screws including [illegible] double roller [illegible] and safety pinion and pivoted [illegible] escape wheel, [illegible] compensating [illegible] polished [illegible] polished [illegible] center wheel [illegible] screw [illegible] best quality jewel [illegible] patent safety screw [illegible] pinion [illegible] polished winding wheels [illegible] double sunk [illegible] engraved in bright [illegible] pattern black enamel [illegible] lettering.

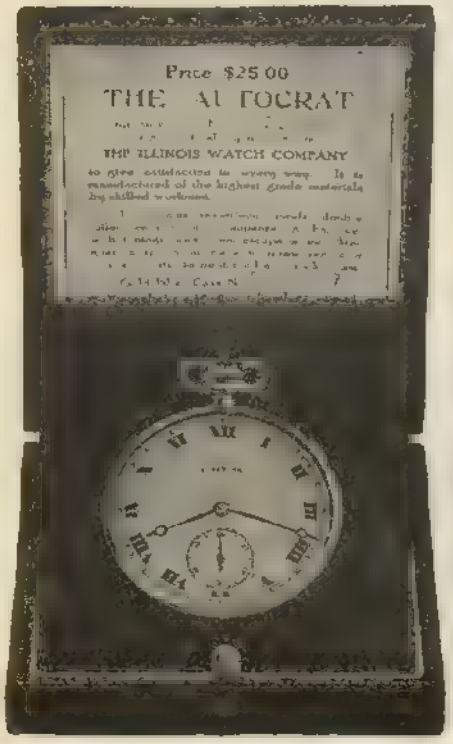
No. 8715 Price for complete watch $82.75

THE AUTOCRAT

12-Size Latest Model

Illinois - Springfield Watch

Complete in Gold Filled Case
Guaranteed for 25 Years



The Autocrat—is a smaller and thinner watch than the railroad movements, but is made with the same care and is up to the celebrated Illinois-Springfield standard for accuracy and durability.

The Autocrat — a remarkable watch value to retail for $25. The movements are adjusted, have 17 jewels, and are cased in plain polished, engine turned and engraved 25 year cases — the narrow bezels of which permit of unique widespread dials.

Each watch is put up in a beautiful display case with guarantee card.

Illustrations Actual Size

SPECIFICATIONS

THE AUTOCRAT

12-Size Bridge Model, Pendant Setting, Open Face Only

17 jewels [illegible] adjusted to [illegible] temperature, [illegible] [illegible] [illegible]

THE IMPROVED 1918 MODEL ELITE ELECTRIC CLEANER

NOTE OF INTEREST. We are again advertising this Marvelous Cleaner, because we emphatically know that it is the best cleaner on the market today. Not only from the standpoint of its remarkable low (unheard of) price, but that the service it performs, and the tests of durability we have known it subjected to, convinces us that it is truly a WONDER.

BUILT TO ENDURE

YOU MAY PAY MORE BUT YOU CANNOT BUY A BETTER CLEANER THAN THE ELITE AT ANY PRICE. IT'S A POWERFUL CLEANER MADE TO LAST

SAVE YOUR RUGS—keep them always clean and fresh by using the ELITE a few minutes each day. It preserves their luster and makes them last longer.

IMPORTANT

When ordering, be sure to state whether for direct or alternating current and give voltage. If for alternating current, state also the number of cycles.

SUPERIOR FEATURES

MOTOR—1-6 H. P. high speed, air cooled.

OILING—Constant feed oil cups.

FAN—5-inch cast aluminum, unbreakable.

BODY—Built entirely of cast aluminum.

FLOOR NOZZLE—12 inches long, 3-inch opening. Friction reverse driven brush.

HANDLE—Solid aluminum pistol grip design. Switch in pistol grip.

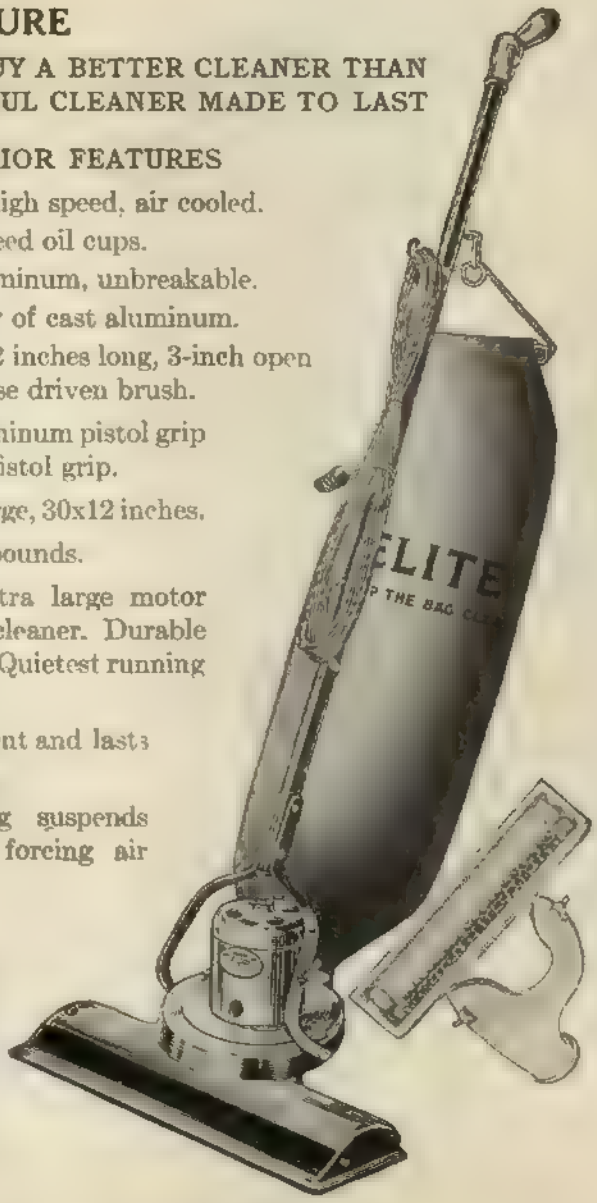
BAG—Khaki, extra large, 30x12 inches.

WEIGHT—About 9 pounds.

DURABILITY — Extra large motor makes for a long life cleaner. Durable and very powerful. Quietest running cleaner made.

Operates on any current and lasts a lifetime.

Wide nozzle opening suspends carpet from floor, forcing air through carpet.

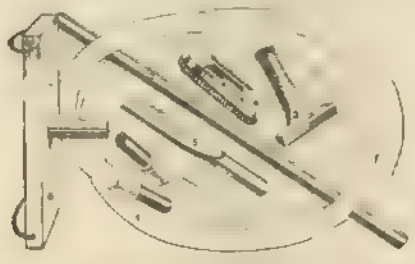


If you use the Elite Electric Cleaner you don't have to spend endless hours with broom, dusters and dust pan. Soiled hands, grimy dust caps, unpresentable work day dress, are things of the past. You are always ready to receive callers. Your home always presentable.

Just as the men folks in the office, store, factory or farm are surrounded by the best mechanical aids of all kinds, so women in the home should have those helpful labor saving devices.

Ordinary cleaning methods only remove a small portion of the surface dirt and raise clouds of germ laden dust to settle again. The drudge is never ending.

The ELITE sucks up all the dust and puts it in a dust proof bag to be taken out doors and emptied.



Extra Attachments

ARE AS FOLLOWS

No. 1—Braided Hose 10 ft. long
No. 2—30 in. Extension Tube
No. 3—Nozzle for Portieres, etc.
No. 4—Wall Brush.
No. 5—Radiator Cleaner.
No. 6—Hose Connector

Full Set of Attachments
List $14.70

BIG AND POWERFUL

YOU WILL FIND IN THE ELITE CLEANER MANY FEATURES SCARCELY TO BE EXPECTED AT SO MODERATE A PRICE.

ADJUSTMENTS These machines are adjusted at the factory for all work and need no further adjustment by purchaser. No vacuum cleaner will take up lint and threads that have been tramped into the nap of a carpet without a brush to loosen them. The ELITE is fitted with a brush driven the opposite way against the nap of the carpet to loosen them.

EVERY ELITE CLEANER IS SOLD UNDER A FULL GUARANTEE AND WE RECOMMEND THAT IT IS THE BEST BUY IN VACUUM CLEANERS. THE PRICE IS VERY LOW.

Elite Electric Cleaner . . . . . List $52.70

ELECTRIC FANS

SWIVEL TRUNNION—DESK OR BRACKET EMERSON OSCILLATING DESK OR BRACKET

THREE SPEED
(Non-Oscillating)
For Alternating and Direct Currents
Specifications

Parker (Patented), Polished Brass, Four Blades, Heavy Brass Guard (Double Ring), Dipped and Lacquered.

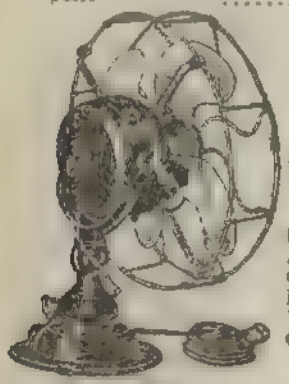
Motor and Base Finished in Black Enamel. **Three Speed** Induction Motors, no Brushes or Moving Contacts.

Dust Proof Bearings; Convertible Desk Bracket Base; Complete with Ten Foot Cord and Swivel Plug.

This Eight Inch Fan will be found to be Very Popular on Account of its Quietness, Light Weight and Low Price; Very Satisfactory for Small Room but will not Move Nearly as Much air as the 12 inch Size.

Diameter 8 inches; 4 blades; 110 Volts; 60 Cycles; Approximate Weight, Each, Net, 11½ lbs.; Weight, Packed, 17 lbs.

Lots of	1 to 5	6 to 19	20 to 49	50 or More
No. 19645—For Alternating Current	**$20.70**	**20.20**	**19.68**	**19.16**
No. 19045—For Direct Current	**$19.50**	**19.02**	**18.54**	**18.04**



This 12 inch 4-Blade Style has always been the Most Popular for General Service in Stores, Offices, and Wherever a Strong Breeze is wanted. The Consumption of Current is Low in Proportion to the Strength of Breeze

Diameter 12 inches; 4 Blades; 110 Volts; 60 Cycles; Approximate weight, Each, Net, 18 lbs.; Weight, Packed, 30 lbs.

Lots of	1 to 5	6 to 19	20 to 49	50 or More
No. 19646—Alternating Current	**$28.20**	**27.50**	**26.80**	**26.10**
No. 19046—For Direct Current	**$27.30**	**26.62**	**25.94**	**25.26**

12 Inch Residence Type

This Style Fan will be found Most Satisfactory for Home Use, Libraries, Hospitals, Hotel Bed Rooms and Places where Quietness is Important.

Moves More Air than Any Other 12-inch Fan Made, and the Speed may be Regulated to meet the Ideas of the User.

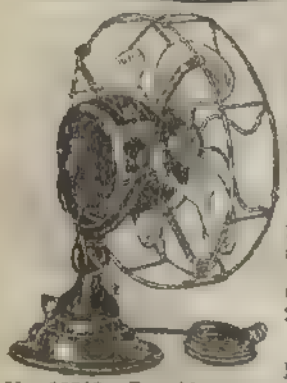
Diameter 12 inches; 6 Blades; 110 Volts; 60 Cycles; Approximate Weight, Each, Net, 25 lbs., Weight, Packed, 37 lbs.

No. 19666—For Alternating Current

Lots of	1 to 5	6 to 19	20 to 49	50 or More
	$29.40	**28.68**	**27.94**	**27.20**

No. 19066—For Direct Current

Lots of	1 to 5	6 to 10	20 to 49	50 or More
	$28.50	**27.80**	**21.10**	**26.38**



Emerson 16-inch Fans are Equipped with Very Powerful Motors, and are Intended for Service in the Largest Rooms, Stores, etc., where a Strong Breeze is to be Projected to a Great Distance. Fans of the 16-inch Size Should not be Selected for Residences, Banks or for Service in any Place where the Noise of a Powerful Fan will Prove Objectionable.

Although the Most Powerful Motors Supplied for Desk Fan Purposes, these Motors are Capable of Operating Continuously.

Diameter 16 inches; 4 Blades; 110 Volts; 60 Cycles; Approximate Weight, Each, Net, 27 lbs.; Weight Packed, 46 lbs.

Lots of	1 to 5	6 to 19	20 to 49	50 or More
No. 19648—For Alternating Current	**$34.50**	**33.04**	**32.78**	**31.26**
No. 19048—For Direct Current	**$32.40**	**31.60**	**30.78**	**29.98**

THREE SPEED
For Alternating and Direct Currents
Specifications

Single Lever Adjustable Oscillating Mechanism, with Safety Device.

Parker (Patented), Polished Brass, Four Blades; Heavy Brass Guard (Double Ring), Dipped and Lacquered.

Motor and Base Finished in Black Enamel. **Three Speed** Induction Motors. No Brushes or Moving Contacts.

Dust Proof Bearings; Convertible Desk Bracket Base; Complete with 10-foot Cord and Swivel Plug.

This New 9-inch Size Provides a Light and Portable Oscillating Fan for Home Use at a Price Within the Reach of Practically Every User of Current.

Made of the Highest Quality Material and Guaranteed to Give Satisfactory Results.

Diameter 9 inches; 4 Blades; 110 Volts; 60 Cycles; Approximate Weight, Each, Net 13½ lbs.; Weight, Packed, 22 lbs.

Lots of	1 to 5	6 to 19	20 to 49	50 or More
No. 24645—Alternating Current	**$29.70**	**28.98**	**28.22**	**27.48**
No. 24045—Direct Current	**27.00**	**26.34**	**25.68**	**24.98**

This 12-inch Oscillating Fan is the Standard Medium Speed Fan for Office and Store, Throwing a Maximum Breeze for the Size Blades; Will Prove to be a Most Popular Seller.

Diameter 12 inches; 4 Blades; 110 Volts; 60 Cycles; Approximate Weight, Each, Net, 23 lbs.; Weight, Packed, 47 lbs.

No. 24648—Alternating Current

Lots of	1 to 5	6 to 19	20 to 49	50 or More
	$38.70	**37.74**	**36.78**	**35.80**

No. 24048—Direct Current

Lots of	1 to 5	6 to 19	20 to 49	50 or More
	$34.80	**33.94**	**33.06**	**32.20**

12 INCH RESIDENCE TYPE

This 12-inch, 6-Blade Oscillator is Undoubtedly the Finest Fan for Home Use.

Moves More Air than any other 12-inch Fan Made.

Exceptionally Quiet on all Speeds.

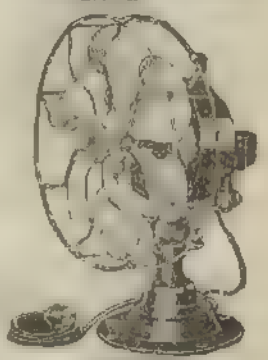
Diameter 12 inches; 6 Blades; 110 Volts; 60 Cycles; Approximate Weight, Each 25 lbs.; Weight, Packed, 47 lbs.

No. 24666—Alternating Current

Lots of	1 to 5	6 to 19	20 to 49	50 or More
	$39.90	**38.92**	**37.93**	**36.92**

No. 24066—Direct Current

Lots of	1 to 5	6 to 19	20 to 49	50 or More
	$36.00	**35.10**	**34.20**	**33.30**



This 16-inch, 4-Blade Fan will be found Invaluable for Theatre Use, Hotel Lobbies, Buffets, Markets, Large Stores, etc.

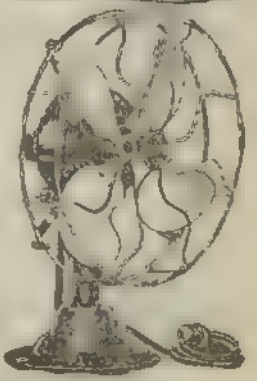
Large Powerful Motor Projects Breeze to a Great Distance. Diameter 16 inches; 4 Blades; 110 Volts; 60 Cycles; Approximate Net Weight, Each, 30 lbs.; Weight, Packed, 53 lbs.

No. 24648—Alternating Current

Lots of	1 to 5	6 to 19	20 to 49	50 or More
	$45.50	**43.88**	**42.76**	**41.64**

No. 24048—Direct Current

	$39.90	**38.92**	**37.92**	**36.92**



110 Volt Fans Listed Operate on Voltages 104 to 115. Fans of Other Cycles Quoted Specially.

Note—10 Foot Cord and Plug Included in Price

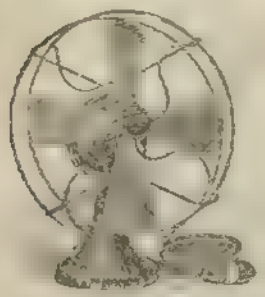
ELECTRIC FANS

EMERSON

NORTH WIND

Designed to Operate on 100 to 130 Volts Alternating or Direct Current. Operates without the Objectionable Noise and Vibrations Which Characterize the Smaller Electric Fans.

STATIONARY



Four Blades 8 inches in Diameter, Heavy Double Ring, Welded Guard with Front Wires.

Two Speeds, with Starting Switch in [illegible] Base, Pull Switch [illegible] Polished Steel [illegible] Brass Bushings with Wick Lubrication Wells [illegible] Square Carbon Brushes; Light Brass Mat Finish over Motor, Base, Blade and Guard. Complete with Plug and 6 feet of Cord. The Swivel-Base Allows the Fan to be Turned as desired and the Convertible Feature Permits Using it as a Bracket Fan without Extra Parts. It is Light Enough for Anyone to Carry. It is a Satisfactory Fan within the Reach of Everyone.

Diameter 8 inches, 4 Blades, Operates on 100 to 120 Volts Direct or Alternating Current. Approximate Weight Each About 14 lbs.

In Lots of	1 to 12	12 to 36	36 to 60	60 or more
No. NW[illegible] Each	$11 88	10 80	10 26	10 00

Twelve in a Case

OSCILLATING

Four Blades, 10 inches in Diameter, Heavy Double Ring, Welded Guard with Front Wires.

Two Speed, with Starting Switch in Motor Base, For Use on [illegible] to 120 Volt Polished Steel Shafts; Steel [illegible] Bushings in Die Cast Bronze Bearings with Wick Feed and Wells, 3 Inch Square Carbon Brushes; Light Brass Mat Finish over Motor, Base, Blade and Guard. Complete with Plug and 6 feet of Cord.

Diameter 10 inches; 4 Blades; Operates on 100 to 120 Volts, Direct or Alternating Current. Approximate Weight 15 lbs.

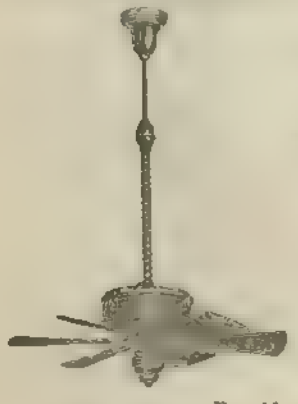
In Lots of [illegible]	1 to 5	6 to 19	20 to 49	50 or more
No. NWO[illegible] Each	$23 20	21 80	21 00	20 20

Six in a Case

ORNAMENTAL

6 Blades

60 Cycle Fan Made For Alternating Current Only



A Fan Which Operates at a Much Higher Speed Than The Ordinary Wide Sweep Fan. It Throws a Strong Breeze But Does Not Spread it Over a Wide Area as Does 52 inch Sweep Fans. It is Highly Satisfactory for Hotels, Bedrooms, Halls and Other Doorways to Prevent the Entrance of Flies and Other Insects.

It Has a Three Speed Induction Motor, Motor, Hanger and Trimming [illegible] Oxidized Copper. Mahogany Finished Hub Turned, Seasoned Wood Blades, with a 52 inch Sweep. It Operates on 104 to 125 Volts Alternating Current. Regular No. 12 Adjustable Hanger. Greatest Speed 325 R.P.M.; Slow Speed 210 R.P.M.

For Alternating Current Only

In Lots [illegible]	1 to 5	6 to 19	20 to 49	50 or more
No. 33661 [illegible] Each	$48 00	46.80	45 60	44 40

ORNAMENTAL

4 Blades Made For Alternating Current Only

Finished in Oxidized Copper Over Motor, Hanger, and All Trimmings. The Blades are Mahogany Finished, Hand Rubbed.

The Emerson Adjustable Pipe Hanger Regularly Supplied is of 3 Length to Hold a Switch 37 to 53 inches From Ceiling. The Length usually Required for Ceiling 10½ to 12 feet High.

Blades 52-inch Sweep

Three Speeds, Approximately 225, 170 and 125 R.P.M. Net Weight of One Fan About 65 lbs. Complete with Hanger, Ceiling Hook and Canopy.

For Alternating Current Only

In Lots [illegible]	1 to 5	6 to 19	20 to 49	50 or more
No. 32641 [illegible] Each	$57 00	55 58	54.18	52 74

PLAIN TYPE, 3 SPEED FAN

This Fan has Motor of Same Power and with Same Operating Qualities as the Ornamental Type 4 Blade Fan, but of Plainer Design and Finish. It is a 3-Speed Fan. The Body is Finished in Black Enamel with Oxidized Copper Trimmings, 52-inch Sweep Blades of Best Quality Hand Rubbed Mahogany Finish. Operates on 110 Volts, 60 Cycle Alternating Current. Net Weight One Fan 55 lbs. Complete with Hanger Eye, Ceiling Hook and Canopy, but Without Hanger Rod.

In Lots [illegible]	1 to 5	6 to 19	20 to 49	50 or more
No. 30641 [illegible] Each	$54.00	52.66	51 30	49.96

ORNAMENTAL

2 Blades Made For Alternating Current Only

Finished in Oxidized Copper, Over Motor, Hanger, and All Trimmings. The Blades are Mahogany Finished, Hand Rubbed.

The Emerson Adjustable Pipe Hanger Regularly Supplied is of a Length to Hold a Switch 37 ot 53 inches from Ceiling. The Length Usually Required for Ceiling 10½ to 12 feet High.

60-Inch Sweep

Three Speeds. Approximately 225, 170 and 125 R.P.M. Net Weight of Fan About 60 lbs. Complete with Hanger, Ceiling Hook and Canopy.

For Alternating Current Only

In Lots of	1 to 5	6 to 19	20 to 49	50 or more
No. 31621 [illegible] Each	$54 00	52 66	51 30	49 96

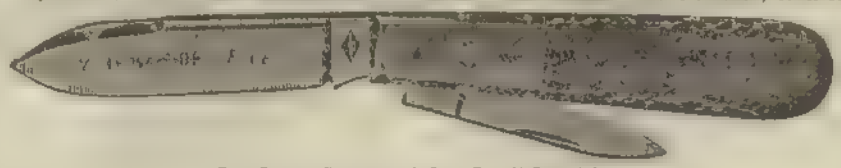
POCKET KNIVES

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons, Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

EMPIRE

TWO BLADE BARLOWS

Patent Stag Handle; Length 3¼ inches; Polished Steel Bolsters; Half Coons Polished and Etched Blades; Iron Lining; Weight per Dozen 2 lbs.



One Large Spear and One Small Pen Blade

Per Dozen

No. 2S19ST -*DIAMOND EDGE*. . . . . **$11.00** | **No. 2E19ST—Empire** **$11.00**

Per Dozen

Half Dozen in a Box

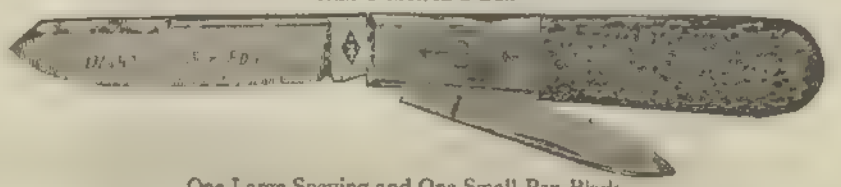
One Large Sheep Foot and One Small Pen Blade

Per Dozen

No. 2S19½ST *DIAMOND EDGE* . . . **$11.00** **No. 2E19½ST** Empire **$11.00**

Per Dozen

Half Dozen in a Box



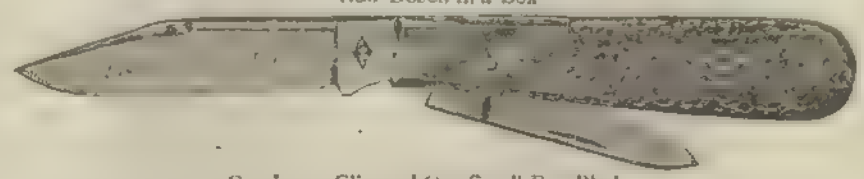
One Large Speying and One Small Pen Blade

Per Dozen

No. 2S19⅝ST—*DIAMOND EDGE* . . . . . **$11 00** | **No. 2E19⅝ST—Empire** **$11.00**

Per Dozen

Half Dozen in a Box



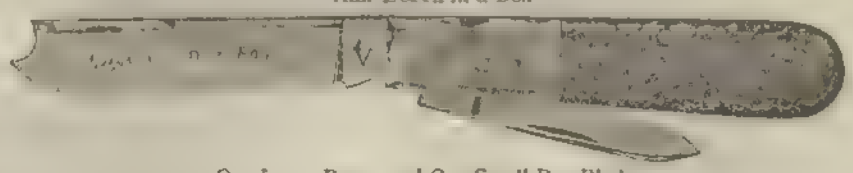
One Large Clip and One Small Pen Blade

Per Dozen

No. 2S19¼ST *DIAMOND EDGE* **$11 00** **No. 2E19¼ST** Empire **$11.00**

Per Dozen

Half Dozen in a Box



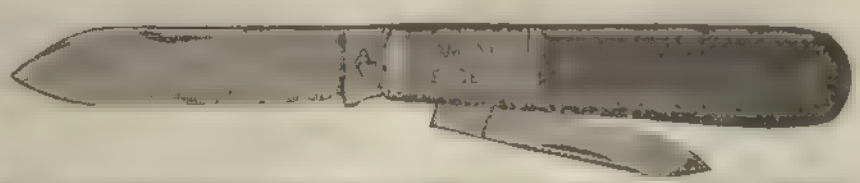
One Large Razor and One Small Pen Blade

Per Dozen

No. 2S19⅞ST *DIAMOND EDGE* . . **$11 00** | **No. 2E19⅞ST** Empire **$11.00**

Per Dozen

Half Dozen in a Box



Brown Bone Handle; Length 3⅝ inches, Polished Steel Bolsters; Glazed Blades; Iron Lining; Weight per Dozen 2⅛ lbs. Per Dozen

No. 2SO—Large Spear and Small Pen Blade. **$7.20**
No. 2SO⅝ Large Speying and Small Pen Blade. 7.20
No. 2SO¼ Large Clip and Small Pen Blade. 7.20
No. 2SO⅞—Large Razor and Small Pen Blade. 7.20
No. 2SOP—Large Spear and Small Pen Blade; Pearl Handle. 27.00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

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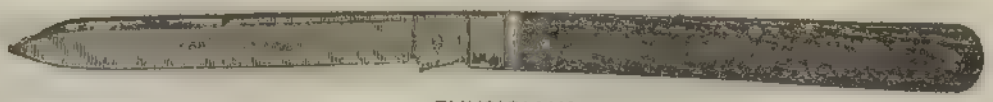
EMPIRE

ONE BLADE JACKS

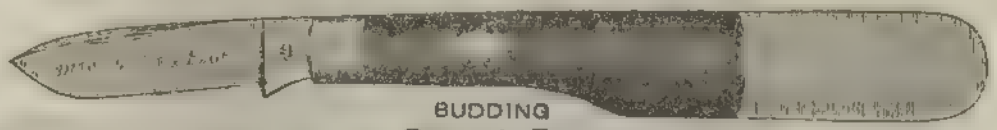


PHYSICIANS

Patent Stag Handle; Length 3¾ inches; Brass Lining; German Silver Bolster; Half Crocus Finish and Etched Blade; Weight per Dozen 18 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 1S162ST Spear Blade	$11.50	No. 1E162ST Spear Blade	$11.50

Half Dozen in a Box.



BUDDING

***DIAMOND EDGE**

No. 1S199E Ebony Handle; Length 4¼ Inches German Silver Finish Bolsters, Half Crocus Finish and Etched Blade; Brass Lining; German Silver Shield; Nickel Plated and Polished Steel Budder; Weight per Dozen 12 lbs. ... **$15.00** Per Dozen

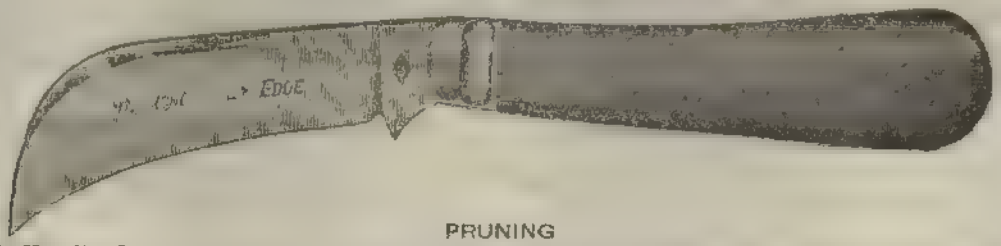
Half Dozen in a Box.

BUDDING

***DIAMOND EDGE**

No. 1S470½ST—Stag Handle and Budder; Length 5⅜ inches; Plain Unlined Hand , Half Crocus Finish and Etched Blade; Weight per Dozen 1½ lbs. ..... **$10.70** Per Dozen

Half Dozen in a Box.



PRUNING

Cocobolo Handle; Length 4 inches; Iron Lining, Iron Bolster; Glazed and Etched Blade; Weight per Dozen 2½ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	
No. 1S156 Pruning Blade	$13.00	No. 1E156—Pruning Blade	$13.00

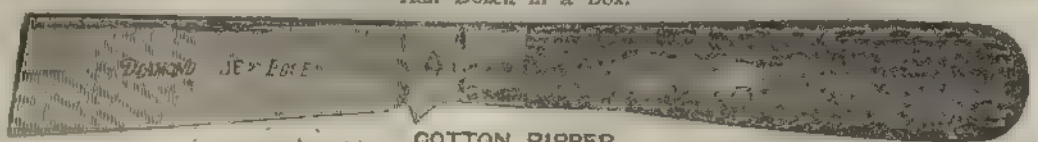
Half Dozen in a Box.

PRUNING

Cocobolo Handle; Length 4⅝ inches; Iron Seal Cap, Polished, Iron Lining, Iron Bolster, Glazed and Etched Blade, Weight per Dozen 3¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 1S157 Pruning Blade	$18.00	No. 1E157 Pruning Blade	$18.00

Half Dozen in a Box.



COTTON RIPPER

Patent Stag Handle; Length 4 inches; Iron Lining; Iron Bolster, Glazed and Etched Blade; German Silver Shield, Weight per Dozen 2¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 1S187ST—Square Point Blade	$12.00	No. 1E187ST Spear Point Blade	$12.00

Half Dozen in a Box.

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

POCKET KNIVES

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EMPIRE

TWO BLADE DOUBLE END JACKS

Length 2 ... inches; German Silver Bolsters; One Large Clip and One Large Spear Blade, Half Crocus Polished and Etched; Brass Lining German Silver Shield; Weight per Dozen 2 lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S129¾GST Genuine Stag Handle	$19.20	No. 2E129¾GST—Genuine Stag Handle	$19.20

Half Dozen in a Box

Length 3½ inches; German Silver Bolsters; One Large Clip Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining German Silver Shield; Weight per Dozen 2¼ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S307E Ebony Handle	$19.20	No. 2E307E Ebony Handle	$19.20
No. 2S307ST—Patent Stag Handle	19.60	No. 2E307ST Patent Stag Handle	19.60

Half Dozen in a Box

"Texas Hunter," Length 4 inches; Polished Steel Bolsters, One Large Clip and One Large Spear Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 2¾ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S228¾ST Patent Stag Handle	$19.20	No. 2E228¾ST Patent Stag Handle	$19.20

Half Dozen in a Box

Length ... inches; Polished Steel Rat Tail Bolsters; One Large Pruning and One Small Speying Blade, Half Crocus Polished and Etched; Iron Lining; German Silver Shield; Weight per Dozen 2 lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S154ST—Patent Stag Handle	$19.20	No. 2E154ST Patent Stag Handle	$19.20

Half Dozen in a Box

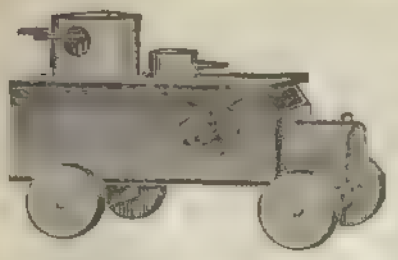
Length 4¼ inches; German Silver Bolsters, One Large Clip and One Large Spear Blade; Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 3¾ lbs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S204¼ST Patent Stag Handle	$21.00	No. 2E204¼ST—Patent Stag Handle	$18.00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

ENAMELED WOOD TOYS

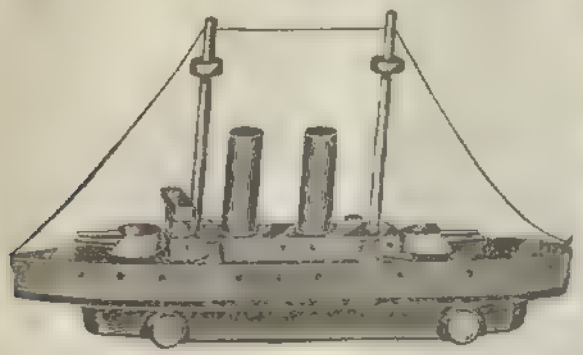


Armored Motor Car; Length [illegible] Top and Sides with [illegible] and U. S. [illegible] Colors and [illegible] All Wood, Enameled Battleship Gray; Hollow Body, [illegible] and Black [illegible] Turret has Three Swiveled [illegible]

Per Dozen

No. 1216—Weight per Dozen [illegible] lbs. [illegible] $27 00

One in a Package

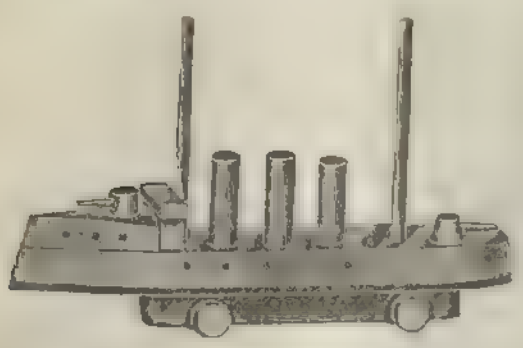


Dreadnought Battleship All Wood, [illegible] Painted Battleship Gray; [illegible] Black [illegible] and Guns; Two Revolving and Gun [illegible] Fore and Aft; Four Swiveled Side Turrets; Removable Masts, Funnels and Turrets.

Per Dozen

No. 839—Weight per Dozen 16 lbs. [illegible] $11 00

One in a Package



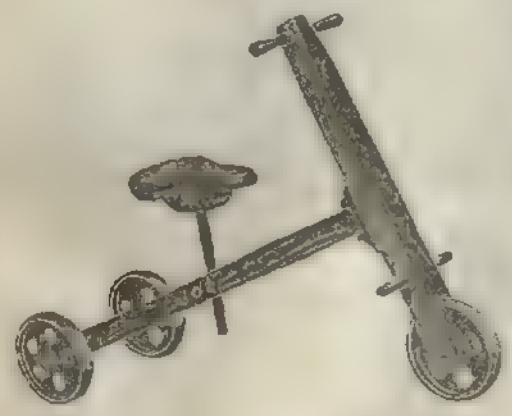
Imperial Battleship All Wood Length 13½ [illegible] Painted Battleship, Gray with Black [illegible] and Guns; Two Revolving [illegible] Turrets with [illegible] Masts, Funnels and Turrets.

Per Dozen

No. 838—Weight per Dozen [illegible] lbs. $5 00

One in a Package

SCOOTER COASTERS



The Walking Bicycle and Coaster.

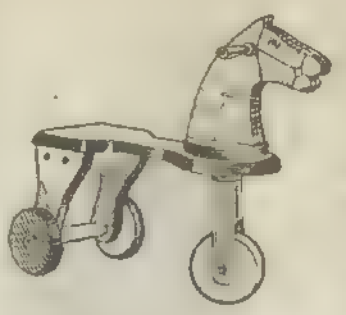
Tricycle Scooter and Coaster; Suitable for Children from Three to Ten Years of Age; Heavy Maple Frame, Varnished; Bright Red, Shaped Seat, [illegible] Handle Bar, Two Wheels [illegible] and Diameter Steel Coaster Runners, Steel Seat Post, Malleable Iron [illegible] Rubber Tires.

Per Dozen

No. 704—Weight per Dozen 118 lbs. $54 00

One in a Package

KIDDIE HORSES

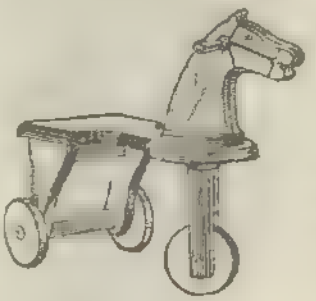


All Wood; One of the Most Fascinating Toys of Today for Babies and Small Children; Affords Entertainment and Exercise without Danger and Objectionable Noise; Strongly Made in Pleasing Lines from Substantial Thick Wood; Finely Finished and Varnished; Solid Wood Wheels; Patent Features Prevent Binding and Cramping; Hand Painted Horse Heads.

Per Dozen

No. 701—Length 20 inches; Height to Seat 7 inches; Weight per Dozen 39 lbs. $21 60

One in a Package

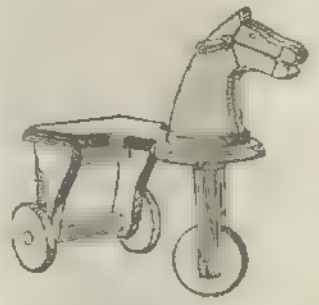


All Wood; One of the Most Fascinating Toys of Today for Babies and Small Children; Affords Entertainment and Exercise without Danger and Objectionable Noise; Strongly Made in Pleasing Lines from Substantial Thick Wood; Finely Finished and Varnished; Solid Wood Wheels; Patent Features Prevent Binding and Cramping; Hand Painted Horse Heads.

Per Dozen

No. 702—Length 21 inches; Height to Seat 8½ inches; Weight per Dozen 44 lbs. $20 00

One in a Package

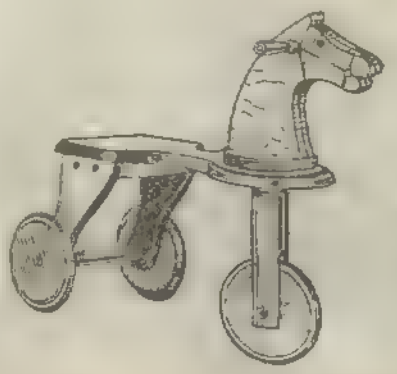


All Wood; One of the Most Fascinating Toys of Today for Babies and Small Children; Afford Entertainment and Exercise without Danger and Objectionable Noise; Strongly Made in Pleasing Lines from Substantial Thick Wood; Finely Finished and Varnished; Solid Wood Wheels; Patent Features Prevent Binding and Cramping; Hand Painted Horse Heads

Per Dozen

No. 703—Length 23 inches; Height to Seat 10 inches; Weight per Dozen 52 lbs. $40 00

One in a Package



American Thoroughbred; the DeLuxe Kiddie Horse; Made of Choicest Material in Joined, Grooved Sections, Laminated on Both Sides with Maple; Beautifully Finished; ½ inch Heavy Rubber Tires.

Per Dozen

No. 739—Length 21 inches; Height to Seat 9 inches; Weight per Dozen 61 lbs. $54.00

One in a Package

HOBBY HORSES

SWING STYLE

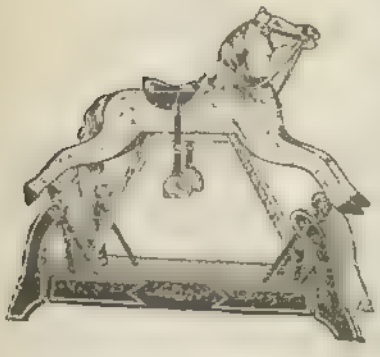
Dappled Gray Horse; Carved Wood, with Hand Carved Head; Amber Glass Eyes; Long Hair Mane and Tail; Padded Imitation Tan Leather Saddle and Trappings, with Fancy Brass Finish Studding; Heavy Cast Iron Gold Bronzed Stirrups Adjustable for Length; Heavy One-Piece Wood Bow on Gold Bronzed Wrought Steel Swing; Massive Thoroughly Braced Frame; Frame and Bow Painted Brilliant Red, with Fancy Decorations in Three Colors.

Each

No. 724—Height Over All 35 inches; Length Hoof to Hoof 40 inches; Weight Each [illegible] lbs **$22 00**

No. 723—Height Over All 32 inches; Length Hoof to Hoof 38 inches; Weight Each 36 lbs **17.00**

One in a Crate

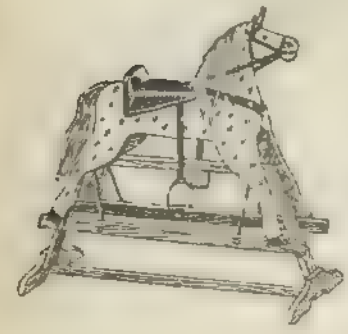


Dapple Gray Horse; Shaped Wood; Long Hair Mane and Tail; Shaped Wood Saddle; Imitation Tan Leather Saddle Flaps and Bridle; Aluminum Bronzed Cast Iron Stirrups Adjustable for Length; Three-Piece Wood Bow; Japanned Wrought Steel and Iron Swing; Massive Thoroughly Braced Frame; Frame and Bow Painted Brilliant Red, with Fancy Decorations in Three Colors.

Each

No. 722—Height Over All 30 inches; Length from Hoof to Hoof, 34½ inches; Weight Each 31 lbs. **$11.00**

One in a Crate



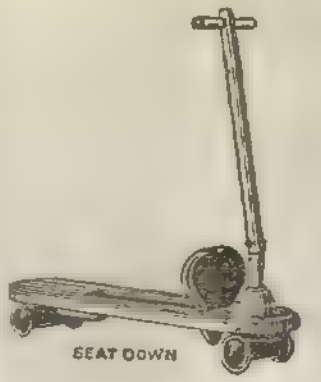
Dapple Gray Horse; Shaped Wood; Long Hair Mane and Tail, Imitation Leather Covered Saddle and Saddle Flaps; Cast Iron Stirrups, not Adjustable in Length; One-Piece Center Post; Japanned Wrought Steel Swing; Bright Red Stained Frame.

Each

No. 721—Height 29½ inches; Length 30½ inches; Weight Each 29 lbs. **$8 50**

Three in a Crate

SCOOTERS

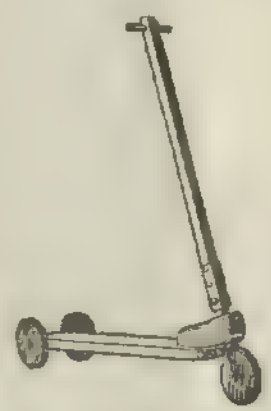


Selected Maple; Handsomely Finished and Varnished; Four 2⅜-inch Japanned Iron Wheels; When Seat is Erect and Hinged Steering Post Bent Towards Seated Rider, it Makes a Fine Coaster; when Seat is Tipped Forward it Fits into Slot, Leaving a Fine Smooth Foot Board for Scooting; Length 30 inches; Width 6 inches; Height to Saddle 17½ inches; Height of Steering Rod 27 inches.

Per Dozen

No. 741—Weight per Dozen, 96 lbs **$42 00**

One in a Package

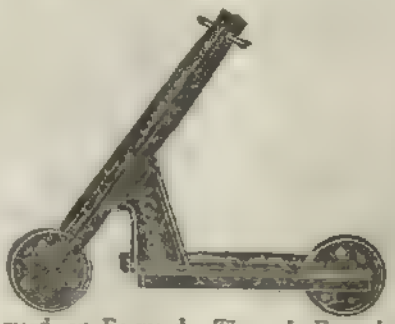


Heavy Oiled Hardwood Foot Board; 4x1½ Inch Heavy Steel Hollow Wheels; Black Japanned Folding Handle; Length 27 inches; Height with Handle Up 30 inches.

Per Dozen

No. 740—Weight per Dozen, 48 lbs. **$21.00**

One in a Package



An Excellent Vehicle for Boys and Girls; It Promotes Health, Affording an Exhilarating Outdoor Exercise, which Develops Muscle, Skill and Poise, without the Slightest Danger of a Fall or Fracture; it is **absolutely safe**, as it Can Be Stopped Very Easily by Simply Stepping Off; it is Nearly Impossible to Fall Backward or Forward. There is Enough Skill Required in Propelling the Gocycle to Make it Fascinating to Boys and Girls of Any Age.

They Are Made Entirely of Hardwood and Iron, Securely Jointed, the Iron Parts Well Enameled to Protect Against Rust and Wear; the Platform and Standards Are Stained Bright Green, Metal Parts Red, Affording Strong Contrast in Colors.

Per Dozen

No. GC—25x25 inches; Weight per Dozen 50 lbs. **$15 00**

Loose

COFFEE, DRUG OR SPICE MILLS

ENTERPRISE

Wheel Pattern, Plain Bearings

Cast Iron, Painted Red, Blue and Gold Striped; Chilled Iron Grinders, Warranted as Hard as Steel; Thumb Screw Adjustment on Side of Wheel

Iron Hopper; Hardwood Base Board, Will Pulverize or Granulate Coffee.

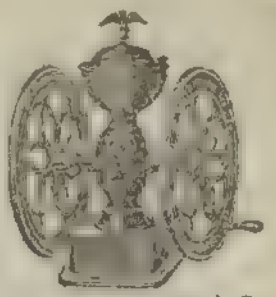
Nos.	2	3
Hopper Holds, Lbs.	4	5
Grinds per Minute, Lbs.	1½	2
Height, Inches	21½	24
Base, Inches	6½x6½	8½x8½
Wheels, Inches	8½	10½
Weight Crated, Lbs.	25	39
Each	$0 50	14 00

No. 2, Six in a Case; No. 3, Three in a Case

Iron Hopper; Hardwood Base Board; Will Granulate Coffee, Fine or Coarse; Not Intended to Pulverize.

No.	5
Hopper Holds, Lbs.	4
Grinds per Minute, Lbs	¼
Height, Inches	17
Base, Inches	9½x9½
Wheels, Inches	12½
Weight Cased, Lbs	50
Each	$20 00

Three in a Case



Iron Hopper; Hardwood Base Board; Will Granulate Coffee, Fine or Coarse; Not Intended to Pulverize.

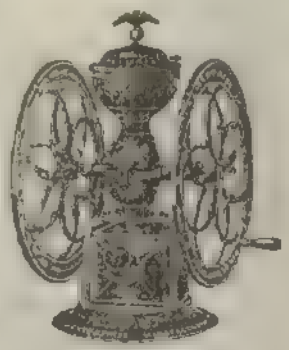
Nos.	7	9
Hopper Holds, Lbs.	1	3
Grinds per Minute, Lbs	1	1½
Height, Inches	21½	24
Base, Inches	11x11	13x13
Wheels, Inches	17	19
Weight Crated, Lbs.	60	107
Each	$28 00	40.00

One in a Crate

Nickel Plated Stamped Steel Hopper; Hardwood Base Board; Will Granulate Coffee, Fine or Coarse; Not Intended to Pulverize.

No.	8
Hopper Holds, Lbs.	2½
Grinds per Minute, Lbs	¼
Height, Inches	27
Base, Inches	11x11
Wheels, Inches	17
Weight Crated, Lbs.	50
Each	$10 00

In One Crate and One Box



Iron Hopper; Body and Base, Sheet Steel; Funneled Box; Will Granulate Coffee, Fine or Coarse; Not Intended to Pulverize.

✣ No.	22
Hopper Holds, Lbs.	3
Grinds per Minute, Lbs.	1½
Height, Inches	32
Diameter of Base, Inches	18
Wheels, Inches	25
Weight Crated, Lbs.	141
Each	$80.00

One in a Crate

Iron Hopper; Body and Base, Sheet Steel; Funneled Box; Will Granulate Coffee, Fine or Coarse; Not Intended to Pulverize.

✣ No.	212
Hopper Holds, Lbs.	6½
Grinds per Minute, Lbs.	1½
Height, Inches	63
Diameter of Base, Inches	18
Wheels, Inches	31
Weight Crated, Lbs.	250
Each	$74 00

Per Pair

No. 212PP—Power Pulleys; 18x2 inches; Weight per Pair 36 lbs. $18.00

In One Crate and One Box

Cast Iron Hopper, Body, Wheels and Stand Painted Red, Gold Striped; Sheet Steel Funnel Box; Will Granulate Coffee, Fine or Coarse; Not Intended to Pulverize.

✣ No.	18
Hopper Holds, Lbs.	6½
Grinds per Minute, Lbs.	1½
Height, Inches	63
Spread of Legs, Inches	25x27
Diameter of Wheels, Inches	31
Weight Crated, Lbs.	275
Each	$100 00

Per Pair

No. 18PP Power Pulleys; 18x2 inches; Weight 36 lbs. $21 60

Not Intended for Grinding Spice

✣ No.	216
Hopper Holds, Lbs.	6½
Grinds per Minute, Lbs.	1½
Height, Inches	68
Spread of Legs, Inches	25x27
Diameter of Wheels, Inches	35
Weight Crated, Lbs.	275
Each	$112 00

Per Pair

No. 216PP - Power Pulleys; 18x2 inches; Weight 36 lbs. $27 00

One in a Crate

When Using Power Pulleys, Speed Must Not Exceed 200 Revolutions per Minute.

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Philadelphia, Pa.

BASE BURNERS

★NORLEIGH DIAMOND

For Hard Coal or Crushed Coke

Appearance.—Beautiful and Graceful Colonial Design. Perfect Proportion and Brilliance of Nickel Give it an Exceedingly Attractive Appearance

Construction.—Heavy Cast Iron Parts, Extra Large Magazine, Lower Part Casing Oil Pipe Prevents Leakage of Gas. Fitted with Automatic Gas Check that Fits Under Swing Top, Making it Gas Tight. Syphon Flue System with Extra Large Central Ventilator. Heart of Ventilator Makes Contact with Combustion Chamber. Down and Up Flues Extend Around Sides and Back of Stove Body. Top of Ventilator has Detachable Register, which may be Connected with Pipe to Heat Rooms on Second Floor. Down Flue at Top and Back of Magazine Carries all Gases Back to Combustion Chamber.

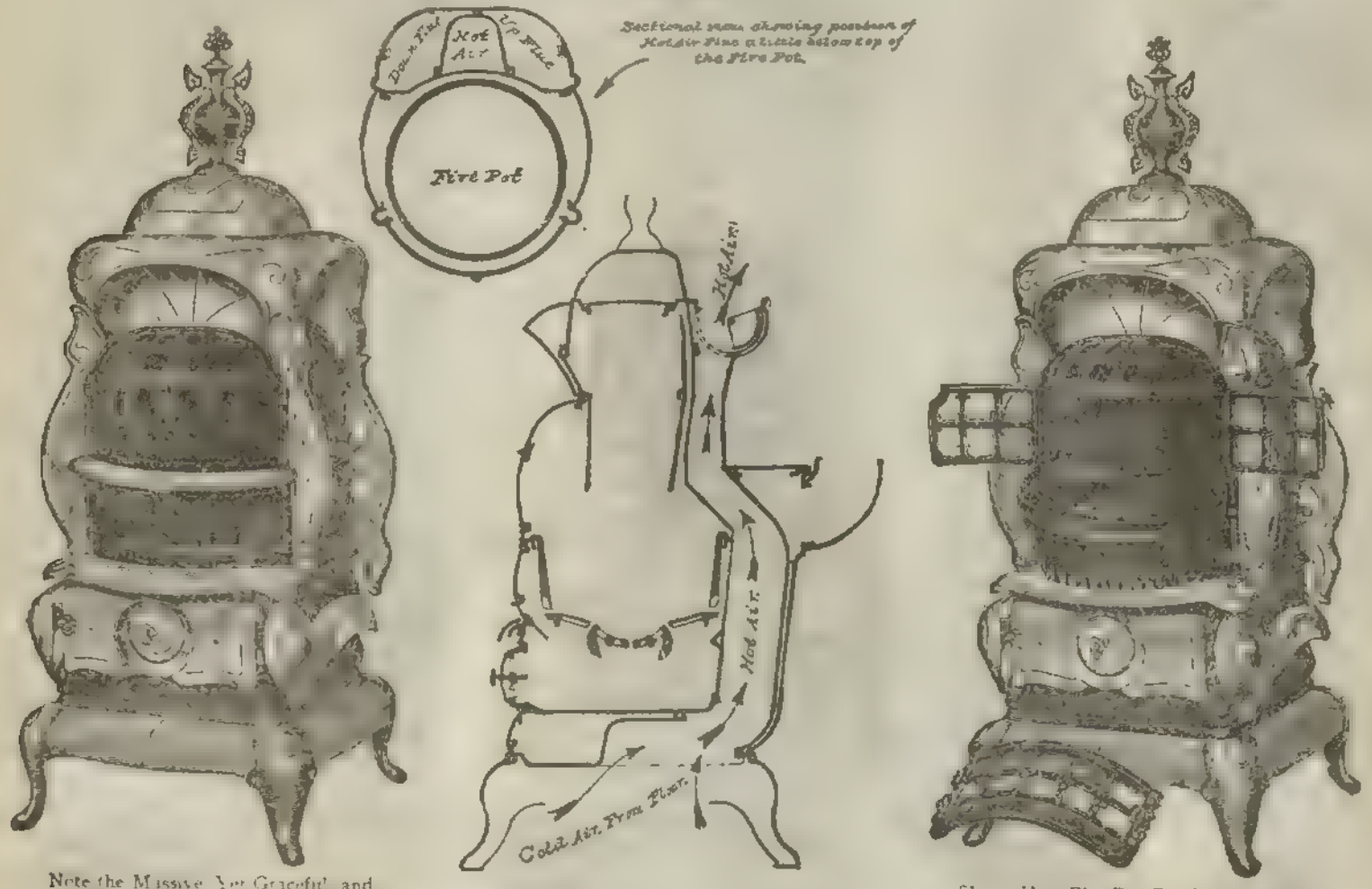
Fire Pot Construction, Etc.—Fire Pot Only Slightly Tapered, Giving Large Fire Surface on Grate. Long Contact on Bottom of Fire Pot Allows Air Ready and Insure Perfect Combustion. Can be Turned to Allow for Unequal Wear. The Loose Lining and Expanding Joint Permit Lengthening of Stove Body to Allow for Expansion of Fire Pot at Overheated. Fire Pot and all other Internal Parts can be Removed Only by Simply Opening the Front Door Frame. (See Cut.)

Grate Consists of Duplex Center Bars, which Quickly Crush all Clinkers. Has Bevel Sifting Ring that Forces Ashes, etc., to Duplex Center. Extra Wide Ash Guard Guides all Ashes into Ash Pan, Insuring Cleanliness.

All Heat Leaving the Fire Pot Makes Complete Circuit of Base, Heating All Corners Evenly, as the Circulation Forces Heat Currents to Sides and Corners of Base Flue.

Cleanout for Base Flues is in Front and Convenient.

Mica Doors, etc., have Bolts with Brass Nuts, which Insure Easy Removal.



Note the Massive Yet Graceful and Perfectly Proportioned Appearance

Shows How Fire Pot Can be Removed Through the Front Door

Double Heating Base Burner; for Hard Coal or Crushed Coke

The Above Illustrations Convey Reasonably Correct Outside Appearance and the Inside Construction of Our Popular Norleigh Diamond Base Burner.

The Following Parts are Super Nickel Plated. Dome and Deflector Top, Swing Cover, Corner Columns, Ash Pit Door, Name Plate, Side Rails, Leg Base, Draft Handles, Knobs, Hinge Pins, Turn Keys and Crank.

	Inside Diameter of Fire Pot	Height Over All	Diameter Pipe Collar	Weight Crated each	Each
No. NDB213	15 in.	51 in.	6 in.	375 lbs.	$92 00
No. NDB215	16½ in.	53 in.	6 in.	425 lbs.	104 00
No. NDB217	16 in.	55 in.	6 in.	470 lbs.	118 00

No Other Base Burner Made will Radiate More Heat than the Norleigh Diamond

Each Stove Crated

EXPLODING NAVAL TOYS

Same as the No. 510 Set, Except Larger and much more Elaborate; Consisting of Extra Large Dreadnaught Battleship, and Two Target or Shooting Submarines; Dreadnaught has Separate Fore and Aft Compartments; each with Separate Exploding Apparatus, so that when Battleship is "Disabled" by Hitting One Target, Smokestack, Turret, Bridge portion, etc., are Exploded into the Air Leaving the Vessel to be Battered Down and "Totally Destroyed" by Further Attack; Easily Reassembled.

Per Dozen

No. 511—Length of Battleship 11", Inches Length of Submarines, 6¼ inches; Weight per Dozen Sets 19 lbs. **$27 00**

One Set in a Box

BATTLE GAMES

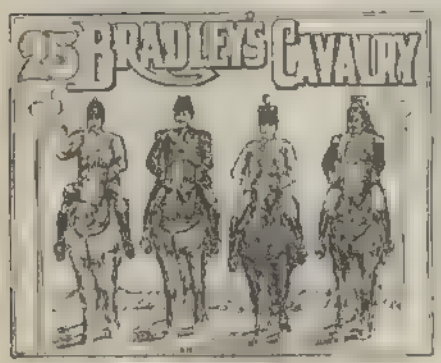
Consists of 6 Lithographed Soldiers in Brilliant Colors, 6¾ inches High, mounted on Wood Bases; Repeating Pistol same as No. 279; 5½ inches Long; Holds 8 Shots; Complete with Liberal Supply of 1⅜ inch Wood Projectiles.

Per Dozen

No. 273—Box 10¼x7¼ inches, Weight per Dozen 8 lbs. **$5.50**

Half Dozen in a Package

TOY SOLDIERS



Mounted Troopers, 6½ inches High, Brilliantly Lithographed in Natural Colors, and Bright Uniforms; Troopers, Buglers, Drummers and Officers, Heavy Cardboard, mounted on Wooden Bases; Each Set with U. S. Flag mounted on Wood Base; Fancy Lithographed Covered Boxes.

Per Dozen

No. 270—25 Cavalry Men, representing Two Armies; Box 11¾x9¼ inches; Weight per Dozen 11 lbs. **$4 70**

Half Dozen in a Package

No. 271—50 Cavalry Men; representing Four Armies; Box 21¾x9¾ inches; Weight per Dozen 23 lbs. **10 00**

Quarter Dozen in a Package

No. 272—100 Cavalry Men and Two Flags; representing Eight Armies Box 21¾x12¾ inches; Weight per Dozen [illegible] Model Colonial Regiment Consisting of the Nations [illegible] Revolutionary War **18 00**

One in a Box

TOY LEAD SOLDIERS

Solid Cast Lead Figures; Enameled Bright Colors, which will not Wash, Chip or Peel Off; Figures Extra Large and Durable.

Per Dozen

No. 1351—Consists of Five American Indians, 2½ inches High; Box 9¼x7¼ inches; Weight per Dozen 6 lbs. **$4 50**

No. 1352—Consists of Five American Soldiers, Four Infantry Privates and Captain, 2⅝ inches High; Box 9¼x7¼ inches; Weight per Dozen 6 lbs. **4 50**

No. 1353—Consists of Four U. S. Marines, 2⅞ inches High; and Battleship 3 [illegible] Long, made of Light Weight Composition Material to Float; Box 9¼x7¼ inches; Weight per Dozen 6 lbs. ... **4.50**

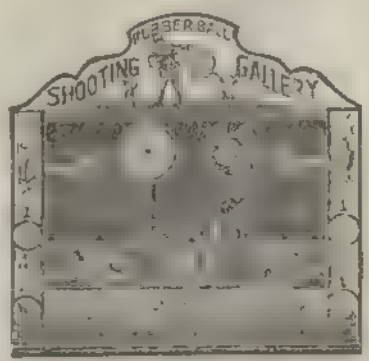
No. 1354—Consists of Six U. S. Marines, 2⅞ inches High; and Fleet of Six Battleships, each 3½ inches Long, made of Light Weight Composition Material to Float; Box 12¼x9½ inches; Wt. per Dozen 12 lbs. **8 00**

No. 1355—Consists of 7 American Soldiers, Six Privates 2⅝ inches High, and One Officer Mounted on Horse 3 Inches High, Gold Bronze Cannon, Adjustable for any Range and Shoots Small Projectiles; White Cloth Tent with Enameled Flag on Standard; Entire Set Mounted on Heavy Cardboard in Box 12x9½ inches; Weight per Dozen Sets 12 lbs. **10 50**

No. 1356—Consists of 16 American Soldiers, 14 Privates 2⅝ inches High and Two Officers, mounted on Horses 3 Inches High; One Gold Bronze Cannon, Adjustable for Any Range and Shoots Small Projectiles; and One White Cloth Tent with Enameled Flag on Standard; Entire Set Mounted on Cardboard Base; in Box 16¾x10½ inches; Weight per Dozen Sets 18 lbs. **19.00**

One Set in a Box

TOY SHOOTING GALLERIES

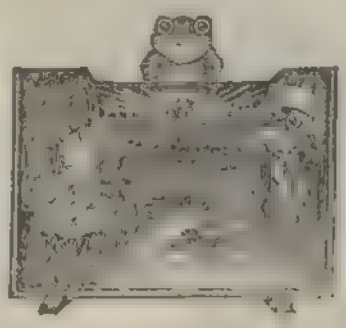


Brilliantly Lithographed, painted and Gilded; Length 18 inches; Height 14 inches; Depth 4¼ inches; Complete with 17 inch Spring Gun, Shooting Cork or Rubber Ball; Two Corks and Two Rubber Balls Furnished with each Gun; Pipes and Targets are Hinged so that when a Hit is Made, the Target Smack Tumbles Over; the Clown Screen in Rear Section is Controlled by a Clever Counter which Allows Him to Come Up Beneath the Counter when Set, so that when Large Bull's Eye is Hit, Clown is Released and Springs Up to Full Length Ringing the Bell and Announcing a Perfect Score.

Per Dozen

No. 518—Weight per Dozen 25 lbs. **$24 50**

One in a Package



FROG SHOOTING GALLERY

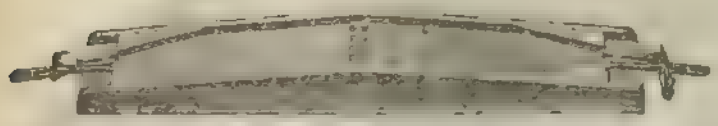
[illegible] Lithographed in Brilliant Colors; Hardwood Base; Frog at Top is Mounted on a Strong Spring and is Held by a Trigger; when Struck by a Shot, Trigger is Released and Frog Leaps into the Air in a most [illegible] All-wood Gun 15 [illegible] Long, Nicely Finished; Box is 15x10¾ inches, with Attractive Label.

Per Dozen

No. 1564—Weight per Dozen 2 lbs. **$18 00**

One in a Box

SIEGE GUNS



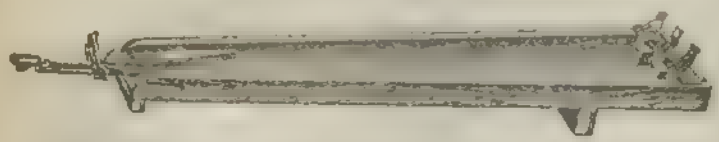
Length 72 inches; All Hardwood, Varnished; Cast Iron Trench at "Top of the Hill" Sloped Towards Gun at Each End; Nickel Plated Cast Iron Siege Gun Operated by a Spring Controlled Lever giving Force as Desired by Player; the Gun is Swiveled to Allow Aiming at Any Angle; The Object is to Shoot the Clay Marble or "Bomb" so that it will Land in the Trenches; the Trenches are Numbered to Allow Computing Score. The Very Middle or Hardest Section of the Trench Scoring Highest of All; Players Develop a Great Deal of Skill, in that it is Required that Players do not Shoot Over the Trenches and yet must not Shoot Short; the "Shell" must be Aimed just Right, and have the Exact Force Required to Land in the Trenches.

Per Dozen

No. 1135—Weight per Dozen 24 lbs. **$11 00**

One in a Box

RIFLE RANGES



Length 29½ inches, Hardwood Alley, Cast Iron Gun and Target Frame, Length 18 inches, Varnished, Iron Cast Iron Targets, Painted in Bright Colors; Drop when Struck; Set of Target Bonzer and Bumper Cast Iron, Nickel Plated Color, Small Cast Iron Gun Sights, Swings Right from Any Angle, Operated by Spring Lever and Release Trigger; Shoots a Large Hollow Polished Steel Ball

Per Dozen

No. 1136—Weight per Dozen 22 lbs. **$11 00**

One in a Box

SHARPSHOOTERS

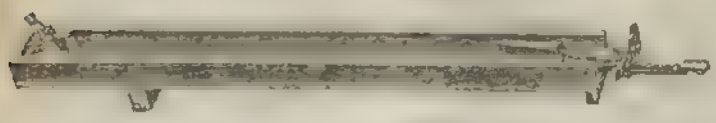
Sharpshooter; Hardwood; Varnished; 32x6½x4 inches; Four Cast Iron Bronze Plated and Nickel Plated "Soldiers" at Each End, so Pivoted that they will Drop when Struck by the Projectiles; Large Nickel Plated Cast Iron Cannon at each End, Swiveled so it can be Trained and Aimed at any Angle, Operated by Spring Lever and Release Trigger; the Reflector Back of the Targets Protects the Operator and Serves the Purpose of Retaining Wildly Projected Balls on the Board; The Ammunition Consists of Four Large Highly Polished Hollow Steel Balls; 2 Miniature U. S. Flags are Packed with Each game.

Per Dozen

No. 1134—Weight per Dozen 35 lbs. **$21 00**

One in a Box

SHOOTING GALLERIES



Length 29½ inches; with One Target and with Glass Marble Projectile Instead of Steel Ball; Stained Bright Red instead of Varnished; Otherwise Same as No. 1136 Rifle Range.

Per Dozen

No. 1138—Weight per Dozen 18 lbs. **$6 50**

One in a Box

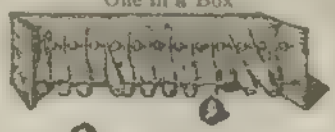
BOWLING ALLEYS

Bowling Alley; Length 24 inches; Width 2¾ inches; 2½ inches High; Hardwood Alley, Varnished, Iron Cast Iron Pins, Painted and Polished; Two Large Highly Polished Hollow Steel Bowling Balls; Nickel Plated Cast Iron Gun which Shoots the Ball, Swiveled so that it can be Sighted at Any Angle; Operated by Spring Lever and Release Trigger at Swinging Iron Curtain Behind the Pins Catches the Impact of the Ball and Retains it.

Per Dozen

No. 1133—Weight per Dozen 55 lbs. **$21 00**

One in a Box



LITTLE BOWLER

Varnished Hardwood Frame; the Pins are Suspended on a Wire Running from One End of the Frame to the Other; when a Pin is Hit it Flies up and Rests on the Front Wire Bar; Number on Bottom of Pin shows Score or the Shot; Polished Maple Pins and Balls, and Regulation Score Card.

Per Dozen

No. 259—8¾x4½ inches; 2¾ inch Polished Pins; 3 One inch Balls; Weight per Dozen 6 lbs. .. **$5 00**

Third Dozen in a Package

No. 260—11x5⅜ inches; 3¼ inch Polished Pins; 3⅛ inch Maple Balls; Weight per Dozen 12 lbs. **10 00**

No. 261—15½x6½ inches; Varnished Pins, Polished Maple Balls; Weight per Dozen 16 lbs. **18 00**

Crated in a Box with Hinged Cover

A Fascinating Bowling Game; Substantial, Well Braced Wooden Frame, 14¼x11¼ inches; Pins 5 inches High; Pins are Riveted on Axle so that when Struck by Ball they Tip Forward Releasing a Spring, which Causes a Numbered Disc to Jump Up above Frame Announcing Score of the Hit; at the Same Time a Comical Negro Face Appears in the Circle Previously Occupied by Number; Automatic Setting Lever; Three Hardwood Balls 1½ inches in Diameter.

Per Dozen

No. 257—Weight per Dozen 24 lbs. **$20.00**

One in a Box

TARGET GAMES

Three Bright Colored Lithographed Figures Swung on a Wire Representing Happy Hooligan, Grandpa, and Captain Kid; When Hit with a Wooden Plug from the Revolving Pistol, the Figures Roll Over and Come Back to Position Ready to be Hit Again; Automatic Setting Lever to Enable Competitive Scoring when Desired; 5½ inch Repeating Pistol; Holds 8 Shots; Liberal Supply 1¾ inch Wooden "Bullets;" Complete with Target, Pistol and Ammunition.

Per Dozen

No. 270—Box 10¾x7¼ inches; Weight per Dozen 8 lbs. **$5 50**

Half Dozen in a Carton

With Wood Stand, 7½ inches Long, with Handsomely Lithographed Target and Birds; the Birds sit over a rod with a long steel Coiled Spring and the device is such that a Shot accurately Hitting the Target or Bird releases Spring and Bird flies into the Air and drops to the Ground; Coppered Steel Wired Pistol 7½ inches Long with Steel Spring; Hollow Center Round Wood Bullets.

Per Dozen

No. 267—Box 8x6¾ inches; Weight per Dozen 6 lbs. **$5 50**

Third Dozen in a Carton

F·O·K·C

COLD BLAST.

Absolutely wind proof; gives bright light; has an inside lift that cannot get out of order.

The fluted globe plate prevents the wind from striking the flame, which burns without flickering.

It is our aim to furnish the trade a line that will give the best light possible to be had from kerosene, best in brilliancy and best in withstanding the wind.

Our lanterns have our **F. O. K. & Co.** trade mark and the number of the lantern stamped in the fount, and the **F. O. K. & Co.** blown in the globe.

F. O. K. & Co. lanterns are made by a factory whose goods have been favorably known for the past ten years, through the construction of the ONE PIECE TOP and FLUTED GLOBE PLATE.

F. O. K. & Co. lanterns are fitted with the **latest lifts, larger oil founts and extra large fillers and flush filler screw caps** and in their construction only the best grade of tin plate, wire, burners and globes are used.

BURNERS are high grade tinned steel with brass wick tubes.

Per Dozen

No. 2—Fount holds oil enough to burn 23 hours; takes a No. 2 cold blast burner; 1 inch wick; cold blast globe.....$18.80

One half dozen in a case, weight per case, 25 pounds.

No. 200—Fount holds oil enough to burn 50 hours; takes No. 2 cold blast burner; 1 inch wick; cold blast globe..... 20.80

One half dozen in a case, weight per case, 30 pounds.

No. 20BF—Same as No. 2 but with brass fount..... 25.00

HOT BLAST

Per Dozen

No. OHB—Has the new patent inside lift to raise and lower the globe. Oil fount drawn from one piece and holds oil enough to burn 23 hours. Takes a No. 1 burner; ⅝-inch wick and No. 0 globe.....$12.70

One dozen in a case; weight per case, 35 lbs.

No. 2HB—Has the new patent inside lift to raise and lower the globe. Oil fount is drawn in one piece, and holds enough oil to burn 25 hours. Takes a No. 2 burner; 1 inch wick; No. 0 globe..... 13.80

One-half dozen in a case; weight per case, 18 pounds.

TRIUMPH.

The leading features of Triumph lanterns are: absolute wind proof construction as cone is securely fastened to globe plate which prevents wind from blowing down globe holder. Has new patent standing bail. Made from heavy tin throughout; inside lift is heavy tin iron. Fitted with short cold blast globe.

Per Dozen

No. 2T—Tin Fount, holds enough oil to burn 30 hours; 1 inch wick; No. 2 burner; short cold blast globe; height over all, 14¼ inches; weight per dozen, 40 lbs.....$18.80

Half dozen in a case.

No. 200T—Tin Fount; holds enough oil to burn for 45 hours; height over all, 15 inches; weight per dozen; 42 lbs.; otherwise same as No. 2..... 20.80

Half dozen in a case.

No. 2BF — Brass Fount, holds enough oil to burn 30 hours; 1 inch wick; No. 2 burner; short cold blast globe; weight per dozen, 29 lbs.... 25.50

Half dozen in a case.

RAINBOW ASSORTMENT.

F·O·K·C

ASSORTMENT CONTAINS:

One-half dozen No. 200C, Cold Blast, extra large fount, finished in green, red and blue enamel, two of each color.

One-third dozen No. 2CF, Cold Blast, large copper fount, finished in red and green enamel, two of each color.

One-sixth dozen No. 2D, Cold Blast Dash, large fount, finished in red and blue enamel, one of each color.

Per Assortment

F. O. K. & Co. Rainbow Assortment—Complete as enumerated above; shipping weight, 50 lbs..... Imyd $22.50

SIDE LAMP BRACKETS.

Per Dozen.

No. SLB—Side Lamp Brackets, for fastening F. O. K. & Co. Side Lamp to dash board or seat. Made of 1 inch malleable iron; length over all, 5 inches; weight per dozen, 3 lbs... $3.50

In bulk.

F·O·K·C

COLD BLAST DASH.

Per Dozen

No. 2D—Dash; fount holds oil enough to last 23 hours; fitted with a bright reflector, wire dash spring and Bull's Eye globe; takes No. 2 cold blast burner; 1-inch wick; cold blast Bull's Eye globe; nicely enameled in red..$26 00

One-half dozen in a case; weight per case, 30 lbs.

Another FEDERAL

The St. Louis Water Division's 3½-ton Federal quickly and economically moves sewer construction and repair supplies.

Federal Proves Worth in Sewer Construction Work

The Water Division of St. Louis makes the widest use of its 3½-ton Federal truck in maintaining its water and sewerage systems up to the mark.

Federal adaptibility to every hauling requirement and low cost of operation fit Federal trucks particularly for municipal service.

Let us show you how Federals are promoting municipal hauling efficiency.

Write for Federal Traffic News

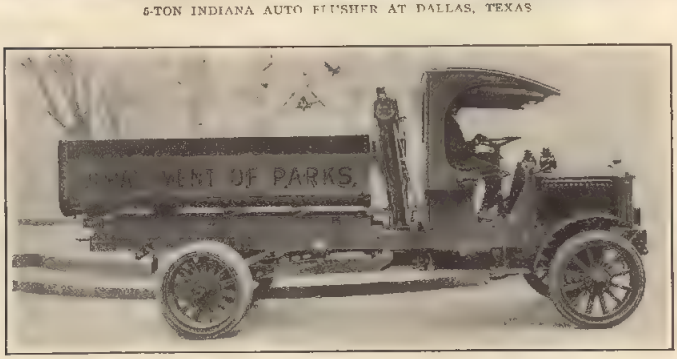
A Capacity for Every Requirement

FEDERAL MOTOR TRUCK CO.
343 Federal Street, Detroit, Michigan

FEDERAL

PACKARD TRUCK IN USE BY NEW ORLEANS DOCK BOARD

5-TON INDIANA AUTO FLUSHER AT DALLAS, TEXAS



8½-TON FEDERAL TRUCK OWNED BY THE CITY OF NEW YORK

HORSE LAWN MOWERS

+FENDEN

Four Blade Reel; Drive Rollers 15 inches in Diameter; Diameter of Reel 8 inches; Finished in Green, Gold and Red Paint and Varnished; Handsomely Ornamented.

Guaranteed to give the best satisfaction of any Horse power mower on the market. The frame construction is the strongest that is possible to build and is reinforced at each end with heavy steel bars. All parts accurately machined and fitted. Equipped with the **only graduated** raising and lowering device, enabling the operator to instantly adjust the cutting height or allow the knives to pass over a stone.

Both the bottom knife and the reel are domountable without disturbing the frame of the mower. Reel bearings turn in adjustable split brass bushing. Four revolving blades 5/16 of an inch in thickness and made of the best knife steel obtainable, vanadium-crucible analysis, oil tempered. Double riveted malleable reel braces throughout.

Fitted with a train of three gears and durable triple pawl ratchets. Diameter of drive rollers 15 inches. Reel [illegible] in diameter and is quickly adjusted to the [illegible]tionary or [illegible], the adjusting screws being easily accessible and seldom require attention.

Fully equipped with driver's seat, shafts and side-draft attachments.

Width of Cut, Inches.....	**30**	**35**	**40**
Weight Boxed, lbs.....	610	825	1025
Each.....	**$200 00**	**287 00**	**304 00**

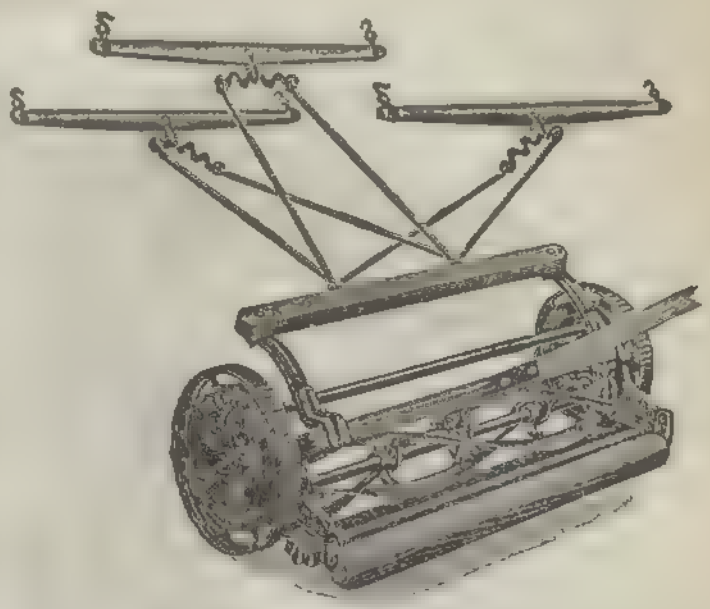
Items Marked + Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Richmond, Ind.

THE MERCHANT USING OUR MAIL ORDER SERVICE ACCOMPLISHES MANY TURNS OF STOCK, BECAUSE HE CARRIES A SMALL STOCK OF MANY ITEMS, RATHER THAN A LARGE STOCK OF A FEW ITEMS.

THE MORAL IS: BUY SMALLER LOTS. BUY OFTEN BY MAIL. KEEP EVERY DOLLAR TURNING AS MANY TIMES AS POSSIBLE DURING THE YEAR. OUR MAIL ORDER SERVICE WILL HELP YOU DO IT.

PONY LAWN MOWERS

CRESTLAWN—BALL BEARING



The Construction of this Machine is Positively the very best on the Market and is as near perfect as can be made. The parts making the Frame are all Lathe Turned and the Cast Bed Plate is Machined Into the Side Plates, Forming an Automatic Interlocking Adjustment which cannot be Jarred or Twisted out of Alignment.

Pony Mowers are often used by Hand Power and the Crestlawn is particularly Good for this Purpose, as it has **Ball Bearing Drive Wheels.** This makes the Machine Easy Running and very little harder to operate than many hand machines.

The Reel is made with Four Revolving Cutters and is Ball Bearing. The Ball Bearing Parts are Automatic in action and never need to be touched by the Operator. The Revolving Cutters are, therefore, held [illegible] conditions and will give a Clean Shear Cut at all times.

The Steel Bed Knife is made with Raised Lip, which adds Strength and Rigidity.

All material is first grade and the very best that money can buy

Drive Wheels 10½ inches high. Diameter of Reel 6 inches. Reel Axle ¾ inch. Adjustable to cut grass to lengths of ¼ to ½ inch. Cuts grass standing 7 inches high.

Handle and Roller of Hardwood Maple, thoroughly Seasoned and Finished.

Horse Attachment

Each Mower is equipped with our Patented Horse Attachment. This can be Adjusted Quickly and in such a manner that in operation the Mower is held to the ground and the disagreeable "tipping up" of the rear of the Mower is impossible. The draft of the Mower is just the same when operated by either horse or hand. With out Attachment the horse can walk in the middle, front or to either side of the mower and yet maintain a central draft at all times.

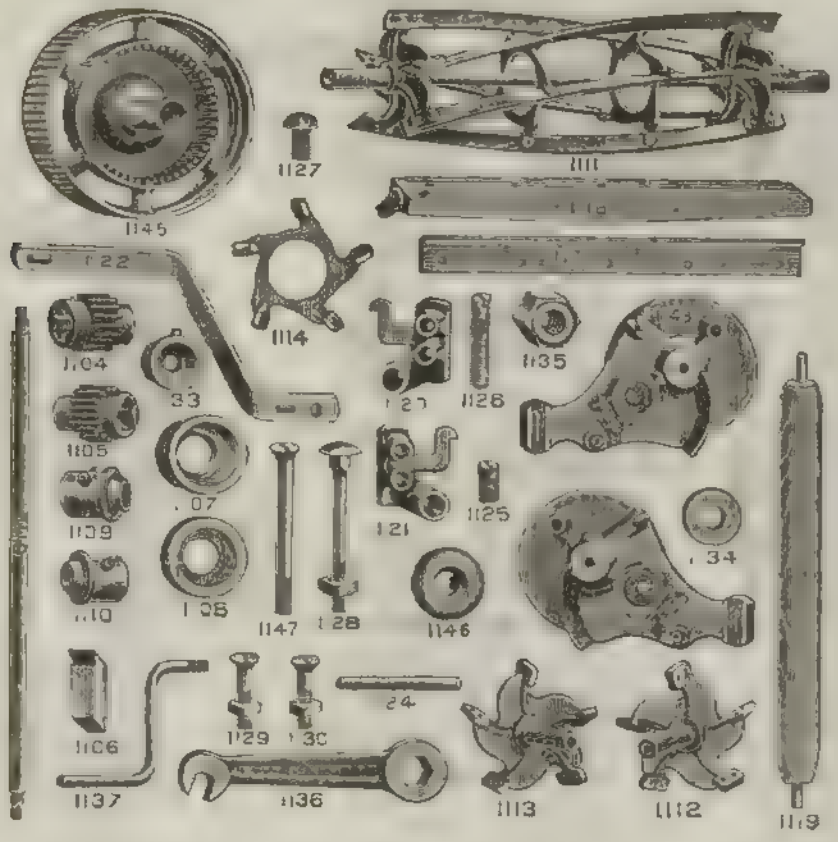
Each

+No. CP30—Width of Cut 30 inches; Extreme Width 37 inches; Weight, boxed, 115 lbs.; Beautifully Finished. Sold on an absolute guarantee to give satisfaction.....**$77.00**

Items Marked + Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Richmond, Ind.

✠LAWN MOWER PARTS

**DIAMOND EDGE*



PRICE LIST OF EXTRAS

Instructions for Ordering

1st—Give Number and Description of Part.

2nd—Always Give Name and Size of Machine

Nos.	Name	Weight	Each	
1101	Same as No. 1143 L. H. Side Plate, w.d. Cup	5½ lbs.	$5 20	
1102	Same as No. 1144 Driving Wheel R. H. Side Plate with Cup	5½ lbs.	5 20	
1103	Same as No. 1142, Driving Wheel with Axle	7 lbs.	3 30	2
1104	L. H. Piston, 1⅝ Inch Hole	5 ozs.	66	50
1105	R. H. Piston, 1⅜ Inch Hole	5 ozs.	66	50
1106	Steel Plate	oz.	14	10
1107	Ball Cup, Without Balls	3 ozs	78	60
1108	Dust Cup for Ball Cup	1 oz.	26	20
1109	L. H. Cone	6 ozs.	1 10	80
1110	R. H. Cone	4 ozs.	1 10	80
1112	L. H. Cylinder Head	19 ozs	3 20	2 40
1113	R. H. Cylinder Head	19 ozs	3 20	2 40
1114	Cylinder Ring	9 ozs.	78	60
1120	L. H. Roller Bracket	7 ozs.	40	30
1121	R. H. Roller Bracket	7 ozs.	40	30
1123	Wood Handle	5¼ lbs.	2 00	1.50

Nos.	Name	Weight	Each	
1124	Steel Pin for Cone, 1⅛x⅞ inch	1 oz	$0 14	0 10
1125	Steel Set Screw for Cone, 5-16x⅝	1 oz	14	10
1126	Set Screw for Bed Plate, 5-16x1¼	1 oz	14	10
1127	Machine Screw for Spiral Base	1 oz	14	10
1128	Bolt for Handle Braces, ¼x3	2 ozs	14	10
1129	Bolt for Cone Bearing, ¼x1⅜	1 oz	09	06
1130	Bolt for Roller Bracket, ¼x1¼	1 oz	08	06
1133	Washer for Bed Plate, ¼	1 oz.	08	06
1134	Washer for Roller or Handle Bolt	1 oz	08	06
1135	Nut for End of Shaft	1 oz.	14	10
1136	Wrench	6 ozs	26	20
1137	Sharpening Crank	4 ozs	20	20
1138	Balls and Retainer for One Cup	2 ozs	78	60
1139	Rivets for Cyl. Knives	1 oz.	08	06
1140	Roller Pins	3 ozs	22	15
1146	Washer for Wheel Bearing	1 oz	.08	06
1147	Bolt for Wheel Bearing ¼x3⅛	2 ozs	26	.20
1148	Steel Stud for Side Plate	7 ozs	1.10	.80

Nos.	Name	15 inch Weight	15 inch Each		17 inch Weight	17 inch Each		19 inch Weight	19 inch Each		21 inch Weight	21 inch Each	
1111	Reel Complete, 5 Knives	7¼ lbs.	$14 30	11 00	8½ lbs.	$15 60	12 00	9 lbs.	$16 90	13 00	11 lbs.	$18 20	14 00
1115	Spiral Base for Reel	9 ozs.	2 10	1 60	10 ozs.	1 40	1 80	12 ozs.	2 60	2 00	1 lb	2 90	2 20
1116	Steel Plate for Cutter Bar	3⅛ lbs.	2 90	2 20	4 lbs.	3 20	2 40	4½ lbs.	3 40	2 60	5¼ lbs.	3 70	2 80
1117	Brace for Cutter Bar	1¾ lbs.	2 00	1 50	1¾ lbs.	2 20	1 70	1¾ lbs.	2 50	1 90	1½ lbs.	2 80	2 10
1118	Shaft	2⅛ lbs.	1 60	1.20	2¼ lbs.	1.90	1.40	2¾ lbs.	2 10	1 60	2⅞ lbs.	2.40	1 80
1119	Wood Roller	1¾ lbs.	1 30	1.00	1½ lbs.	1 50	1.10	1½ lbs.	1 60	1 20	1¾ lbs.	1 70	1.30
1122	Handle Brace	1¼ lbs.	90	70	1⅝ lbs	1 10	80	1½ lbs.	1 20	90	1½ lbs.	1 30	1 00

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Philadelphia, Pa.

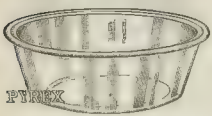
PYREX OVEN-WARE.

TRANSPARENT.

HAS THE NAME ON EVERY PIECE.

Pyrex ware is a serviceable and beautiful transparent glassware useful for either baking or serving. It is clear as crystal, nothing can penetrate its hard surface, it will not chip, bend or dent. Pyrex will not stain nor does it break from oven heat, it retains heat and completes the cooking of food quickly and in a satisfactory manner. Pyrex has a color that is appetizing; the shapes and designs are the latest; owing to the absence of cracks or seams it is easily washed or cleaned and is absolutely sanitary.

UNCOVERED BAKING DISHES. ROUND.



Nos.	464	465	466
Capacity, qts	1	1½	2
Size, inches	2¼x6½	2½x7½	2¾x8¼
Wgt. each, lbs.	1¼	1¾	2
Per dozen	$10.20	12.00	14.40

MUSHROOM DISHES.

Nos.	642	645
Height, inches	5½	7
Diameter tray, inches	6½	7½
Weight each, lbs	1¼	2½
Per dozen	$12.00	16.20

One-twelfth dozen in a carton.

CUSTARD CUPS.

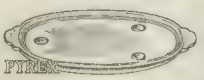
No.	423
Capacity, ounces	4
Size, inches	1¾x3¼
Weight each, lbs	¼
Per dozen	$2.20

RAMEKINS.

No.	442
Capacity, ounces	3½
Size, inches	1¾x2⅝
Weight each, lbs	½
Per dozen	$2.50

Above half-dozen in a carton.

SERVING TRAY.



No.	710
Size, inches	10
Weight each, lbs	1¾
Per dozen	$13.20

Quarter dozen in a carton.

PERCOLATOR TOP.

No.	953
Diameter bottom, inches	2½
Height, inches	1⅞
Weight dozen, lbs	1¾
Per dozen	$1.80

Two dozen in a carton

GIFT SETS.

Per Assortment

No. 1216—Pyrex Gift Assortment consists of the following: 1 only No. 212 bread pan, 1 only No. 202 pie plate, 6 only No. 432 ramekins, 1 only 7-inch egg dish, 1 only 1½-quart casserole, 1 only No. 322 au gratin dish, all put up in a neat attractive box; weight per assortment, 13½ lbs. . . . **$6.00**

No. 1216E—Pyrex Gift Assortment; same as No. 1216, except it is engraved. **12.00**

One assortment in a carton.

ENGRAVED. ASSORTMENT.

Casseroles Not Illustrated.

The engraved Pyrex assortment consists of 18 pieces regular Pyrex transparent glassware beautifully engraved with a fern design.

Pyrex glassware will not stain or break from oven heat, is absolutely sanitary and can be used for either baking or serving.

The assortment consists of the following:

2 only No. 168 Round Casseroles.	2 only No. 155 Pudding Pan.
1 only No. 167 Round Casserole.	2 only No. 201 Pie Plates.
1 only No. 194 Oval Casserole.	2 only No. 231 Utility Pans.
1 only No. 193 Oval Casserole.	1 only No. 322 Oval Dish.
	6 only No. 422 Custard Cups.

Per Assortment

No. 18E—Engraved Pyrex Assortment; consists of 18 pieces engraved Pyrex ware as listed above **$43.55**

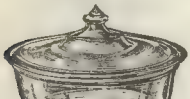
PYREX OVEN-WARE.

TRANSPARENT.

HAS THE NAME ON EVERY PIECE.

Pyrex ware is a serviceable and beautiful transparent glassware useful for either baking or serving. It is clear as crystal, nothing can penetrate its hard surface, it will not chip, bend or dent. Pyrex will not stain nor does it break from oven heat, it retains heat and completes the cooking of food quickly and in a satisfactory manner. Pyrex has a color that is appetizing; the shapes and designs are the latest, owing to the absence of cracks or seams it is easily washed or cleaned and is absolutely sanitary.

CASSEROLES.



ROUND, DEEP.

Nos.	102	101	100
Capacity, quarts	1½	2	2½
Depth, inches	2½	3	3¼
Width top, inches	7¾	8¼	9
Weight each, lbs	2½	3¼	4
Per dozen	$21.00	24.00	30.00

One-twelfth dozen in a carton.

ROUND, SHALLOW.

No.	112
Capacity, quarts	1
Depth, inches	2¼
Width top, inches	7¼
Weight each, lbs	2
Per dozen	$18.00

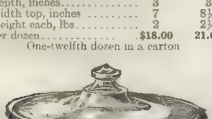
One-sixth dozen in a carton.

ROUND.

All Below Fit Standard Mountings.

Nos.	167	168
Capacity, quarts	1	1½
Depth, inches	3	3
Width top, inches	7	8¼
Weight each, lbs	2	2½
Per dozen	$18.00	21.00

One-twelfth dozen in a carton



OVAL.

No.	193	194
Capacity, quarts	1	2
Size, inches	2⅝x5½x7¼	3½x6¼x8¾
Weight each, lbs	2	3
Per dozen	$18.00	24.00

One-twelfth dozen in a carton.

DEEP.

No.	197
Capacity, quarts	1½
Size, inches	3⅜x5½x7½
Per dozen	$21.00

One in a carton.

SHALLOW.

No.	183	184
Capacity, quarts	1	1½
Size, inches	2⅛x6¼x9¼	2¼x6¼x9¾
Weight each, lbs	2	2½
Per dozen	$18.00	21.00

One in a carton.

BEAN POTS.

ROUND.

Nos.	502	504
Capacity, pints	1	2
Depth, inches	3¼	4¼
Weight each, lbs	¾	2
Per dozen	$13.20	24.00

Sixth dozen in a carton.

BREAD PANS.

Nos.	212	214
Depth, inches	2¾	3
Length, inches	8½	10
Width, inches	4½	5
Weight each, lbs	1¾	2½
Per dozen	$10.80	21.00

212, quarter dozen in a carton.
214, one in a carton.

Nos.	231	232
Depth, inches	1¾	1¾
Length, inches	10	12
Width, inches	6	7½
Weight each, lbs	2	3
Per dozen	$13.20	21.00

231, quarter dozen in a carton.
232, one in a carton.

CAKE PANS.

No.	221
Depth, inches	1¼
Diam. top, inches	9
Weight each, lbs	1½
Per dozen	$9.00

Quarter-dozen in a carton

PIE PLATES.

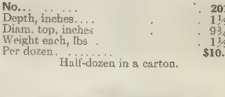
NARROW RIM.

Nos.	202	203
Depth, inches	1¼	1½
Diam. top, inches	9	9¾
Weight each, lbs	1½	1¾
Per dozen	$9.00	10.80

WIDE RIM.

No.	201
Depth, inches	1¼
Diam. top, inches	9¾
Weight each, lbs	1½
Per dozen	$10.80

Half-dozen in a carton.



SIX SIDED.

No.	1203
Size, inches	9
Depth, inches	1¾
Weight, each	1¾
Per dozen	$12.00

Half-dozen in a carton.

PUDDING DISHES.

DEEP.

Nos.	122	121
Capacity, quarts	1½	2
Depth, inches	2⅞	3
Width top, inches	7¾	8¼
Weight each, lbs	1¾	2
Per dozen	$12.00	14.40

Quarter-dozen in a carton.

SHALLOW.

No.	155
Capacity, quarts	1½
Depth, inches	2
Width top, inches	7¾
Weight each, lbs	1½
Per dozen	$12.00

Quarter-dozen in a carton.

FISHERMEN AND HUNTERS HEAD LAMPS

NOTE—These Lamps are Especially Adapted to the Uses of Hunters and Fishermen. The Reflectors Throw a Very Strong Light that Penetrates to a Great Distance, Making them Invaluable for Coon and Deer Hunting and for Night Fishing and Spearing. Also Suitable for Use in Camps, Stables, etc. They Use Ordinary Kerosene Oil; are Adjustable to any Size Head and are Light and Comfortable to Carry.

Star

STAR

Per Dozen

No. S1—All Bright Tin; Concave Semi-circular Reflector; Two Removable Round Tube Tin Burners, Using Cotton Rope Wicking; Size 7¾ inches Wide, 7¼ inches High; Weight per Dozen 7 lbs **$12 00**

One Dozen in a Carton

SAMBO

Per Dozen

No. S2—All Bright Tin; Hood Reflector with Mirror Back; One Adjustable Brass Burner, Using Flat Cotton Wick; Coppered Steel Wire Carrying Handle; Size 8½ inches Wide, 11 inches High; Weight per Dozen 9 lbs..... **$18.00**

Loose

Sambo

COLUMBIA JACK LAMP AND GENERATOR

For Hunters, Fishermen, Miners and Sportsmen

Throws a Powerful White Light: Invaluable for Hunting Coon, Possum and other Nocturnal Animals.

Per Dozen Sets

No. C3—Generator 5½ in. Long, 2 in. in Diameter; Weight 16 ozs. (Carbide capacity enough to run the Lamp 5½ hours.) Made of Brass, Gun Metal Finish; attaches to any width Cartridge Belt up to 2 in. Headlight, Wt. 6 oz.; powerful Parabolic Reflector, Dia. Face 2¾ in.; Straps to Front of Hat; is connected to Generator by Rubber Tubing; Weight complete per Doz. 23 lbs..... **$108.00**

Twelfth Dozen in a Box

FROG LANTERNS

★NORLEIGH DIAMOND

Burns Signal Oil

Heavy IX AA Quality Redipped Charcoal Tin; No. 1 Long Cone Brass Burner with ⅝ inch Wick Inserted; Bright Tin Hood, 9 inches Diameter, 6 inches Deep with 5 inch **Silvered Glass Reflector**; No. 0 Clear Glass Globe.

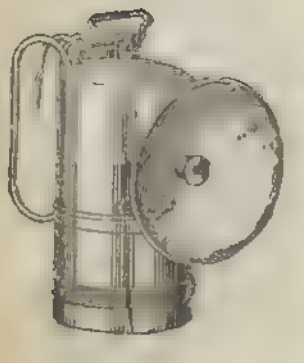
Per Dozen

No. C—Height 15 in.; Diameter of Base 7 in.; Heavy Wire Bail 5 in. High; Japanned Brass Handle; Galvanized Steel Plate for 24 Hours Burning; Weight per Dozen 64 lbs.. **$28.00**

Half Dozen in a Case

CAMPERS LAMPS

ACETYLENE GAS



It's Trouble-Proof

Per Dozen

No. 160—Brass, Highly Polished and Nickel Plated Finish, Equipped with Hinged Handles and Hook, and Detachable Brass Reflector, Self Lighting Wind Shield Attachment, New Water Feed to Burner, Steady Flame and an Extra Container, Height 5½ inches, Diameter 2¼ inches; Weight per Dozen 12 lbs **$45.00**

Twelfth Dozen in a Wooden Box

CAMP LAMP

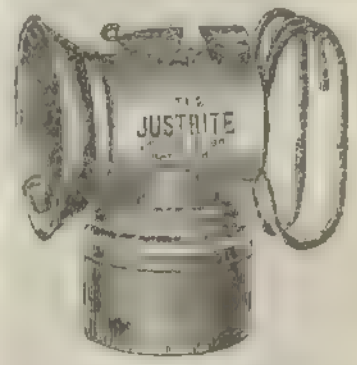
Per Dozen

No. 29S—Polished Brass with Nickel Plated Finish, Complete with 2¼ inch Nickel Plated Reflector, Equipped with Hook and Handles; Height over all 3⅜ ins. Diameter 2 ins. Burns Three Hours with one Filling; Weght per Dozen 5¼ lbs.....**$18.00**

Twelfth Dozen in a Wooden Box

JUSTRITE

With New Style Matchless Lighting Attachment

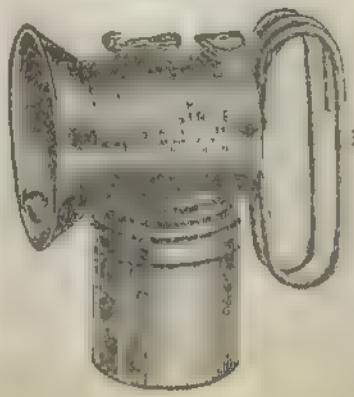


Small Size—Hand

Per Dozen

No. 100—Drawn Brass; Nickel Plated and Highly Polished; 2 inches Nickel Plated Reflector with Sparker Attachment; equipped with Folding Handles and Hook [illegible] Pocket Carbide, [illegible] Extra Repair parts; [illegible] inches; Diameter 2 inches; Burns 3 Hours with One Filling; Weight per Dozen 5 lbs..... **$48 00**

Twelfth Dozen in a [illegible]



Large Size Hand

Per Dozen

No. 95—Drawn Brass; Nickel Plated and Highly Polished 3 inch Nickel Plated Reflector with Sparker Attachment; equipped with Large Hook and Folding Handles also No. 76 Pocket Carbide Can; Burns 5 Hours with One Filling; Height 4 inches; Diameter 2¼ inches; Weight per Dozen 7 lbs... **$60 00**

Twelfth Dozen in a Wooden Box

FISHING TACKLE

BASS-ORENO BAITS

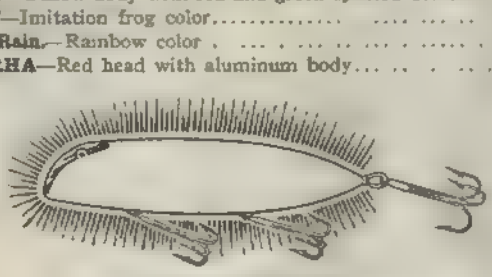
This bait possesses the combined merits of all baits known as the wobbler type. It is a combination of the under-water and surface type. It floats when not in motion. The instant it is reeled, however, it dives, zig-zags, and darts in a very minnow-like course. The faster it is reeled the deeper it travels. The body of this bait is 3½ inches long, weighs ⅝ oz. High grade enamel guaranteed not to crack.

Bass-Oreno Assortment No. 373

This assortment as shown above contains two each of the following numbers: 973RH 973W, 973Y, 973F, 973 Rainbow, 973RHA. Each $12.00

Bass-Oreno Baits Not Mounted on Card

	Per Doz
No. 973RH—Red head and white body	$12.00
No. 973W—White body with red and green spotted decorations.	12.00
No. 973Y—Yellow body with red and green spotted decorations.	12.00
No. 973F—Imitation frog color	12.00
No. 973 Rain.—Rainbow color	12.00
No. 973RHA—Red head with aluminum body	12.00



Bass-Oreno Luminous

	Per Doz.
No. 973 Lum.—Same bait as described above except luminous for cloudy weather or night fishing	$12.00

Surf-Oreno Baits

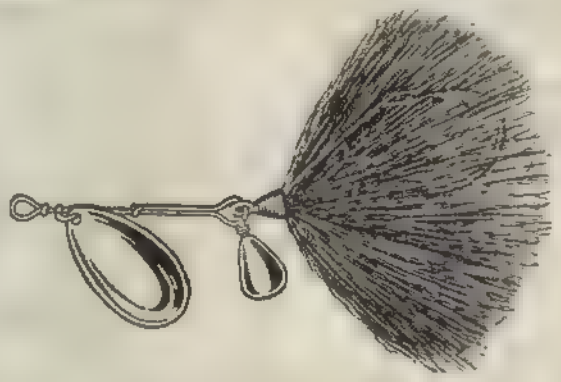
This bait is made of special light wood body is 3⅝ inches long. Floats at all times, rides high in the water and is the best surface bait made

	Per Doz.
No. 963RH—Red head and white body	$12.00
No. 963 Rain.—Rainbow color	12.00
No. 963W—White body with red and green spotted decorations.	12.00

BUCKTAIL SPINNER HOOKS

The spinner is of proper gauge metal to retain its shape, durability and perfect spinning qualities. Hook is 5/0 Carlisle hollow point type, body weighted.

	Per Doz
No. 585W—Red Bucktail	$8.00
No. 585W—White Bucktail	8.00
No. 585W—Natural Bucktail	8.00



Weedless Spoon Bucktail Bass Flies

This bait is equipped with a 5/0 weedless hook, No. 9 dipsey swivel sinker that can easily be removed, and a No. 3 nickel spoon.

	Per Doz.
No. 1545AL—Red Bucktail	$8.80
No. 1545AL—White Bucktail	8.80
No. 1545AL—Natural Bucktail	8.80

NICKEL SPOONS

Chart **Single** **Tandem**

These spoons are carefully designed and constructed; they are built substantially and will withstand the most severe service. All spoons are made of brass, nickel plated and highly polished. Mounted with a clevis and beads on piano wire. The Chart shows exact sizes of all spoon blades

	Per Doz.
Single Spoons: No. 0—½" long. **No. 1**—⅝" long; **No. 2**—⅞" long; **No. 3**—1⅛" long. **No. 4**—1⅜" long	$2.40
Tandem Spoons: No. 0T—½" long. **No. 1T**—⅝" long; **No. 2T**—⅞" long; **No. 3T**—1⅛" long; **No. 4T**—1⅜" long	4.00

The Fitchburg Lathe, 24 Inches Swing

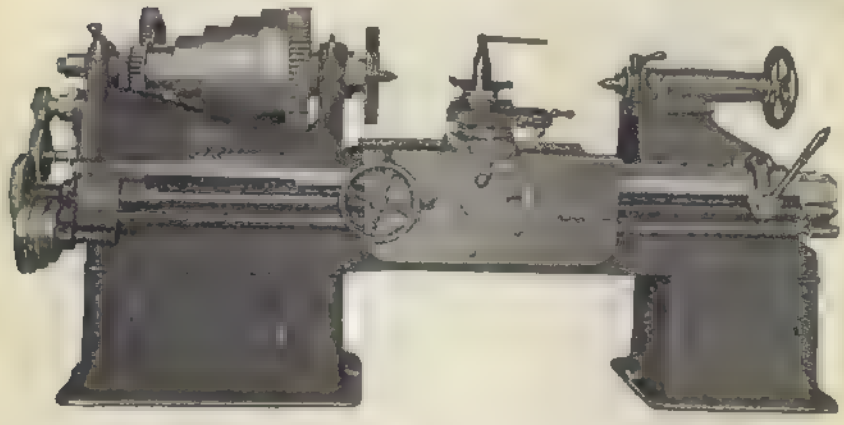


Fig 1555

Engine Lathe, 24 inches swing, bed 10 feet long

This screw cutting engine lathe represented in our New 24 inch swing engine lathe with compound rest carriages swing over carriage 15½ inches

Bed 12 feet long, there are 7 feet 4 inches between centers, has cross ribs the whole length and connecting the inner rails. Bed can be furnished any length desired. Beds 16 feet and longer are furnished with center legs and rod and screw supports.

Spindle has 1¾ inch hole through its entire length is made of hammered high grade steel and runs in bronze boxes.

Cone has 5 steps, largest diameter 16" inches for 3 inch belt, back geared 11½ to 1, giving 10 uniform changes of speed, ranging from 3 to 240 revolutions per minute

Feeds provided are power longitudinal and cross. Chapman patent feed used, which gives roughing and finishing cuts without removing gears and makes lead screw entirely independent. Lead screw never revolves, except for screw cutting. A locking device prevents the lead screw nut from being locked and the feed thrown in at the same time

Furnished with face and small face plates, stationary and traverse rests, extra side block for turning pulley, oil cups, large gears with swing over ways, full set screw gears, attachment to take out the moving gear forward and back or ways quickly and with ease, compound rest and friction pulleys, wrenches, etc

All bearing surfaces are large and carefully hand-scraped to a bearing

Countershaft pulleys 16 inches diameter, 4 inches face, should make 90 revolutions per minute

Weight 6,000 pounds. Can be furnished with taper attachment at extra cost

Lathes

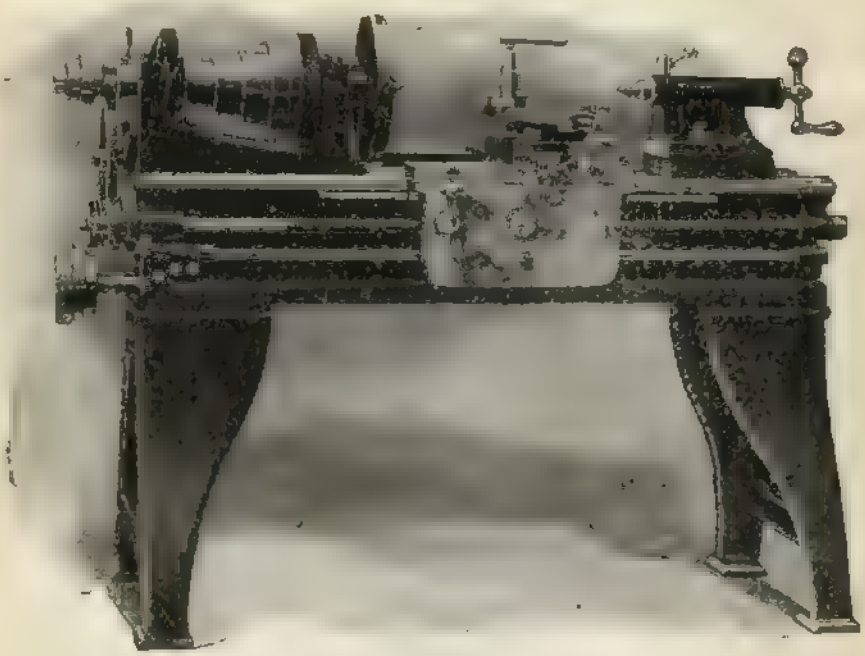


Fig 1556

16-Inch Engine Lathe

Modern, practical, high-grade, low price

This lathe is of the latest and most approved design The workmanship, material and finish are of the highest order throughout It is in fact a modern practicable high-grade tool at a low price All parts are heavy and substantial, the fittings are accurate and the appliances convenient

This lathe is provided with both screw and rod feeds as well as with power cross feed which is graduated Either plain or compound rest will be furnished also gears to cut all standard threads from 5 to 36, steady and follower rests, large and small face plates and friction countershaft go with each lathe

Dimensions Etc

Swings over bed, 15 inches swings over carriage 9½ inches, length of bed, 6 feet, takes between centers, 40 inches front bearing, 2⅞ inches diameter x 3½ inches long, hole through spindle, 1⅛ inches

Cones are 8, 6½, 5 and 3½ inches in diamater, pulleys on countershaft 9 x 3 inches. Speed 190

We can furnish any length of bed up to 12 feet long

Taper attachment, $30 00 extra

Set of 10 metal turning tools, ground and sharpened, ready for use $5 00

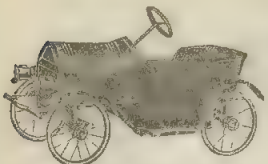
Hand rest, $3 50 extra Extra gears, $1 75 each weight 1200 pounds

JUVENILE AUTOMOBILES

Prices Do Not Include Lamps Except Where So Stated

*NORLEIGH DIAMOND

Pneumatic Tires



Body 14½x40½ inches; French Motor Gas, Series 1 with Blacks, Decorated with Black Nickel Plated Trimmings on Bonnet and Radiator; Upholstered Seat; Inside Self Starter; with Bumper, Black Crown Fenders, Wood Rim Steering Wheel.

Wheels—14x1¾ inch Pneumatic Tires; Roller Bearings; Black Enameled; with Nickel Plated Hub Caps.

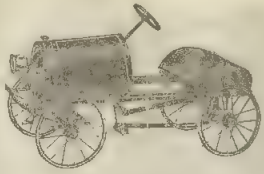
Gear—Knuckle Joint Auto; Black Enameled.

Each

No. 75—Without Lamps or Horn; Weight 90 lbs **$48 00**

One in a Crate

* KING



Body—13x39 inches; Orange Enamel with Black Stripes; Black Enameled Steering Wheel; with Starting Crank and Bumper.

Wheels 12x1¾ inch Rubber Tires, Roller Bearings; Black Enameled.

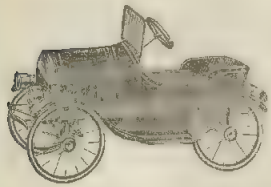
Gear—Knuckle Joint Auto; Black Enameled.

Each

No. 35—Without Lamps or Horn; Weight 45 lbs..... **$13 50**

One in a Crate

* RUGBY



Body—14½x40½ inches; Dark Cherry Red, Striped with White; Decorated with Gold Bronze; Nickel Plated Trimmings on Bonnet and Radiator; Upholstered Seat; Inside Self Starter; Nickel Plated Steering Wheel; with Bumper.

Wheels 14x1¾ inch Rubber Tires; Roller Bearings; Black Enameled; with Nickel Plated Hub Caps.

Gear—Knuckle Joint Auto; Black Enameled.

Windshield—Adjustable, with Nickel Plated Frame.

Each

No. 55—Complete with Lamps and Horn; Weight 85 lbs..... **$40 00**

One in a Crate

* MOGUL

Body—12x31 inches; Auto Red, Striped with Sulpho Yellow; Black Enameled Steering Wheel; with Starting Crank and Bumper.

Wheels 10x3¼ inch Rubber Tires; Roller Bearings, Black Enameled.

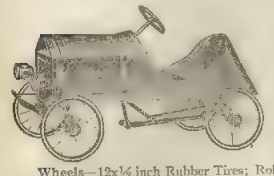
Gear—Knuckle Joint Auto; Black Enameled.

Each

No. 30—Without Lamps or Horn; Weight 35 lbs..... **$12.00**

One in a Crate

* SUBWAY



Body 13x40 inches Chrome Yellow, Striped with Black, Decorated with Gold Bronze; Black Radiator Front; Nickel Plated Trimmings on Bonnet and Radiator; Upholstered Seat and Back; Inside Self Starter; Nickel Plated Steering Wheel; with Bumper.

Wheels—12x1¾ inch Rubber Tires; Roller Bearings; Chrome Yellow Enameled; Nickel Plated Hub Caps.

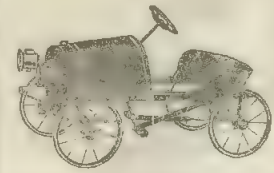
Gear—Knuckle Joint Auto; Black Enameled.

Each

No. 45—Without Lamps or Horn; Weight 65 lbs..... **$33 00**

One in a Crate

* RACER



Body—12x30 inches; Spartan Red, Striped with Lemon Yellow, Decorated with Gold Bronze, Black Enameled Steering Wheel; with Starting Crank and Bumper.

Wheels—10x3¼ inch Rubber Tires; Roller Bearings; Black Enameled

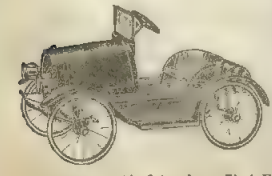
Gear Knuckle Joint Auto; Black Enameled.

Each

No. 25—Without Lamps or Horn; Weight 30 lbs..... **$10 00**

One in a Crate

* SPEEDER



Body—13x39 inches; Yale Blue; White Stripes; Decorated with White; Red Gas Tank; Black Enameled Crown Fenders; Black Enameled Steering Wheel; with Starting Crank and Bumper.

Wheels—12x1¾ inch Rubber Tires; Roller Bearings; Black Enameled; Nickel Plated Hub Caps.

Gear—Knuckle Joint Auto; Black Enameled.

Windshield—Adjustable; with Nickel Plated Frame.

Each

No. 40—Without Lamps or Horn; Weight 65 lbs..... **$20.00**

One in a Crate

* FLIVER

Body—12x30 inches; Chrome Green, Striped with Lemon Yellow, Decorated with Gold Bronze; Black Enameled Steering Wheel; with Starting Crank and Bumper.

Wheels—10x3¼ inch Rubber Tires; Roller Bearings; Black Enameled.

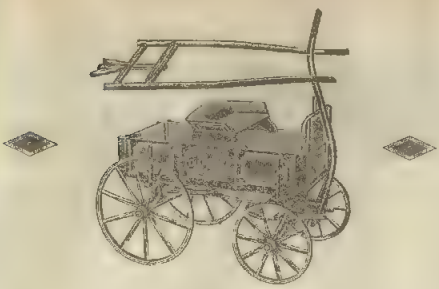
Gear—Knuckle Joint Auto; Black Enameled.

Each

No. 20—Weight 35 lbs **$16 50**

One in a Crate

BOYS FARM WAGONS



★DIAMOND

This wagon is modeled closely after a regular farm wagon and can be used around the yard, shop or store for general purposes; made of Hardwood throughout and is very Strong and Substantial.

Bed 5¾ in. Deep; 18 in. Wide; 36 in. Long; Dash Board 11¾ inches High; Sides, Dash and End Gates ⅛ in. Thick; Bottom ¾ in. Thick; Extra Heavy Seat, rises 14 inches above Bottom of Bed; Sides and End Gates or entire Body Removable; extra long Coupling Pin, permits of adjusting length of wagon; curved hardwood Tongue, ⅞x1 inch with cross pin; Tongue may be removed and shafts for Dog or Goat may be attached; Diameter of Rear Wheels 21 inches; Front Wheels 14 inches; Wood Wheels with Metal Bound Hub; Steel Tires on Front and Rear Wheels ¾ inch Wide.

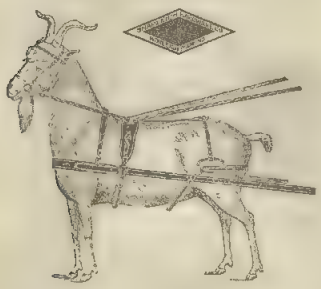
Finish Gears painted Red, Striped and Black; Body and Seat Green, Striped with Yellow. Each

No. D355 Diamond Farm Wagon. Weight 55 lbs. **$11.00**

No. D355S Shafts for Diamond Farm Wagon, painted Red; Weight each 6 lbs. 1.50

One in a Crate

GOAT HARNESS



★NORLEIGH DIAMOND

For Use on Diamond Farm Wagons

Belly Band—⅝ inch Single Strap.

Breast Collar—1¼ inch Flat; Single Strap.

Breeching—⅝ inch Single Strap Body; ¾ inch Hold Back Straps; ½ inch Hip Straps; 1 inch Breeching Seat, 1½ inch Breeching Stay.

Bridle—Open; ½ inch Straps.

Lines—½ inch All Through, to Snap in Bit.

Saddle—2¼ inch Single Strap.

Shaft Tugs—⅝ inch Double and Riveted.

Traces—1 inch; Single Strap.

Per Set

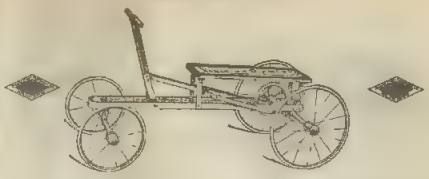
No. GR —**Russet**; Smooth Finish Throughout; Lock Stitch Sewed and Riveted; Tinned Buckles and Snaps. $8.00

No. GB—**Black**; Smooth Finish Throughout; Lock Stitch Sewed and Riveted; Tinned Buckles and Snaps. 8.00

One Set in a Box; Weight 2½ lbs.

HAND CARS

★NORLEIGH DIAMOND



In our Norleigh Diamond Hand Cars we have embodied all essential features in an Article of this nature—Strength, Light Weight, Minimum Number of Parts and Ease in Running.

It is constructed entirely of Wrought Steel and Malleable Castings except the Seat Board, which is of Hard Wood, firmly Bolted to the Frame.

All Parts are either Bolted or assembled with Cotter Pins, so that the Car may be easily set up or knocked down for transportation.

While the Gearing is of a High Ratio to insure speed, a minimum amount of Power is required to operate owing to the Ingenious System of Levers, the Driving Rod being connected low down on the Lever Handle so as to insure ease in Operating.

Frame and Driving Mechanism Finished in Green.

Wheels and Handle Finished in Vermilion.

Seat Board Finished in Vermilion, Black and Gold, Gloss Varnished

Wheels are constructed with Extra Large Barrel Hubs with Outer Bearings; Ten Gauge Spokes are used instead of Fourteen Gauge, as our ordinary Hand Cars

Rubber Tires are thoroughly shrunk on to prevent opening up at Joints.

Extra Large Steel Axles—Steel Tubing Handle; Wrought Steel Fifth Wheel with Extra Heavy Braces—Large Brass Plated Steel Automobile Hub Caps—Gearing Riveted in two places to each Side Bar of Frame instead of only One Side as on ordinary Cars.

Note—Our object in bringing out the Norleigh-Diamond Hand Car was to have a Companion for our Norleigh Diamond Boys' Steel Wagon, a Car possessing distinctive Features and without the faults possessed by the old style Cars. In this we have succeeded and feel sure that no better like Article can be purchased for the money. Everything in its Construction is of Best Quality, made by Skilled Mechanics and built to stand hard knocks.

Each

No. ND7—Junior; Length of Frame 26½ inches, made of ⅛x1¼ inch Flat Steel; Seat Board 14x7x¾ inch; Wheels Front 6 inch, Rear 10 inch; Fitted with ⅝ inch Rubber Tires; Plain Hubs... **$6.80**

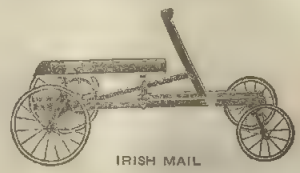
Two in a Crate; Weight Crated 50 lbs.

No. ND8—Medium; Length of Frame 35½ inches, made of 1⅛x⅛ inch Flat Steel; Seat Board 20x8x¾ inch; Wheels, Front 8 inch, Rear 12 inch; Fitted with ½ inch Rubber Tires; Brass Plated Steel Hub Caps..... 9 50

Two in a Crate; Weight Crated 68 lbs.

No. ND9—Large; Length of Frame 36½ inches, made of 1¼x¼ Ninch Flat Steel; Seat Board 20x8x¾ inch; Wheels, Front 10 inch, Rear 14 inch; Fitted with ½ inch Rubber Tires; Brass Plated Steel Hub Caps..... 10 00

Two in a Crate; Weight Crated 68 lbs.



IRISH MAIL

A Practical, Well Constructed Car

Hickory Wood Work, Length of Reaches or Long Parallel Bars 36 inches; Handles and Reaches Painted Two Coats Red, and One Finish Coat with Two Black Stripes; 20½ inch Seat Painted with Two Prime Coats of Green and One Finish Coat; Steel Running Gear Painted Jet Black; 7½ inch Front Wheels; 11 inch Rear Wheels, Tinned; Tangent Spokes; ½ inch Rubber Tires; 9-16 inch Square Steel Front Axle Machine Turned; ⅝ inch Cold Rolled Steel Rear Axle.

Each

No. 10—Weight Each 22 lbs..... **$10.00**

Two in a Crate

FLY SHAKE.

HORSE HEAD BRAND.

FOR SPRAYING ALL KINDS OF LIVE STOCK.

Fly Shake and Stock Dip sold in lithographed cans containing full directions on each can.

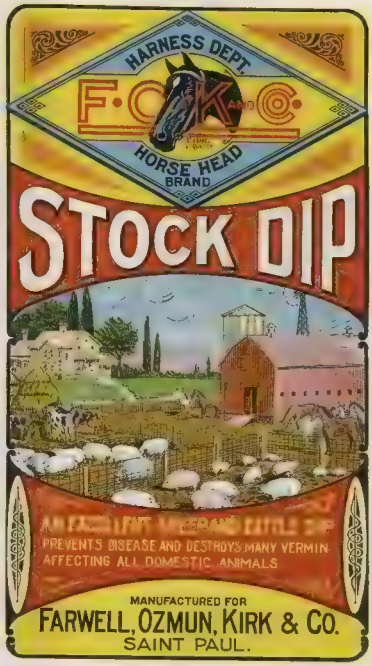
½ gallon, 1 dozen in a carton
1 gallon, ½ dozen in a carton

or in 2, 3, 5 or 10 gallon wood jacket cans, or in ½ barrels or barrels.

STOCK DIP. 4520A

HORSE HEAD BRAND.

AN EFFECTIVE NON-POISONOUS STOCK DIP, DISINFECTANT AND DEODORANT.



For prices and description see page 4520.

HARNESS AND NEATSFOOT OIL.

HORSE HEAD BRAND.

HORSEHEAD HARNESS OIL.

It is a well known fact that harness kept reasonably clean and occasionally oiled will give much better service than harness which is neglected in this respect Any leather exposed to wear and weather will gradually lose its pliability and wearing qualities unless occasionally oiled

Before oiling a harness it should always be washed with warm water and good soap which does not contain alkali. Our F. O. K. Soap Dressing is an excellent article for this purpose. Any good Castile Soap or first quality Auto soap can be used with good results.

After thoroughly washing and cleaning the harness it should be allowed to become almost but not quite dry before applying the oil. Oil will penetrate leather that is slightly damp much better than if dry. If the oil is to be applied with the hands or cloth it should be thoroughly rubbed in and afterwards carefully dried

Harness should not be exposed to the sun to dry after being oiled but kept in a moderately warm place until the oil is thoroughly soaked into the leather so that it will not rub off on the hands

After oiling it is always a good plan to apply some good harness dressing to restore the finish as it also helps to retain the softness and pliability of the leather F O K Harness Dressing is a good article for this purpose and has been manufactured and sold under a manufacturer's name for many years.

We are prepared to furnish various grades of Harness Oil to suit all requirements and in quantities suitable for convenient use by retailer or consumer. Dealers may find it to their advantage to buy a quantity of Harness Oil in steel drums which we furnish complete with the faucet ready to draw off. This prevents waste and gives the customer the oil at a very moderate price as the expense of the cans and cases is eliminated

Oil sold in wooden barrels is a little cheaper than in steel drums. All shipments of oil in containers holding over ten gallons will be shipped direct the day after the order is received. Enter such orders on separate sheets. Less quantities can be shipped with other goods as ordered. None of our various grades of Harness Oil contain any ingredients which will injure leather

For prices and further description, see page 4521.

The Celebrated Foley and Williams Highest Grade Pianos

Strictly the Highest Grade throughout at prices of medium grade—Remarkable Values

STYLE 24

88 Note Player Concert Grand

This Player Piano represents the best in players with metal tubing being fitted with the famous Standard Pneumatic action.

Description

Made of carefully selected veneer; double veneered inside and out; hand-polished; duet extension music desk; rolling fallboard; continuous hinges, levers, pedals and other metal parts used inside and out are made of highly polished nickel plate; full composite bell metal frame; acoustic grooved sound-board; pin block of seven-ply hard rock maple, cross banded, warranted to withstand any climatic changes; three strings; overstrung bass; full copper-wound bass strings; double repeating, quick responsive action; patent brass flanges; tuning pins bushed with hard white maple; highly finished hammer rail; best quality felt hammers; empire top; genuine ivory keys; 7 1-3 octaves.

Player Action

Standard Pneumatic, which plays 88 notes or entire keyboard of the piano. Uses all standard music rolls whether with pin or socket ends. Has solid brass music roll flanges recessed out to receive edges of music sheet when swollen by dampness. This prevents the tearing or wearing of the edges of the sheet. All the metal parts of the player are solid brass.

The entire player mechanism is made of solid mahogany thoroughly dried and then preserved, and made permanently air tight by the forcing of chemical solutions into the parts of the wood.

The tubing (air ducts) is made of METAL instead of rubber used in other makes. These metal tubings are connected from tracker to primary action in an ingenious manner, fully covered by patents, and it is impossible for them to ever become loose.

The valve system, the heart of the player, is so constructed that it is self-adjusting to all conditions that can arise, and this fruitful cause of repairs in other players is entirely absent from ours.

Has the wonderful "Soloist" attachment, controlling the bass and treble sections of the piano either individually, altogether, or in any desired combination, giving the performer control over the accompaniment, no matter in what part of the scale it may come or how many notes it may include.

Height, 4 feet 7½ inches; width, 5 feet 2 inches; depth, 2 feet 4½ inches. Fully guaranteed.

Mahogany, Oak. Weight boxed, about 900 lbs.

Style 24—88 Note Player with Player Bench and Ten (10) Rolls of Music. Price.....$950.00

STYLE 26-B

CONCERT GRAND—7 1-3 OCTAVES

THE FINEST PIANO THAT MONEY AND SKILL CAN PRODUCE

The Case

This instrument is a genuine work of art and will add to the beauty of any home. Its massiveness is impressive and stately, while its richness is typified by its beautiful hand-carved truss and pilaster caps; by its heavy round corners on the sides, surmounted with appropriate cornice mouldings, and by its harmonious outline in general. Nothing but the choicest, selected veneers of Walnut or Mahogany of superb coloring are used, and the pilasters' trusses and heavy mouldings are veneered to match, as also are the three-inch arms and the toe-blocks, which are made of built-up (laminated) stock. The whole instrument is both time and wear-enduring, inside veneered in White Maple. Equipped with Empire top and "Grand" hinges.

Back and Frame

Construction is extremely strong and massive. Has six heavy, straight grained hardwood posts specially tapered. Ribs and sounding board of choicest spruce thoroughly air-seasoned and kiln dried, the latter being properly crowned to sustain power and pressure of strings to give tone quality; bridges, acoustic rims, pin block and key-bottom of laminated (built-up) stock, consisting of numerous layers of Rock Maple glued up with grains running at right angles to each other.

Interior

Full plate of bell metal thoroughly bronzed, beautifully finished; bushed tuning pins; fourteen pound hammers; selected ivory keys; triple repeating brass flange action; copper wound bass strings of best German quality; music wire best imported stock, absolutely noiseless metal trap-work, three pedals, full over-strung scale, seven and one-third octaves. Has a powerful rich and sonorous tone of great sweetness. The touch is perfect—very light and responsive.

Warranted for ten years. Height, 4 feet 9¾ inches, width, 5 feet 3 inches, depth, 2 feet 3½ inches. Weight boxed, about 900 pounds.

Style 26-B Concert Grand Piano with Bench and Scarf, Price.....$625.00

VIOLINS

These Violins quoted are guaranteed exactly as represented. They are exceptional good value and at prices quoted we know you will be perfectly satisfied that the intrinsic value is represented in article. We will be glad to entertain your valued order and should instrument not come up to your fullest expectation you are at liberty to return for credit

ANNOUNCEMENT

Owing to War conditions, in which connection, there are no Violoncello instruments to be had, we have refrained from advertising same. We believe this course exemplifies our policy in endeavoring to advertise only such merchandise which we are assured we can market.

However, conditions may improve, and in such an event, make known your wants to us, that we may serve you and save you money on your purchase. In cases of this kind, our policy will be to turn the merchandise over at a slight advance above factory cost, which in all instances will be lower than regular Wholesale selling prices.

Prompt shipments. Securely packed. Breakage entirely eliminated.

Prices quoted do not include bows. Bows quoted on following pages.

ANNOUNCEMENT

Make known your wants in Musical Articles not illustrated and quoted in catalog, as we have a limited stock on hand, hardly sufficient to warrant us cataloging same. But your wants may be in our stock and in such an event, we can save you money. Let us hear from you. Inquiries courteously and promptly attended to.

FRENCH VIOLINS

No.		Each
9819	Stradivarius Model, dark red varnish, beech back and sides	$20.20
901	Stradivarius Model, dark amber color, rosewood pegs, good model and finish	16 40
9820	Stradivarius Model, medium brown color, slightly shaded, full ebony trimmed	18 20
902	Stradivarius Model, reddish brown color, no shading, highly finished, rosewood pegs	18 60
903	Stradivarius Model, dark amber color, highly polished, rosewood pegs	23 20
904	Stradivarius Model, dark amber color highly polished, flamed maple back and sides, rosewood pegs, ebony finger-board and tail-piece	37.20
906	Amati Model, amber color very highly polished, back of flamed maple in one piece, sides and neck flamed maple, ebony finger-board and tail-piece, rosewood pegs	39 20
908	Stradivarius Model, amber color, very highly polished, back, sides and neck flamed maple, ebony finger-board and tail-piece, rosewood pegs	46.80

IMPERIAL VIOLINS

The Imperial line of Violins which we describe below are noted for the excellent quality of their tone and workmanship. The grade of flamed maple used in the higher-priced styles is seldom found in instruments of their price. At the prices, these goods are the best values that have ever been offered to the trade.

No.		Each
998	Stradivarius Model, medium red color, smooth, dull finish	$11.00
9698	Stradivarius Model, reddish brown color, hardwood back, smooth finish	13 00
999	Stradivarius Model, dark reddish brown color, high gloss finish, hardwood back	13 60
9799	Stradivarius Model, rich brown color, gloss finish, inlaid purfling in edges, ebony finger-board and tail-piece	17 20
97100	Stradivarius Model rich reddish brown color, highly polished full ebony trimmed Very good model and full loud tone of good quality	19 60
97101	Stradivarius Model, rich red color fine quality varnish, very highly finished, flamed back, sides and neck, full ebony trimmed	25 00
9102	Stradivarius Model nut brown color, nicely flamed back and neck, ebony pegs and finger-board	27 80
9103	Stradivarius Model, French School, rich red shaded highly polished, finely flamed maple neck and back, French model ebony pegs, ebony tail-piece and finger-board	31 80
9104	Stradivarius Model, rich brown shaded, highly polished, back, sides and neck of beautiful flamed maple, French model ebony pegs, full ebony trimmed	35.40
9105	Stradivarius Model, rich dark amber shaded, highly polished choicest flamed maple back, sides and neck, full ebony trimmed, tail-piece inlaid with pearl ornament excellent workmanship, good tone. An exceedingly classy instrument	46.80

MADE IN AMERICA

91868	Guarnarius Model, amber color, beautifully flamed back with sides and neck to match, very fine workmanship, very highly polished, flat French model ebony pegs, ebony finger-board and tail-piece	$89.30

FOOT BALL GOODS

*DIAMOND BRAND

HEAD HARNESS

Per Dozen

No. 350—Best Quality Harness Leather; Back Piece Protecting Base of Head; Moulded Leather Ear Sides; Open Ventilated Sides; Leather Strap and Head Band, with Elastic Inside Leather Lined Sweat Band; Lined Throughout with Good Quality White Wool Felt; Adjustable to any Size Head. Weight per Dozen 9 lbs. $96 00

Twelfth Dozen in a Box

Per Dozen

No. 200—Best Quality Calfskin; Tan Color; Perforated for Ventilation; Rear Extension; Extra Heavily White Felt Padded; Elastic Chin Strap; Well Made and Sewed with Linen Thread; a Player is Absolutely Safe with this Helmet. Weight per Dozen 9¾ lbs. $80 00

No. 175—Sheepskin; Black Color; Perforated for Ventilation; Leather Reinforced Crown Piece; Rear Extension; White Felt Heavy Padded; Elastic Chin Strap; Weight per Dozen 9¾ lbs. 42 00

No. 150—Leatheroid; Black Color; Perforated for Ventilation; Rear Extension; Gray Felt Padded; Elastic Chin Strap; Weight per Dozen 9 lbs. 21.60

Twelfth Dozen in a Box

Per Dozen

No. 3—Sheepskin; Black Color; White Felt Lined; Elastic Chin Strap; Weight per Dozen 6¾ lbs $27.00

Twelfth Dozen in a Box

Per Dozen

No. 100—Best Quality Sheepskin; Tan Color; Perforated for Ventilation; Gray Felt Padded; Elastic Chin Strap; Sewed with Linen Thread; Weight per Dozen 9 lbs. $24.00

Twelfth Dozen in a Box

FOOT BALL GOODS

*DIAMOND BRAND

STOCKINGS

Our Stockings are Superior to Anything Ever Offered for Athletic Wear, and Combine all the Essentials of a Perfect Stocking. They are Heavy Ribbed, Full Fashioned, Hug the Leg Closely but Comfortably, and are Very Durable.

PLAIN COLORS

Colors: Black, Navy Blue, Maroon, Royal Blue, Scarlet, White and Green.

Per Dozen Pair

No. 3,0—Extra Heavy Worsted, Fancy Ribbed $54 00

No. 1 R—Heavy Weight Worsted, Plain Ribbed 36 00

No. 2 R—Medium Weight Worsted, Plain Ribbed 27.00

No. 3 R—Good Weight Wool, Plain Ribbed 21 60

No. 4—Good Weight Cotton, Plain Ribbed 9.00

All Our Stockings Made with White Feet, Except No. 4

FANCY STRIPED COLORS

Colors: Black and Red, Maroon and White, Orange and Black, Navy Blue and Red.

Per Dozen Pair

No. 3/OS—Extra Heavy Worsted, Fancy Ribbed $54.00

No. 1/RS—Heavy Weight Worsted, Plain Ribbed 36 00

No. 2/RS—Medium Weight Worsted, Plain Ribbed 27 00

No. 3/RS—Good Weight Wool, Plain Ribbed 21.60

Any Combination of Colors not Described Above can be Furnished Direct from Factory, Chicago, Ill., at Same Prices.

Average Weight per Dozen Pair 6 lbs

Loose

SHIN GUARDS

Per Dozen Pair

No. 4—Men's; 12inch; Maroon Sheepskin Front; Canvas Back; Leather Bound; Rattan Reinforced; Black Leather Straps; Weight per Dozen Pair 6¾ lbs. $20 00

No. 5—Men's; 12 inch; Brown Canvas Front; [illegible] Back; Cloth Bound; Rattan Reinforced; Black Leather Straps, Weight per Dozen Pair 7½ lbs. 13 50

No. 6—Boys; 9 inch Brown Canvas Front; Tan Canvas Back; Rattan Reinforced; Black Leather Straps; Weight per Dozen Pair 5 lbs. 13.50

Loose

SHOES

*TRIUMPH

Sizes Carried in Stock, 6, 7, 8, 9, 10, 11.

Per Pair

No. F24—Rugby Special; Highest Quality English Grain Leather; Black Color; High Lace; Ankle Pads; Diamond Cleats on Sole; Hand Sewed Welt; Weight per Pair 2 lbs . . $11.00

No. F25—College Special; Selected Calfskin; Black Color; High Lace; a Good, Well Made and Serviceable Shoe; Weight per Pair 2 lbs. 10.00

One Pair in a Box

FOOT BALL GOODS

*DIAMOND BRAND

NOSE MASKS

Best Quality Composition Rubber; Affords Absolute Protection to the Nose, Mouth and Teeth; No Wire or Metal Used in the Construction a Necessity for Every Foot Ball Player.

With Detachable Mouth Piece

Per Dozen

No. 2—Men's; Weight per Dozen 6¾ lbs..... **$9 00**

One in a Box

With Solid Mouth Piece

Per Dozen

No. 1B—Boys'; Weight per Dozen 4½ lbs..... **$7 00**

One in a Box

ANKLE SUPPORTERS

These Supporters are Worn Over Stockings, Lacing very Tight in Center and a Little Looser at Top and Bottom. They Relieve Pain Immediately; Cure a Sprain in a Remarkably Short Time, or Prevent Sprains. Strengthen, But Prevent Turning of the Ankle. They are Invaluable in Foot Ball, Base Ball and all Athletic Contests, and are Daily Recommended and Highly Endorsed by Physicians. Worn with Any Shoe. Made in all Sizes.

NOTE—Always Specify size of Shoe worn when ordering.

Per Dozen Pair

No. AS1—Russia Calfskin; Best Grade Soft Stock, with Laces, Weight per Dozen Pairs 2¼ lbs..... **$27 00**

No. AS2—Best Sheepskin; Extra Stitched with Laces, Weight per Dozen Pairs 2½ lbs..... **18 00**

Loose

No. AS0—Fine Calfskin; Reinforced with Whale Bone Ribs on Either Side; Nicely Bound with Laces; Weight per Dozen Pairs 3 lbs..... **$24 00**

Loose

FOOT BALL GOODS

*DIAMOND BRAND

JOCK STRAP SUSPENSORIES

Front

Side

When Ordering Give Waist Measure

Per Dozen

No. 5—Jock Strap Suspensory; Open Weave Cotton Fabric; All Elastic Light and Cool; Weight per Dozen 4 lbs..... **$13 50**

One in a Box

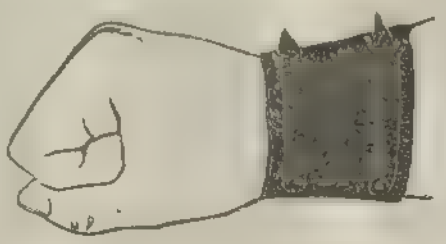
WRIST SUPPORTERS

Used by Athletes and Men in All Lines of Work Requiring Strain upon the Wrists.

Per Dozen

No. 3—Athletic; 2 inch Wide, 17 inches Long; Chrome Tanned Leather, Twice Around Wrist; Tinned Buckle Riveted on; Weight per Dozen ¾ lbs..... **$4 00**

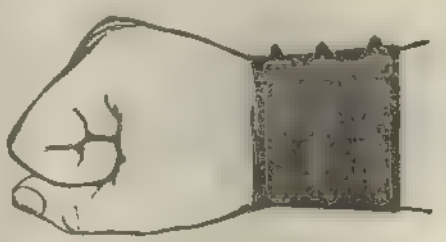
One Dozen in a Box



Per Dozen

No. 21X— inch Wide, 8 inch long; Tanned Calfskin; Two Straps; Tinned Buckle Riveted on; Weight per Dozen ¾ lbs..... **$3 70**

One Dozen in a Box



Per Dozen

No. 32X— Wrist Wide, 8 inches Long; Heavy Tanned Calfskin; Three Straps, Tinned buckles Riveted on; Weight per Dozen 1 lb..... **$5 00**

One Dozen in a Box

THE NEW FORT DEARBORN ELECTRIC PHONOGRAPH

Operates by Electricity. No Crank or Spring to Wind. No Noisy, Scratchy and Irritating Record Playing, but a Perfect, Natural and Soft Correct Reproduction is Attained.

A Remarkable, Perfect, High Grade Electric Phonograph, which will revolutionize the Phonograph Industry. Why pay $300.00 to $400.00 for an Electric, when you can purchase this strictly high grade machine for less than ONE-HALF.

We are so enthusiastic over this wonderful machine that we CONTRACTED with Manufacturers for entire output. Applied our own individual trade-name, as a Guarantee of Highest Quality.

CABINET

The best artist designers have produced the harmonious and beautiful lines which characterize this **Fort Dearborn Electric.** Genuine Mahogany, Massive, Solid Mahogany Trimmings, Handles, Solid Mahogany Veneered. Cabinet with Castors (though not illustrated) artistic grill front, Compartments for records and three countersunk Wells or Pockets for Needles, Mahogany inlaid, harmonizing beautifully with cabinet in general. Has a featured side, small, hinged door, thoroughly reinforced, which, when opened, has ample space permitting the resting of record albums, while remaining erect.

SOUND BOX

The **Fort Dearborn Electric** Sound Box, built with a free and easy floating motion, produces an even, rich and harmonious tone, and, being of the proper weight and balanced for the closest reproduction of tones, thus prolongs the life of the record.

TONE CHAMBER

Like the Stradivarius rare old Violins, the Amplifying Tone Chamber of the **Fort Dearborn Electric** is built of resonant wood, specially seasoned and prepared, and is designed on the latest scientific principles.

TONE ARM

New Improved Tone Arm, highly nickeled finish, skillfully designed and carefully reinforced, giving added strength is a feature in this machine. Plays any kind of record, Victor, Columbia, Pathe or Edison, with same attachment and without changing the equipment.

HEIGHT, 50 INCHES
WIDTH, 22½ INCHES
DEPTH, 22½ INCHES
PLAYS ALL RECORDS

Model No. 350 Fort Dearborn Electric Phonograph.

List Price.....$255.35

TONE QUALITY

Electrics when perfected as this **Fort Dearborn Electric** is, are the only Phonographs which reproduce correctly. The hum, and scratchy and irritating noise is completely eliminated, making its operation enjoyable and delightful.

TONE MODIFIER

No change of Needle is required in the **Fort Dearborn Electric** to produce tone modification to suit the most fastidious taste. The Volume of sound is increased by the simple moving of the modifier, or decreased in like manner, which is operated while the machine is playing, from outside of the cabinet.

THE MOTOR

The Motor is of the best material and workmanship, such as is found in only the $300.00 and $400.00 phonographs. Silent and smooth in operation and so much so, that there is no comparison with non-electric machines, which scratch more or less and do not reproduce correctly.

Universal slow speed, tap wound, operating through selective plug on

110-120 Volts.....DC
110-120 Volts.....AC 60 Cycles
110-120 Volts.....AC 25-50 Cycles

(which specify when ordering.)

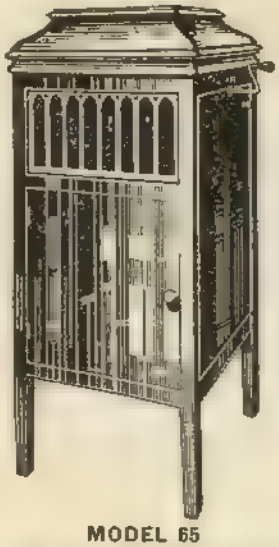
No resistance required. Uniform speed of turntable under ordinary changes in voltage. 25-volt drop will not change speed of turntable. Suspension from metal base through shock absorbers. Hum of the motor completely isolated. All bearings hardened, ground and polished.

View Displaying Workings of this Highest Grade Motor.

Model No. 350 Fort Dearborn Electric Phonograph. List Price $255.35

The SYMPHONY CABINET PHONOGRAPH

THE ACME OF SOUND REPRODUCTION



MODEL 65

Height, 45 inches; width, 18½ inches; depth, 21 inches. Equipped with Tone Modifier and Four Casters. Size of Top, 18½ x 18½ inches. Three Record Compartments. Made of Genuine Mahogany Veneer ⅜ inch wide, ⅝ inch thick, finished mahogany in gloss or flat finish and plain oak finished golden or fumed.

Price, each **$96.00**

Musical Features of the Symphony

PLAYS ALL DISC RECORDS

1. It plays every make of disc record with the same portrayal of tone quality as the instrument for which the record was made. See illustration below for method of simple adjustment necessary.

THE SOUND CHAMBER

2. The amplifier or sound chamber which for transmission of tone values, is the most important part of the machine, has a very large wood sounding horn starting from the tone arm and ending with the grill at front of cabinet. This amplifier is made of carefully selected, resonant and vibratory materials.

THE SOUND BOX AND TONE ARM

3. The sound box and tone arm used are of universal type. The sound box being a delicately adjusted bit of mechanism that responds with almost human sensitiveness to the slightest vibration. It will reproduce the proper tone value of any record consistent with the quality of the record used.

THE MOTORS

4. All motors used are of highest grade; are constant speed, non-vibrating and give an even sustained tone. Motors used on the two styles, No. 65 and No. 75, will run four 10-inch records without rewinding, while on styles No. 100 and No. 150, a still higher grade motor running five 10-inch records are used. Our motors are skilfully designed and positive in action.

SPEED REGULATOR AND TONE CONTROL

5. A speed regulator, properly sealed and conveniently located, and tone control maintained at the source of tone production, are features incorporated in our models.

WOODS AND FINISHES

6. First-class materials only are used; genuine veneered mahogany which is especially thick, permitting of proper tone retention is used throughout. Approximately 80 per cent. of all machines sold are in mahogany finish, balance in golden oak and fumed oak. However, if necessary can furnish other finishes, such as Jacobean, Silver Gray, Early English, etc.

MODEL 75

Height, 45 inches; width, 18½ inches; depth, 21 inches. Tone Modifier and Casters. Two Doors. Four Record Compartments. Made of genuine Mahogany Veneer, 13/16 inch walls and doors, finished mahogany, hand rubbed and quartered oak finished golden or fumed.

Price, each **$112.00**

MODEL 100

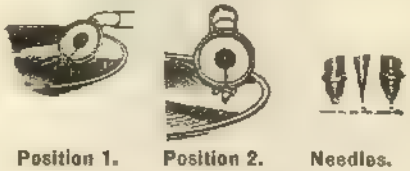
Height, 47 inches; width, 19½ inches, depth, 22 inches. Tone Modifier and Casters, two doors and Six Record Compartments. genuine mahogany veneered 13/16 inch walls and doors, hand rubbed and quartered oak finished golden or fumed.

Price, each **$140.00**

When ordering, state finish wanted. If omitted, most popular finish will be sent at your risk.

PLAYING POSITION

To Play All Records Just Loosen One Thumb Screw to Change the Sound Box.



Position 1. **Position 2.** **Needles.**

Position 1.

Set with steel needle. For playing any lateral cut record such as Victor, Columbia, etc., sound box meets the turntable at an angle of 55 to 65 degrees.

Position 2.

Set with Sapphire point. For playing Mathews and other Hill and Dale cut records, such as Edison, Domino, Rex, Pathe, etc.

NEEDLES

Steel Needles—Use any standard make.

Sapphire Ball—For Pathe Records. Each **$0.90**

Sapphire Point—For Edison and Columbia Records.

Each **$0.90**

Last two of above, play 200 to 400 records.

Diamond Point. **$8.00**

All phonographs equipped free of charge with one Sapphire point for playing Edison records.

All f. o. b. factory in Missouri.

MODEL 150

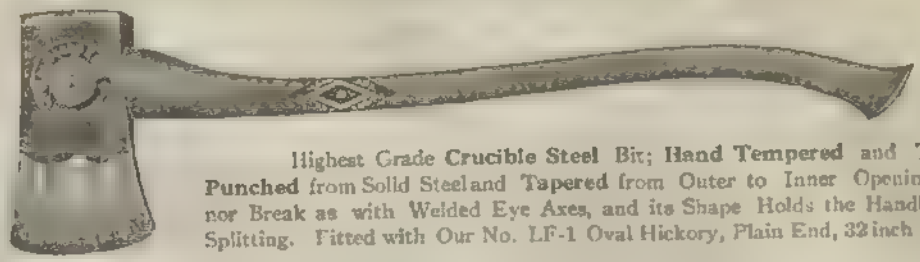
Height 48 inches; width, 21½ inches; depth 24 inches. This cabinet has only highest quality workmanship and material and finish. Is massive in appearance and beautiful in design. Exceptional value. Doors and top are curved. Tone Modifier, Casters, woods and finishes same as Model 100.

Price, each **$216.00**

FREIGHTERS AXES

Used by Campers and Warehousemen and for General Utility Purposes

★DIAMOND EDGE
Axe Wedge used in all our Handled Axes. Full description on Page 3.



★DIAMOND EDGE
Gold Bronzed and Labeled; Polished Bit and Head.

Highest Grade **Crucible Steel** Bit; **Hand Tempered** and Tested; Soft Steel Body; **Eye Punched** from Solid Steel and **Tapered** from Outer to Inner Opening; the Eye will Not Stretch nor Break as with Welded Eye Axes, and its Shape Holds the Handle Firmly and Prevents its Splitting. Fitted with Our No. LF-1 Oval Hickory, Plain End, 32 inch Handle.

Per Dozen

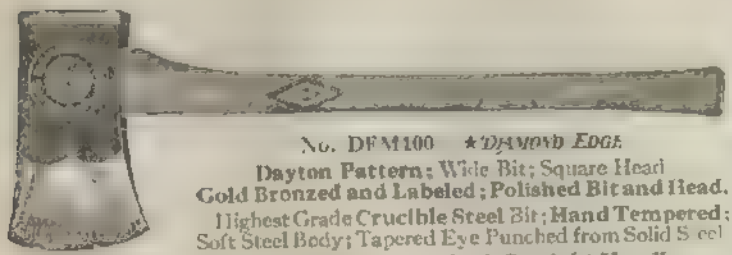
No. DEF—Dayton Pattern; Weight with Handle 3 lbs ; 32 inch Hickory Handle; Weight per Dozen 45 lbs **$18 00**

Half Dozen in a Case

COAL AXES

Identically the Same as Our Line of Single Bit Axes, Shown on Preceding Pages, Except Fitted with a Short Straight Handle, Suiting them for Use in Mines, and for Breaking Up Large Pieces of Coal

Fitted with No. LM Oval Hickory, 26 inch Straight Handle; Wedged with Our DIAMOND EDGE Axe Wedge



No. DEM100 ★DIAMOND EDGE

Dayton Pattern; Wide Bit; Square Head
Gold Bronzed and Labeled; Polished Bit and Head.
Highest Grade **Crucible Steel** Bit; **Hand Tempered;** Soft Steel Body; Tapered Eye Punched from Solid Steel

Fitted with No. LM Oval Hickory, 26 inch Straight Handle.

Weights, Assorted	**3¼**	**3½/4½**	**4 5**
Per Dozen	**$21.00**	**21 50**	**22 00**

No. DEM100XM

Fitted with No. XM Southland Oval Hickory 26 inch Straight Handle.

Weights, Assorted	**3¼**	**3½ 4½**	**4 5**
Per Dozen	**$20.50**	**21.00**	**21.50**

No. BM100— ★BRIDGE

Dayton Pattern; Wide Bit; Square Head
Gold Bronzed and Labeled; Polished Bit and Head.
Extra Quality **Crucible Steel** Tempered Bit, Soft Steel Body; Tapered Eye Punched from Solid Steel.

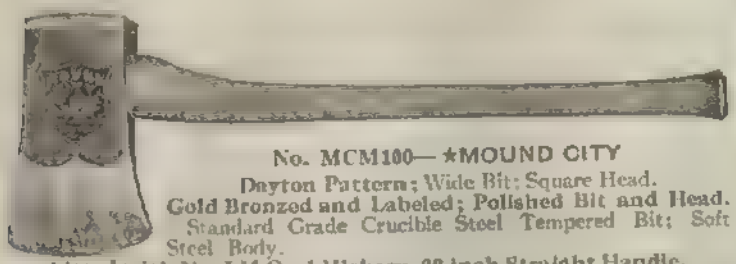
Fitted with No. LM Oval Hickory, 26 inch Straight Handle.

Weights, Assorted	**3¼**	**3½/4½**	**4,5**
Per Dozen	**$21.00**	**21.50**	**22.00**

No. BM100XM

Fitted with No. XM Southland Oval Hickory, 26 inch Straight Handle.

Weights, Assorted	**3 4**	**3½ 4½**	**4 5**
Per Dozen	**$20.50**	**21.00**	**21.50**



No. MCM100— ★MOUND CITY

Dayton Pattern; Wide Bit; Square Head.
Gold Bronzed and Labeled; Polished Bit and Head.
Standard Grade Crucible Steel Tempered Bit; Soft Steel Body.

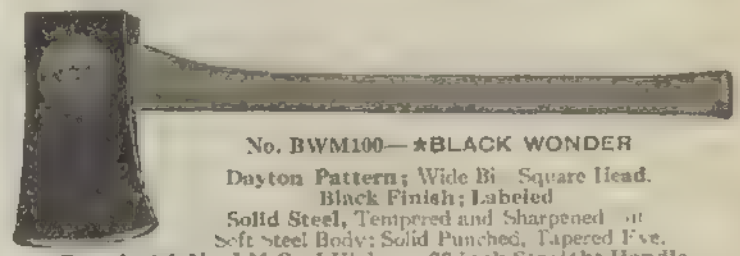
Fitted with No. LM Oval Hickory, 26 inch Straight Handle.

Weights, Assorted	**3¼**	**3½/4½**	**4 5**
Per Dozen	**$20 00**	**20 50**	**21.00**

No. MCM 100XM

Fitted with No. XM Southland Oval Hickory, 26 inch Straight Handle.

Weights, Assorted	**3¼**	**3½ 4½**	**4 5**
Per Dozen	**$19.50**	**20 00**	**20.50**



No. BWM100— ★BLACK WONDER

Dayton Pattern; Wide Bit Square Head.
Black Finish; Labeled
Solid Steel, Tempered and Sharpened Bit
Soft Steel Body; Solid Punched, Tapered Eye.

Fitted with No. LM Oval Hickory, 26 inch Straight Handle.

Weights, Assorted	**3¼**	**3½/4½**	**4/5**
Per Dozen	**$20 00**	**20 50**	**21 00**

No. BWM100XM

Fitted with No. XM Southland Oval Hickory, 26 inch Straight Handle.

Weights, Assorted	**3 4**	**3½ 4½**	**4/5**
Per Dozen	**$19.50**	**20.00**	**20.50**

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 70 lbs

ICE AXES

Used on Ice Wagons and by Dealers in Splitting Cakes of Ice

★DIAMOND EDGE

Boston Pattern

Highest Grade Crucible Steel; Polished Blade and Bayonet Point; Soft Steel Body, **Painted Red;** Selected Oval Hickory Handle.

Per Dozen

No. DEC—Weight 3¾ lbs.; Width of Blade 1¾ inches; Length of Head 11¾ inches; Length of Point 4 inches; 34 in. Handle; Weight per Dozen 71 lbs..... **$28 00**

One Dozen in a Box

FIREMENS AXES

Used by Fire Companies, on Boats, and Railway Trains; in Factories, Warehouses, Theaters, Hotels and Other Public Buildings.

★DIAMOND EDGE

Painted Red

Extra Refined Crucible Cast Steel; Polished Bit and Pick; **Gold Bronzed Poll;** Selected Hickory, 36 Inch Handle; Painted Red.

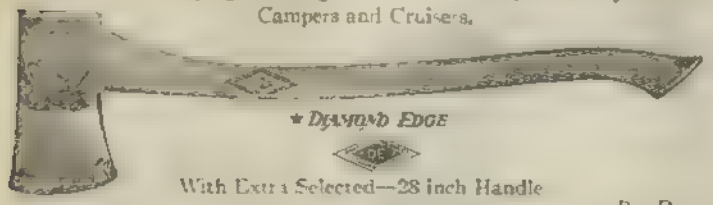
Per Dozen

No. DEX—Assorted 4¼ to 5½ lbs.; about 4¾ inch cut; 11¾ inches High Over Point; Weight per Dozen 85 lbs..... **$31 00**

Half Dozen in a Box

BOYS HANDLED AXES

Handy for Chopping Kindling and Small Wood; Used by Hunters, Campers and Cruisers.



With Extra Selected—28 inch Handle

Per Dozen

No. DE2—Refined Cast Steel; **Gold Bronzed Finish**; Polished Bit and Head; Weight Without Handle 2¼ lbs **$16 00**

With Extra Selected—28 inch Handle

Per Dozen

No DEH2—Extra Cast Steel; **Dead Black Honed Bit**; Weight Without Handle, 2¼ lbs..... **$16 00**

With Extra Selected—28 inch Handle

Per Dozen

No. DEX2—Phantom Bevel; Extra Cast Steel Bevels; Painted Carmine; Polished Bit and Head; Weight without Handle 2¼ lbs..... **$17.00**

With No. 1—28 inch Selected Handle

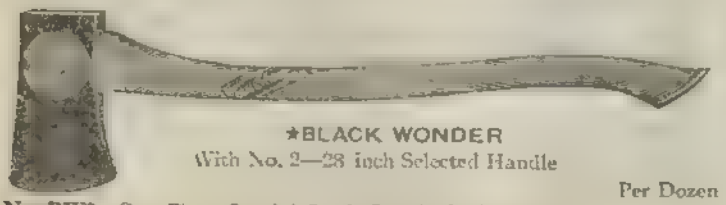
Per Dozen

No. B2—Phantom Bevel, Extra Cast Steel, **Red and Blue** Finish; Polished Bit and Head; Weight Without Handle 2¼ lbs..... **$15 50**

With No. 2—28 inch Selected Handle

Per Dozen

No. MC2 Cast Steel, **Gold Bronzed**, Polished Bit and Head; Weight Without Handle 2¼ lbs..... **$14.50**



With No. 2—28 inch Selected Handle

Per Dozen

No. BW2—One Piece Special Steel, **Dead Black Finish**; Weight Without Handle 2¼ lbs..... **$14 00**

One Dozen in a Crate, Heads Enclosed, Handles Burlapped; Weight per Dozen about 43 lbs.

CAMP AXES

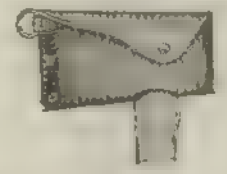
★DIAMOND EDGE

Cut shows end view of Diamond Edge Camp and Hunters Axes, showing Thin Tapering Bit. This construction makes a quick cutting edge and one that is easily sharpened. A most important feature of these axes.

SINGLE BIT

★DIAMOND EDGE

Highest Grade Special Alloy Tool Steel; **Full Polished and Stamped**; Best Quality Selected White Hickory Handle; Waxed Finish and Labeled.



Heavy Russet Harness Leather Sheath, Sewed and Riveted; Brass Glove Fastener; slits in Back through which to Pass Belt; Nickel Plated Ring.

Per Dozen

No. DEC2—Single Bit; Extra Thin Taper; 28 inch Handle, Weight without Handle 2¼ lbs..... **$20 00**

No. DECS2—With Sheath; Weight per Dozen about 34 lbs..... **29 00**

Half Dozen in a Box

No. SB—Sheaths only; Weight per dozen about 4 lbs..... **10 00**

Loose

DOUBLE BIT

★DIAMOND EDGE

Highest Grade Special Alloy Tool Steel; Full Polished and Stamped; Best Quality Selected White Hickory Handle; Waxed Finish and Labeled.

Heavy Russet Harness Leather Sheath, Sewed and Riveted; Brass Glove Fasteners; Slits in Back through which to Pass Belt; Two Nickel Plated Rings.

Per Dozen

No. DEDB—Double Bit; Extra Thin Taper; 28 inch Handle; Weight without Handle 2½ lbs. Weight per Dozen about 31 lbs. **$25.00**

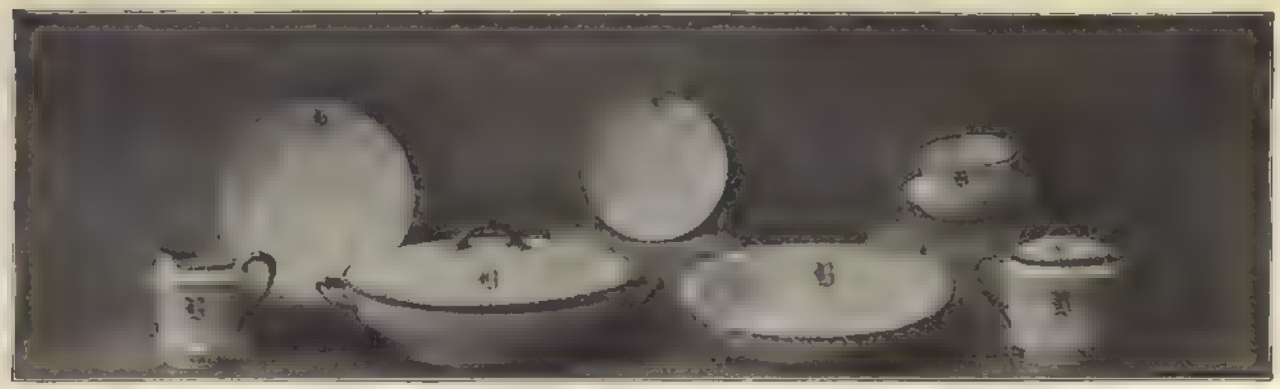
No. DEDBS—With Sheath; Weight per Dozen about 36 lbs..... **27.00**

Half Dozen in a Box

No. DB—Sheaths only; Weight per Dozen about 5 lbs..... **12 00**

Loose

FINEST GENUINE FRENCH HAVILAND (Haviland & Co., Limoges, France) DINNERWARE



Work executed with remarkable skill and care by the best known artisans. Highest quality of Gold used for Decorations.

White with Gold Band and Hairline. Gold Band and Hairline 1 Letter. Gold Band and Hairline 2 Letters. Gold Border [illegible]

SEPARATE PIECES FURNISHED AS FOLLOWS

No. 100	Service plates, 9½ inch	Per Doz.	$42 35	$46 [illegible]	$47 [illegible]	$49 80
No. 101	Dinner plates, 9 inch	Per Doz.	37 85	41 65	43 10	38 [illegible]
No. 102	Bread & butter plates, 8 inch	Per Doz.	28 00	32 85	34 20	35 [illegible]
No. 103	[illegible]	Per Doz.	25 20	28 00	29 80	32 [illegible]
No. 104	Cereals, 6 inch	Per Doz.	24 00	28 [illegible]	29 [illegible]	32 45
No. 105	Fruit saucers	Per Doz.	24 00	26 40	27 [illegible]	33 10
No. 106	Ice cream	Per Doz.	28 [illegible]	32 [illegible]	34 [illegible]	36 15
No. 107	Salad plates	Per Doz.	20 00	23 [illegible]	24 [illegible]	25 15
No. 108	Oatmeal dishes	[illegible]	26 90	30 65	32 [illegible]	34 35
No. 109	After Dinner cups and saucers	[illegible]	28 00	31 75	33 [illegible]	37 45
No. 110	Tea cups and saucers	No. 0Z	34 [illegible]	36 75	38 60	41 15
No. 111	Coffee cups and saucers	[illegible]	39 [illegible]	42 35	44 80	46 55
No. 112	Bouillon cups and saucers	Per Doz.	44 55	48 80	47 85	51 40
No. 113	Ramekins and stands	Per Doz.	32 [illegible]	35 80	37 [illegible]	40 55
No. 114	Chocolate cups and saucers	Per Doz.	41 20	42 95	44 80	46 55
No. 115	Platter, 10 inch	Each	5 60	6 [illegible]	6 [illegible]	6 70
No. 116	Platter, 12 inch	Each	7 10	7 50	7 85	8 20
No. 117	Platter, 14 inch	Each	9 70	10 10	10 45	10 80
No. 118	Platter 16 inch	Each	13 30	15 [illegible]	16 [illegible]	16 30
No. 119	Platter 18 inch	Each	21 10	24 50	24 [illegible]	25 [illegible]
No. 120	Platter 20 inch	Each	33 40	38 85	34 [illegible]	34 50
No. 121	Covered oval vegetable dish, length 12 inches	Each	16 60	17 [illegible]	17 [illegible]	17 70
No. 122	Covered round vegetable dish, diameter 10 inches	Each	16 10	17 10	17 45	17 70
No. 123	Open round vegetable dish, diameter 9 inches	[illegible]	7 85	8 25	8 [illegible]	9 00
No. 124	Open oval vegetable dish, length 10 inches	[illegible]	7 85	8 25	8 65	9 10
No. 125	Sauce boat, length 8½ inches	[illegible]	13 25	13 65	14 [illegible]	14 55
No. 126	Butter dish, length 8 inches	[illegible]	11 20	11 60	11 [illegible]	12 30
No. 127	Pickle dish, length 8 inches	[illegible]	4 10	4 50	4 85	5 20
No. 128	Sugar and cover	Each	7 20	7 70	8 05	8 40
No. 129	Cream and cover	Each	4 20	4 70	5 05	5 40
No. 130	Cake plate, handle	Each	6 75	7 15	7 50	7 85
No. 131	Strawberry dish, diameter 12 inches	[illegible]	8 10	8 [illegible]	9 35	9 70
No. 132	Fruit 12 inch, height 6½ inches	Each	9 70	10 10	10 45	10 80
No. 133	Cheese cover, height 7 inches	Each	9 70	10 10	10 45	10 80
No. 134	Sugar 12 inch	Each	7 85	8 25	8 60	8 95
No. 135	Cream 12 inch	Each	6 80	6 20	6 55	6 90
No. 136	Celery tray, length 11½ inches	Each	7 50	7 90	8 25	8 60
No. 137	Mayonnaise tray, diameter 6½ inches	Each	8 05	8 45	8 80	9 15
No. 138	Salad bowl, diameter 13 inches	Each	24 85	25 25	25 60	25 95
No. 139	Covered sauce tureen, height 8½ inches	Each	17 70	16 10	16 47	16 80

RICH GOLD, BEAUTIFULLY ETCHED BRIDAL ROSE DECORATION

Illustration in upper left hand corner shows full size decoration

SEPARATE PIECES FURNISHED AS FOLLOWS

No. 140	Service plates, 9½ inch	Per Doz.	$56 00	No. 160	Covered oval vegetable dish, length 12 inches	Each	$21 30
No. 141	Dinner plates, 9 inch	Per Doz.	46 70	No. 161	Covered round vegetable dish, diameter 10 ins.	Each	21 30
No. 142	Bread & butter plates, 8½ inch	Per Doz.	42 45	No. 162	Open round vegetable dish, diameter 9 inches	Each	9 50
No. 143	Fruit plates 7 inch	Per Doz.	36 20	No. 163	Open oval vegetable dish, length 10 inches	Each	9 50
No. 144	Bread & Butter plates 6 inch	Per Doz.	31 40	No. 164	Sauce boat, length 8½ inches	Each	10 05
No. 145	Sauce dishes	Per Doz.	31 40	No. 165	Butter dish	Each	14 05
No. 146	Coup soups	Per Doz.	30 70	No. 166	Pickle dish, length 8 inches	Each	5 25
No. 147	Rim soups	Per Doz.	4 90	No. 167	Sugar [illegible]	Each	8 05
No. 148	Oatmeal dishes	Per Doz.	31 30	No. 168	Cream [illegible]	Each	4 80
No. 149	After Dinner cups and saucers	Per Doz.	53 70	No. 169	Sugar, 12 inch	Each	9 35
No. 150	Tea cups and saucers	Per Doz.	53 40	No. 170	Cream, 12 inch	Each	6 35
No. 151	Coffee cups and saucers	Per Doz.	65 40	No. 171	Fruit, 12 inch, height 6½ inches	Each	13 45
No. 152	Bouillon cups and saucers	Per Doz.	74 10	No. 172	Cheese dish, height 7½ inches	Each	13 45
No. 153	Demitasse cups and saucers	Per Doz.	95 90	No. 173	Cake plate, diameter 9 inches	Each	8 00
No. 154	Ramekins and stands	Per Doz.	59 95	No. 174	Chop plate, diameter 12 inches	Each	10 45
No. 155	Platter 12 inch	Each	8 05	No. 175	Celery tray, length 11½ inches	Each	9 45
No. 156	Platter 14 inch	Each	12 50	No. 176	Soup tureen, height 13 inches	Each	31 75
No. 157	Platter 16 inch	Each	16 80	No. 177	Covered sauce tureen, height 8½ inches	Each	19 60
No. 158	Platter 18 inch	Each	98 35	No. 178	Mayonnaise tray, diameter 6½ inches	Each	10 85
No. 159	Platter 20 inch	Each	37 50				

FINEST AMERICAN DINNER WARE

So marvelously similar to highest grade Imported China that it requires an expert to distinguish the difference.

We used the finest of imported clay in the manufacture of our dinner ware, giving the remarkable high grade finish and glaze of the genuine Imported China. Guaranteed not to craze. All decorations are carefully executed and thoroughly baked, assuring fine rich colorings. All pieces are first selection, no imperfect pieces in our stock. Prices quoted are for 100, 50 and 40 piece sets.

100-Piece Set contains: Twelve 9⅛ inch Dinner Plates, twelve 7¼ inch Breakfast Plates, twelve 7¾ inch Coupe Soups, twelve 5½ inch Dessert Plates, twelve Cups, twelve Saucers, twelve Butter Servers, one Olive Dish, one 14¼ inch Platter, one Covered Sugar, one Cream Pitcher, one Covered Vegetable Dish, one 9¼ inch Salad Bowl, one 8¼ inch Oblong Vegetable Dish, one 8¼ inch Cake Tray, one 1-pint Bowl, one 10¾ inch Platter, one Round Cheese Dish, one Fancy Pickle Dish, one Sauce Boat and one 7¾ inch Preserve Dish.

50-Piece Set contains Six 9⅛ inch Dinner Plates, six 6¼ inch Pie Plates, six 5½ inch Fruit Plates, six Butter Servers, six Cups, six Saucers, six 7¾ inch French Coupe Soups, one Covered Vegetable Dish, one 11¼ inch Meat Platter, one 6½ inch Olive Dish and one 7¾ inch Preserve Dish.

40-Piece Set contains: Six 9⅛ inch Dinner Plates, six 6¼ inch Pie Plates, six Handled Cups, one Covered Sugar Bowl, one 8¼ inch Oblong Vegetable Dish, one 11¼ Platter, six 5⅛ inch Dessert Plates, six Saucers, one Tea Pot and Cover, one 7¾ inch Preserve, one 9¼ inch Cake Tray and one 7¼ inch Pickle or Cheese Dish.

Shipped F. O. B. our Ohio Factory.

Fine pure white first quality in a dainty rose and scroll full border design finished with coin gold and enamel color lines and tracing. A design of extraordinary beauty. (Small illustration in upper left-hand corner shows actual size of decoration)

No. N71x100	100-Piece Set	Complete	$45 00
No. N71x 50	50-Piece Set	Complete	22 50
No. N71x 40	40-Piece Set	Complete	20 25

Fine pure white first quality in a beautiful embossed or scroll, finished gold and enamel colors. The burnished gold band bordered with fine black enamel lines makes a most pleasing design and one you could not buy for the price of. (Small illustration in upper left-hand corner shows actual size of decoration)

No. N102x100	100-Piece Set.	Complete	$39 50
No. N102x 50	50-Piece Set.	Complete	20 00
No. N102x 40	40-Piece Set	Complete	18 00

FRUIT PRESSES

ENTERPRISE

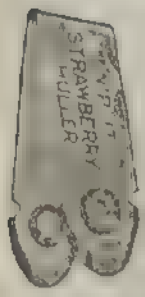
Combined Fruit, Wine and Jelly Press; Extracts the Juice and Ejects the Skin and Seeds at One Operation.

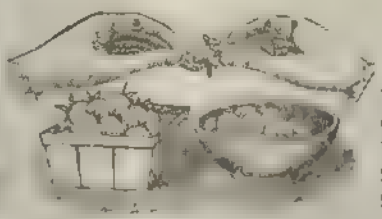
Per Dozen

No. 34—Hopper Holds One Quart, Tinned Cast Iron Frame and Parts; Coarse and Fine Strainer Plates; Spiral Cast Iron Feed Screw; 9 inch Crank with Polished Hardwood Handle; Height Over All 15 inches; Length of Cylinder 9¾ inches, Diameter of Hopper 6 inches; Weight per Dozen 153 lbs..... $94.00

Half Dozen in a Case

STRAWBERRY HULLERS





NIP IT

Avoid Stained Fingers; Does not Crush the Fruit, Takes Out Spot Spots; Clean and Sanitary.

Per Gross

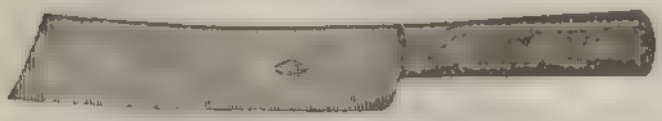
No. N1000—Spring Steel, Nickel Plated; Length 2⅝ inches; Weight per Dozen 7 ozs..... $8 40

One Dozen on Display Card

Lots of 1000	Per 1000	$43 00
Lots of 5000	Per 1000	35 00
Lots of 10,000	Per 1000	33.00
Lots of 500	Per Lot	33.00
Advertising Folders for above with Special Printing	Per 1000	5.70
Advertising Folders for above in Lots of 500	Per Lot	5.40

Prices Include Stamping Customer's Advertisement on Huller in any Style Shown, or Stock or Plain Type.

KITCHEN CHOPPERS



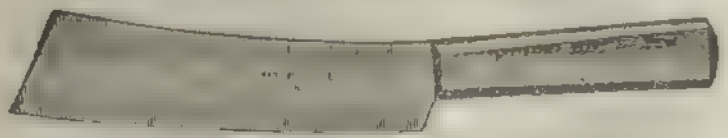
★ DIAMOND EDGE

Finest Quality Crucible Forged Steel Blade; Oil Tempered; Ground and Sharpened, Polished Finish; Heavy Full Scale Tang Cocobolo Handle with Three Brass Saw Rivets.

Per Dozen

No. 15—Blade 8 inches Long; 1⅜ inches Wide; ⅛ inch Thick; Weight per Dozen 11 lbs..... $12.00

Half Dozen in a Box



★BRIDGE CUTLERY CO.

Good Quality Hard Tempered Tool Steel Blade; Glazed Finish; Ground and Sharpened; Heavy Scale Tang Beechwood Handle Fastened with Five Iron Rivets.

Per Dozen

No. 1951—Blade 8 inches Long; 1¾ inches Wide; ⅛ inch Thick; Weight per Dozen 10 lbs..... $8.00

Half Dozen in a Box

LAMB SPLITTERS

★DIAMOND EDGE

Finest Quality Crucible Forged Steel Blade, Oil Tempered, Ground and Sharpened, Polished Finish, Heavy Full Scale Tang Scored Maple Varnished Handle with Straight Steel Cap Bolster and Two Heavy Brass Rivets.

Per Dozen

No. 3—Blade 12 inches Long, 2½ inches Wide; ¼ inch Thick; Weight per Dozen 25 lbs..... $40.00

Twelfth Dozen in a Package

CLEAVERS AND CHOPPERS

★DIAMOND EDGE BUTCHERS

Finest Quality Crucible Forged Steel, Polished and Etched; Ground and Sharpened, Selected Polished Walnut Handle with Flattened Sides, Fastened through Full Length of Handle.

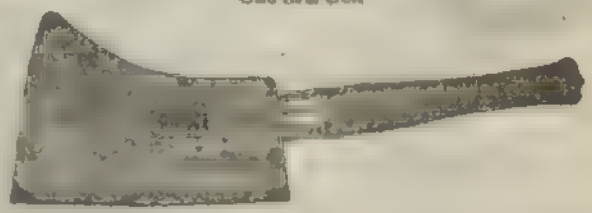
CLEAVERS

Nos.	DE10	DE11	DE12	DE13
Length Cut, Inches	7	8	8	10
Weight Dozen, Lbs.	22½	35	45	51
Per Dozen	$34.50	39.00	42.00	46.00

CHOPPERS

Nos.	DE20	DE20	DE21	DE22
Length Cut, Inches	7	8	9	10
Weight Dozen, Lbs.	24	30	30	36
Per Dozen	$31 00	34 00	33.00	42 00

One in a Box



BEATTY

Cast Steel Blade; Varnished Hickory Handle.

CLEAVERS

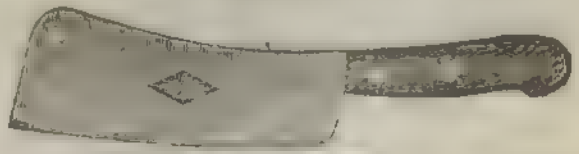
Nos.	00	0	1	2	3
Length Cut, In.	6	7	8	9	10
Weight Doz. lbs.	18	21	30	33	42
Per Dozen	$35.00	38.00	43.00	46.00	53.00

CHOPPERS

Nos.	000C	00C	0C	1C	2C
Length Cut, In.	6	7	8	9	10
Weight Doz. lbs.	15	18	24	27	33
Per Dozen	$30.00	33 00	38.00	41.00	46.00

One in a Box

FAMILY CLEAVERS



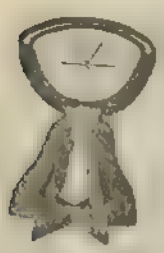
★DIAMOND EDGE

Butcher Pattern, Finest Quality Cast Steel Blade, Polished and Etched; Cocobolo Handle with Two Brass Saw Rivets. Per Dozen

No. DE50—Weight of Blade 7 ozs., Width of Blade 3 inches, Length over all 12 inches, Weight per Dozen 10 lbs. $10 50

Half Dozen in a Box

MINCING KNIVES



Per Dozen

No. 60—Black Japanned Iron Handle; Weight per Dozen 7 lbs. $4.00

Half Dozen in a Box

Stamped Steel Blades, Size 5½x2¾ inches; Polished and Tempered, Sharpened Ready for Use; Malleable Iron Shank, Screwed into Hardwood Handle.

Per Dozen

No. 9—Single Blade; Weight per Dozen 2½ lbs $1.00

One Dozen in a Box

Stamped Steel Blades, Size 5½x2¾ inches; Polished and Tempered, Sharpened Ready for Use; Malleable Iron Shank, Screwed into Hardwood Handle.

Per Dozen

No 10—Double Blade; Weight per Dozen 3¾ lbs. $1.40

Half Dozen in a Box

WOOD BOWLS

ROUND

Made of Hard Maple; Waxed Polished Finish.

Nos.	13	15	17	19
Diameter, inches	13	15	17	19
Weight per Dozen, lbs.	22	33	65	78
Per Dozen	$4.50	10.00	23.00	32.00

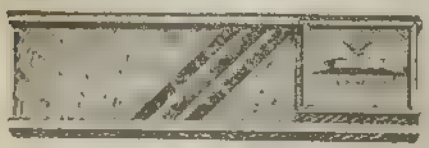
One Dozen in a Crate

Per Assortment of 12

No. 1319—Assorted; Three of Each Size, Nos. 13, 15, 17 and 19; Weight per Assortment 50 lbs. $17 00

Each Assortment in a Crate

KRAUT CUTTERS



Front View, Shows 45 Degree Pitch of Knives.

Back View, Shows Transverse Cleat Construction.

INDIANAPOLIS

Heavy Knives, Thin Cutting Edges, Set at an Angle of 45 Degrees; **Adjustable Removable Bed,** Supported by Transverse Cleats, Non-Collapsible Sliding Box with Safety Lid; Frame Work Cannot Warp or get out of Shape, and Box will Always run Smooth; has no Protruding Bolts, Screws, etc.; Made of Maple, Smooth Finish; Knives Painted Blue.

Nos.	642	643
Number of Knives	2	3
Size, inches	27x8	29x8
Weight per Dozen, lbs.	105	110
Per Dozen	$30.00	36 00

Quarter Dozen in a Cardboard Shipping Container

KRAUT CUTTERS

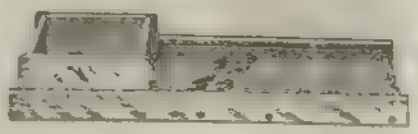
SANITARY

Metal Bed Triple Coated with Block Tin

Heavy Knives, Thin Cutting Edges, Set at an Angle of 45 Degrees; **Adjustable Removable Bed,** Supported by Transverse Cleats; Non-Collapsible Sliding Box with Safety Lid; Frame Work Cannot Warp or get out of Shape, and Box will Always run Smooth; has no Protruding Bolts, Screws, etc.

Nos.	M642	M643
Number of Knives	2	3
Size, inches	9x27	9x29
Weight per Dozen, lbs.	100	105
Per Dozen	$23.50	36.00

Quarter Dozen in a Cardboard Shipping Container



PLAIN

Plain Hard Maple; Separate Adjustment of Knives; Size 24x8 inches.

Nos.	672	673
Number of Knives	2	3
Per Dozen	$23.00	26 50

Quarter Dozen in a Box; Weight per Dozen 75 lbs.

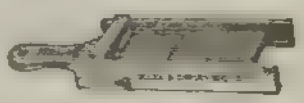
SLAW CUTTERS

Plain Hard Maple; Adjustable Knives, Size 12x8½ inches.

Nos.	621	622
Number of Knives		2
Per Dozen	$5.50	7.50

One Dozen in a Box; Weight per Dozen 27 lbs.

FANCY FRUIT AND VEGETABLE SLICERS



Reversible; Plain Side Up Cuts Plain and Perforated Flutings; Fluted Side up, Cuts Shoe Strings and Fancy Cubes.

Per Dozen

No. 604—Plain Maple; Size 13½x4¼ in.; Weight per Doz. 16 lbs.. $5.00

One Dozen in a Box

VEGETABLE CUTTERS

Per Dozen

No. 601—Plain Maple; Size 12x3½ in.; One Knife; Weight per Dozen 9½ lbs. $3.00

One Dozen in Box

Lawn Beauty with Economy and Conservation of Labor

Under ordinary conditions, hand mowing is inefficient and expensive. This year, with labor at a premium and also at impossible to obtain, hand mowing is prohibitive

The solution to the lawn cutting problem is the

FULLER & JOHNSON
MOTOR LAWN MOWER

The Fuller & Johnson Mower combines the convenience of a hand mower with large cutting capacity In one day's time one man can cut five acres of lawn with the Fuller & Johnson. He can cut it so perfectly that no after-trimming around trees, shrubs or driveways will be necessary. He can cut it when needed instead of waiting, as with a horse mower, until the turf is solid so that the lawn won't be marred by the horse's hoofs.

This is what the Superintendent of the Park District of Oak Park, Ill., has to say about the Fuller & Johnson

"Replying to your inquiry of July 5th, we are glad to say that the Fuller & Johnson Motor Lawn Mower which we purchased from you a few months ago has been in constant use, has required very little repairs and has been in every way very satisfactory, so much so that were we in the market for another machine of this type, I am sure we would not hesitate to purchase another of this kind."

All over the country, in parks, cemeteries and on large estates, Fuller & Johnson Motor Lawn Mowers are fast replacing hand mowers, horse mowers and the heavier types of motor mowers. Where you find the most beautifully kept lawns there too you will find the Fuller & Johnson Mowers, for good business judgment as well as lawn beauty dictate their use. Let us send you complete details about the Fuller & Johnson. Write for a copy of our new book entitled "A Better Lawn."

MANUFACTURERS DISTRIBUTING CO.
471 Fullerton Building St. Louis, Mo.

DREER'S GRASS SEEDS

¶ You sow a seed that is full of life and vigor when you sow

DREER'S GRASS SEED

¶ Special brands for every purpose—sunny or shady places, lawns, terraces; for city, park and seashore use. All brands composed of choicest, re-cleaned seed, carefully blended, and tested for germination.

¶ Write for prices or any desired information on lawn making. Special Grass Seed Circular—free.

DREER'S GARDEN BOOK FOR 1918 contains much information helpful to those interested in civic improvements which include flowers, shrubbery, etc. Sent free to anyone mentioning this publication.

HENRY A. DREER
714-716 Chestnut St. Philadelphia

Storm Insurance

ORANGEBURG *Fibre Conduit* will safeguard many thousands of Central Station, Telegraph, Telephone, Signal and other wires against the storms of the coming winter.

Will it safeguard *yours?* If not, *why* not?

Let us figure with you on the proposition of protecting *your* wires with ORANGEBURG *Fibre Conduit* "storm insurance." *Get BOOK D.*

THE FIBRE CONDUIT COMPANY
ORANGEBURGH, N. Y.
New York Boston Chicago San Francisco

A SWING FOR PLAYGROUNDS

made strong and durable with heavy steel springs which makes swinging a pleasure as well as exercise for the children. Write for booklet.

NOLL BROTHERS
Benches and Swings
SAUSMAN, PA.

W. & T. SMITH COMPANY

NURSERY STOCK AT WHOLESALE

Send for Catalogue and Price List

GENEVA NURSERY, Geneva, N. Y.

Lewis & Valentine Co.
Roslyn, N. Y.

The World's Largest Movers of Big Trees.

Ornamental Trees, Shrubs, and Hardy Perennials

A complete stock.
Quality unexcelled.
Send for price list.

HENRY KOHANKIE & SON
Painesville, Ohio

Norway Maples

are unrivalled for shade and for landscape effects. We have a large stock of splendid specimens that will mature rapidly into towering round-topped trees, with clean, sturdy trunks. Also a complete stock of ornamentals. Over 2500 acres in nursery stock.

Write for 1916 Catalog and prices.

Harrisons' Nurseries, BOX 70, **Berlin, Md.**

A BOOK YOU OUGHT TO HAVE

Shade Trees in Towns and Cities

287 Pages — 251 Illustrations — Price $3.00

The selection, planting and care of shade trees as applied to the art of street decoration; their diseases and remedies; their municipal control and supervision.

THE CIVIC PRESS, 87 Nassau St., N. Y. City

FOR *SAFE* TREE SURGERY—

for Tree Surgery that is scientifically accurate and mechanically perfect—for Tree Surgery that saves trees without guessing and experimenting—come to headquarters.

The Davey Tree Expert Co., Elm St., Kent, Ohio

Branch offices with telephone connections: 225 Fifth Ave., New York. 2017 Land Title Bldg., Philadelphia. 450 McCormick Bldg., Chicago.

Permanent representatives in all principal cities.

Davey Tree Surgeons

ENTERPRISE PROTECTIVE FENCE

protects and beautifies

Keeps out undesirable persons. Beautifies surroundings and increases values. Does not obstruct fine views.

Schools, Hospitals, Parks, Estates, Public Bldgs., Cemeteries, Asylums, Etc., Etc.

Send for Illustrated Catalog explaining offer to make free blue-print of Enterprise fencing for any property.

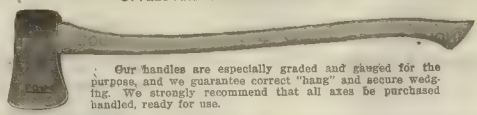
ENTERPRISE IRON WORKS 1161 E. 24th St., Indianapolis

Specialists for 33 years in All-Iron and Iron-and-Woven-Wire protective fencing

HANDLED AXES.

F·O·K·O

THE AXES DESCRIBED ON PRECEDING PAGE ARE LISTED BELOW, HANDLED WITH APPROPRIATE STYLES AND GRADES OF HANDLES.



For complete description of the handles used in these axes, see page 94.

Our handles are especially graded and gauged for the purpose, and we guarantee correct "hang" and secure wedging. We strongly recommend that all axes be purchased handled, ready for use.

SINGLE BIT.

	Per Dozen 3½ lbs. or 3-4 lbs. Asst.	Per Dozen 4 lbs. or 3¼-4¼ lbs. Asst. or 3½-4½ lbs. Asst.	Per Dozen Assorted 4-5 lbs.
No. 20GES—No 20 Axe with No GES Gilt Edge oval selected hickory handle	$46.48	46.98	
No. 22GES—No. 22 Axe with No GES Gilt Edge oval selected hickory handle	46.48	46.98	47.48
No. 20RS—No. 20 Axe with No RS Riverside oval selected hickory handle	42.06	42.56	
No. 22RS—No. 22 Axe with No. RS Riverside oval selected hickory handle	42.06	42.56	43.06
No. 2088S—No 20 Axe with No. 88S Riverside oval flexible oak handle	41.56	42.06	
No. 2288S No. 22 Axe with No. 88S Riverside oval flexible oak handle	41.56	42.06	42.56
No. 2055S—No. 20 Axe with No. 55S Riverside oval flexible oak handle	39.52	40.02	
No. 2255S —No. 22 Axe with No 55S Riverside oval flexible oak handle	39.52	40.02	40.52
No. 20GEL—No. 20 Axe with No GEL Gilt Edge Lbrm's selected hickory handle	46.48	46.98	
No. 22GEL—No. 22 Axe with No. GEL Gilt Edge Lbrm's selected hickory handle	46.48	46.98	47.48
No. 20RL—No 20 Axe with No. RL Riverside Lbrm's selected hickory handle	42.06	42.56	
No. 22RL—No. 22 Axe with No. RL Riverside Lbrm's selected hickory handle	42.06	42.56	43.06
No. 2088L—No. 20 Axe with No. 88L Riverside Lbrm's flexible oak handle	41.56	42.06	
No. 2288L—No. 22 Axe with No 88L Riverside Lbrm's flexible oak handle	41.56	42.06	42.56
No. 2055L—No. 20 Axe with No. 55L Riverside Lbrm's flexible oak handle	39.52	40.02	
No. 2255L—No. 22 Axe with No. 55L Riverside Lbrm's flexible oak handle	39.52	40.02	40.52
No. 20XLCRS—No. 20 Axe with No. XLCRS turned hickory handle	42.68	43.18	
No. 22XLCRS—No. 22 Axe with No XLCRS turned hickory handle	42.68	43.18	43.68
No. 201H—No. 20 Axe with No. 1H turned hickory handle	40.86	41.36	
No. 221H—No. 22 Axe with No. 1H turned hickory handle	40.86	41.36	41.86
No. 202H—No. 20 Axe with No. 2H turned hickory handle	39.46	39.96	
No. 222H—No. 22 Axe with No. 2H turned hickory handle	39.46	39.96	40.46
No. 20DA—No. 20 Axe with No. DA Diamond A turned hickory handle	40.42	40.92	
No. 22DA—No. 22 Axe with No. DA Diamond A turned hickory handle	40.42	40.92	41.42

DOUBLE BIT.

	Per Dozen Assorted 3-4 lbs	Per Dozen Assorted 3½-4½ lbs. or 3½-4½ lbs.	Per Dozen Assorted 4-5 lbs.
No. 26GED—No 26 Axe with No. GED Gilt Edge selected hickory handle	$55.48	55.98	56.48
No. 27GED—No. 27 Axe with No. GED Gilt Edge selected hickory handle	55.48	55.98	56.48
No. 26RD—No. 26 Axe with No. RD Riverside selected hickory handle	51.06	51.56	52.06
No. 27RD—No. 27 Axe with No. RD Riverside selected hickory handle	51.06	51.56	52.06
No. 2688D—No. 26 Axe with No. 88D flexible oak handle	50.56	51.06	51.56
No. 2788D—No. 27 Axe with No. 88D flexible oak handle	50.56	51.06	51.56
No. 2655D—No. 26 Axe with No. 55D flexible oak handle	48.52	49.02	49.52
No. 2755D—No. 27 Axe with No. 55D flexible oak handle	48.52	49.02	49.52
No. 261HD—No. 26 Axe with No. 1HD turned hickory handle	49.86	50.36	50.86
No. 271HD —No. 27 Axe with No 1HD turned hickory handle	49.86	50.36	50.86

NOTE—When ordering handled axes, always order by number and give weight of axe wanted.

AXES.

+CHIP CHOPPER.

Made from one piece refined cast steel, will meet the demand for a low-priced, satisfactory tool for general use. The eye is punched from the solid steel, insuring great strength, as they will not stretch nor open. The bit is tempered to withstand severe usage.

SINGLE BIT.
WISCONSIN PATTERN.
POLISHED BRONZE FINISH.

No. 61—Chip Chopper; polished and bronzed; Wisconsin pattern.

	Per Dozen
Weights, 3-3½ lbs. assorted	$28.00
Weights, 3½-4½ lbs. assorted	28.50
Weights, 4-5 lbs. assorted	29.00

One dozen in a wooden box.

DOUBLE BIT.
WISCONSIN PATTERN.
POLISHED BRONZE FINISH.

No. 66—Chip Chopper; polished and bronzed; Wisconsin pattern

	Per Dozen
Weights, 3-4 lbs. assorted	$30.00
Weights, 3½-4½ lbs. assorted	30.50
Weights, 4-5 lbs. assorted	31.00

One dozen in a wooden box.

What lies back of the brilliance of a MAZDA lamp? All the facilities of the world's greatest lamp-makers supporting the standards set by MAZDA Service. :: ::

MAZDA

"Not the name of a thing, but the mark of a service"

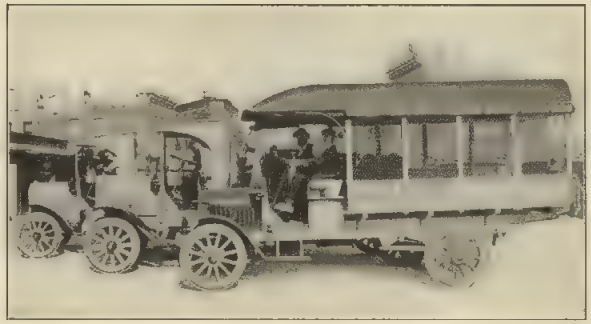
The Meaning of MAZDA

MAZDA is the trademark of a world-wide service to certain lamp manufacturers. Its purpose is to collect and select scientific and practical information concerning progress and development in the art of incandescent lamp manufacturing and to distribute this information to the companies entitled to receive this Service. MAZDA Service is registered in the Research Laboratories of the General Electric Company at Schenectady, New York. The mark MAZDA can appear only on lamps which meet the standards of MAZDA Service. It is thus an assurance of quality. This trademark is the property of the General Electric Company.

RESEARCH LABORATORIES OF GENERAL ELECTRIC COMPANY

46-40

GMC
GENERAL MOTORS COMPANY
TRUCKS



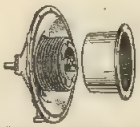
When Baltimore adopted GMC Trucks an unspoken testimonial was tendered the makers; for Baltiomre, as a municipality is authoritative.

Baltimore has made remarkable civic improvements; has "come back" after a ruinous fire; has taught her city neighbors valuable lessons in city government—has recognized the inherent worth of GMC Trucks.

In the water department, particularly GMC Trucks are serving the city with profit and satisfaction.

GMC Trucks are also doing public in thousands of other city departments over the country. This is because every resource is drawn on by the factory to build in satisfaction.

Seven parts exclusive of three small bolts and the plates make up the GMC Clutch. No lubrication is necessary.



In low gear, with the drive wheels locked the engine will stall before the clutch will slip.

Write to *Truck Headquarters.*

GENERAL MOTORS TRUCK COMPANY

One of the Units of the General Motors Corporation

Philadelphia Chicago PONTIAC, MICH. St. Louis San Francisco

(293)

GMC
TRUCKS

GMC Trucks provide pulley power

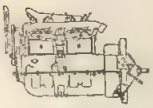
An interesting example of the versatility of the GMC Truck is the service it performs by means of the "take-off" winch attachment.

One of the practical uses of this feature is shown in the pole raising scene in the above picture which is reproduced from a photograph. The GMC Truck is being used for line construction at Camp Gordon near Augusta, Ga. Five other GMC Trucks have been purchased by the Southern Bell Telephone Company on the showing made.

The winch device can be attached to any GMC Truck, and it is very simply operated.

In loading heavy machinery on a truck and for many other uses, the winch will do the work of several men. It is a labor saver, a time saver, and a money saver.

Order your next GMC Truck with a winch attachment or add this inexpensive feature to your present equipment. You will find it a profitable investment.



Power Plant

The source of power the heart of the mechanism—a GMC engine is built for greater strength and endurance than will ever be called for during its life.

GMC engines are simple in construction and dependable in service. Three point suspension guarantees against strain. Adjustable parts are easily reached.

Write to *Truck Headquarters.*

GENERAL MOTORS TRUCK COMPANY

One of the Units of the General Motors Corporation

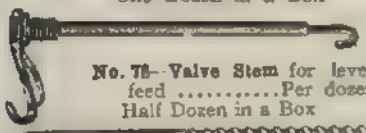
New York Boston Philadelphia PONTIAC, MICH. Chicago St. Louis San Francisco (315)

EXTRA PARTS FOR JUSTRITE CARBIDE LAMPS

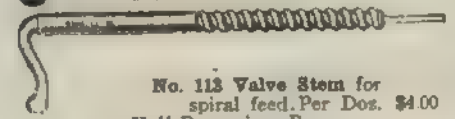
No. 60

No. 62

No. 60 Rubber Gaskets for lamps Per doz. $.30
No. 62 Felt Packing for lamps...Per doz. .30
One Dozen in a Box



No. 75—Valve Stem for lever feed .....Per dozen $4.00
Half Dozen in a Box



No. 113 Valve Stem for spiral feed. Per Doz. $4.00
Half Dozen in a Box

REPAIR PART OUTFIT

No. 2 Outfit—Contains 6 dozen No. 60 rubber gaskets, 3 dozen No. 62 felt packing, 1 dozen No. 64 felt holders, 1 dozen No. 74 tip cleaners, 12 dozen No. 66 burner tips.....Each $7.50

GASOLINE LAMPS

The Air-O-Lite gives five times the light of a big center draft oil lamp and twenty times the light of a common kerosene lamp, and does this at less than one-third the cost.

The fount of twenty gauge brass tested 200 pounds to square inch, has capacity of two quarts of gasoline. Burns 25 hours.

By air pressure the gasoline feeds from the bottom of fount up through the lamp stem. As the column of liquid rises, the heat of the mantles turns it into vapor, so we burn vapor, not liquid.

The burner is of solid rolled brass and nickel, the Air-O-Lite mantle is very durable- shade is 10-in. opal ribbed

Each lamp is equipped with 2 mantles, lighter, pump, wrench, hanger, extra asbestos filter, extra tip screen and set of cleaning tools for removing old and inserting new filter.

No. A307—Air-O-Lite.....Each $12.50
One in a Carton

GASOLINE LAMPS

This lamp is a trifle smaller, but in brilliancy, safety and all other essentials is equal to the No. A307 Air-O-Lite. It holds three pts. of fuel, burns 18 hrs, has automatic cleaner and filler plug. Has mellotone opal shade.

M322—Air-O-Lite .....Each $11.50
One in a Carton

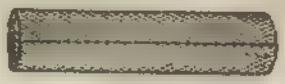
This lamp is similar in construction and general appearance to No M322, only it lights with matches instead of being generated with an alcohol torch The burner is supported by the air intake tube, which takes in the air below the mantles, where it cannot be affected by heat. It holds 3 pints, burns 18 hours, and is equipped with 2 mantles, pump, wrench, hanger, and extra generator. Has 10 inch opal ribbed shade.

No. Q307—Air-O-Lite.....Each $10.50
One in a Carton

FLAT LANTERN OR LAMP WICKS

No. 0— ½ in. wide .....Per gross $0.60
No. 1— ⅝ in. wide .....Per gross .75
No. 2—1 in. wide .....Per gross 1.10
No. 3—1½ in. wide .....Per gross 1.75
One Gross in a Package

CIRCULAR WICKS



For Rochester Lamps

No. 2—Rochester, 5 in. circumference, 6½ in. long.....Per dozen $1.25
No. 3—Rochester, 8½ in. circumference, 8¾ in. long ....Per dozen 1.50
One Dozen in a Bundle

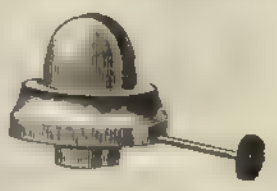
LAMP BURNERS

EAGLE

No. 1—Takes ⅝ in. wick.....Per dozen $1.50
No. 2—Takes 1 in. wick.....Per dozen 2.00
One Dozen in a Box

Fits No. 2 or 3 Collar
No. 3—Takes 1½ in. wick....Per dozen $4.00
One Dozen in a Box

LANTERN BURNERS



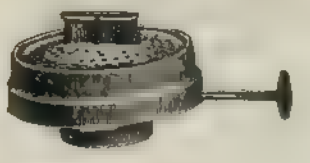
Hot Blast Tubular

No. 401—Size 1, tubular, takes ⅝ inch wick .....Per dozen $1.25
No. 462—Size 2, tubular, takes 1 inch wick .....Per dozen 1.75
One Dozen in a Box

Cold Blast Tubular

No. 262—Size 2, cold blast, takes 1 inch wick .....Per dozen $1.75
One Dozen in a Box

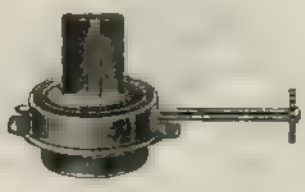
LANTERN BURNERS



Wizard Burner

No. 272—Size 2 Wizard takes 1 in. wick and fits Wizard and Blizzard Lanterns .....Per dozen $2.00

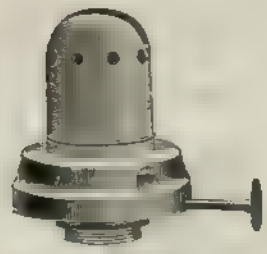
Two Dozen in a Box



Railroad

No. 1 Winglock—Size 1, long shaft convex, extra long ratchet stem for outside wick regulation, takes ⅝ inch wick and fits No. 39 railroad lanterns .....Per dozen $2.00

One Dozen in a Box



Driving

No. 510 Union—Size 0, for driving lamps, takes ⅜ inch wick..Per doz. $5.50

One Dozen in a Box

Street Lamp

No. 313 Pioneer—Size 3, cold blast burner, for street and hanging lamps, takes 1⅛ in. wicks.....Per dozen $6.00

One Dozen in a Box

LANTERN GLOBES

Tubular Tubular Bull's Eye

Diameter top 2 13/16 inches, bottom 3⅞ inches, bulge 4⅛ inches, height 6⅝ inches.

Tubular

No. OT—White—
1 dozen in box.....Per dozen $1.30
5 dozen in box.....Per dozen 1.05

No. OR—Ruby, solid color—
1 dozen in box..... Per dozen $3.70
5 dozen in box.....Per dozen 3.50

Tubular Bull's Eye

No. OTB—White, Bull's Eye—
1 dozen in box.....Per dozen $2.70

Cold Blast Cold Blast Bull's Eye

Diameter top 2¾ inches, bottom 3 5/16 inches, bulge 4⅛ inches, height 6¾ inches.

Cold Blast

No. OC—White—
1 dozen in box.....Per dozen $1.60
5 dozen in box.....Per dozen 1.30

No. OCR—Ruby, solid color—
1 dozen in box.....Per dozen $4.40
5 dozen in box.. .....Per dozen 4.10

Cold Blast Bull's Eye

No. OCB—Cold Blast Bull's Eye, 1 dozen in box.....Per dozen $3.00

Junior Junior Bull's Eye

Diameter top 2 5/16 inches, bottom 2¾ inches, height 5⅛ inches.

Junior

No. 10—Junior, cold blast, white, 1 doz. in box.....Per dozen $1.30

No. 10R Junior, cold blast, ruby, 1 doz. in box.....Per dozen $4.00

Junior Bull's Eye

No. 10B Junior Bull's Eye, white, 1 dozen in a box.....Per dozen $2.70

LANTERN GLOBES

Wizard Cold Blast Little Wizard Cold Blast

Diameter top 4 inches, bottom 3⅝ inches, height 4½ inches

Wizard Cold Blast

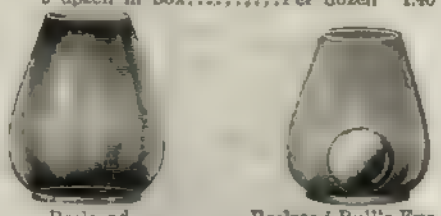
No. WCB—Wizard cold blast, white,
1 dozen in box.....Per dozen $1.70
5 dozen in box.....Per dozen 1.40

No. WCBR—Wizard cold blast, ruby—
1 dozen in box.....Per dozen $4.50
5 dozen in box.....Per dozen 4.20

Little Wizard Cold Blast

Diameter top 3¼ in., bottom 2 13/16 in., height 3 13/16 inches

No. LWCB—Little Wizard cold blast, white—
1 dozen in box..... . .Per dozen $1.70
5 dozen in box.....Per dozen 1.40



Railroad Railroad Bull's Eye

Diameter top 2⅛ inches, bottom 2⅝ inches, bulge 3 5/16 inches, height 5 inches.

No. 39—Railroad, white
1 dozen in box ... .Per dozen $1.80
5 dozen in box... ..... Per dozen 1.50

No. 39R—Railroad, ruby, solid color—
1 dozen in box.....Per dozen $4.40
5 dozen in box.....Per dozen 4.10

Railroad Bull's Eye

No. 39B—Railroad, white, bull's eye.
1 dozen in box.....Per dozen $3.00

Diameter top 1⅛ inches, bottom 1⅞ inches, height 4 inches.

Cadet

No. 2—Cadet white—
6 dozen in a box.....Per dozen $1.75

Diameter top, 4¼ inches, bottom 5 inches, height 8⅞ inches. For No. 40 search light.

Search Light

No. 4—Search light, white—
1½ dozen in box.....Per dozen $5.50

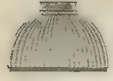
Diameter, top 5⅝ inches, bottom 6⅝ inches, bulge 8⅝ inches, height 10½ inches.

Street Lamp

No. 9—Street, white—
½ dozen in box..... ..Per dozen $6.00

SHADES.

FOR AIR-O-LITE.



Each

No. 307—White opal ribbed; diameter 10 ins.; weight each 2 lbs. **$2.00**

No. 307G—Green ribbed, white inside, diameter 10 inches, weight each 2½ pounds. 3.00

Half dozen in a carton.

Each

No. 318—Decorated in brown and tan tints with delicate vine and small pink roses. Diameter 11 inches; weight each, 3 pounds..... **$3.00**

Each

No. 317B—Etched shade with nickel band, producing a subdued light and is very restful to the eye. Diameter 11 inches; weight each 3 pounds..... **$2.50**

Each

No. 324—Etched and tinted in delicate green, decorated with six small pink wild roses; diameter inches 11 weight each, 3 pounds..... **$3.00**

Each

No. 329—A beautiful shade of mellotone opal glass, very attractive, diameter 11 inches, weight each 3 pounds **$2.00**

Each

No. QL327—Mica chimney for No. 319 Air-o-lantern, height 4½ inches, diameter top 6 inches..... **$1.20**

Four above shades one in a carton.

MISCELLANEOUS
FOR AIR-O-LITE LAMPS.

	Each		Each
Alcohol Bottle	$0.20	Pump Leathers.	$0.10
Lighting Torch	.20	Pump	1.00
Gas Tip Pick.... ...	.10		

REPAIRS.
FOR AIR-O-LITE LAMPS.

Per Set

No. E—Cleaning Set; containing set of cleaning tools, asbestos and screen **$0.30**

No. N18.

No. NA18.

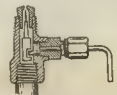
No. TC18.

Each

No. N18—Gas Tip; made for models MP and PB lamps, used only when lamp is not equipped with automatic cleaner..... **$0.30**

No. NA18—Gas Tip; standard for model A Air-o-Lite..... .30

No. TC18—Gas Tip; standard for tip cleaner No. 25..... .20



Each

No. MTC25—Tip Cleaner, standard for model M, P and PB Air-o-lite with gas tip complete. **$1.00**

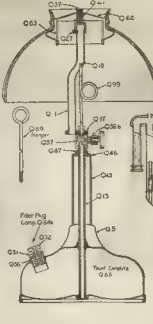
No. ATC25—Automatic Tip Cleaner, standard for model A Air-o-lite with gas tip complete..... 1.00

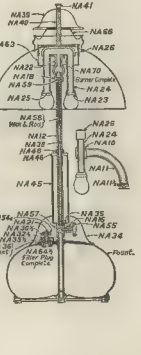
REPAIRS.

FOR AIR-O-LITE LAMPS.

MODEL CQ QUICK-LITE LAMP.

	Each
Q11—Burner support tube only	$0.60
Q17—Burner support casting .	.20
Q18—Gas tips....	.10
Q23—Burner cap complete	.30
Q24—Burner tube	.20
Q25—Burner cap screen	.05
Q26—Mixing chamber .	.80
Q42—Air gauge	.30
Q49—Heat bell gauze	.05
Q46—Lead gasket .	.05
Q37—Clamp screw	.10
Q41—Shade holder screw	.10
Q45—Handle	.20
Q40—Filler handle cap	.10
Q47—Handle lock nut	.10
Q50b—Valve stem and nut	.40
Q37—Valve complete	1.00
Q62—Shade clamp	.20
Q63—Universal shade holder	.40
Q64b—Filler plug complete	.80
Q65—Fount with filler plug	5.00
Q99—Hanger	.10
Q70—Burner, generator and valve assembled	3.50
Q99 Generator complete	.20
CQ—Wrench	.20



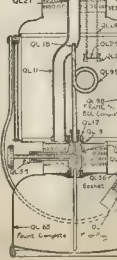


MODEL A AIR-O-LITE.

	Each
NA10—Air intake coupling . . .	$0.40
NA11—Air intake tube	.40
NA18—Gas tip . . .	.30
NA23—Burner cap complete . .	.30
NA24 Burner tube . . .	.20
NA25—Burner cap screen . . .	.05
NA26—Mixing chamber	.60
NA36—Filler plug gasket	.05
NA40—Heat bell screw . . .	.10
NA41—Heat bell screw . . .	.10
NA45—Handle . . .	.40
NA46—Handle cap. .	.10
NA48—Set collar and screw	.20
NA54a—Air stem complete . . .	.40
NA55-16—Valve stem and nut .	.40
NA57-16-55—Valve complete . .	1.00
NA58-12—Generator tube and wick	1.20
NA58-39—Filler wick and screen	.10
NA63—Universal shade holder .	.40
NA64½—Filler plug. . .	1.20
NA65—Fount with filler plug .	7.20
NA69—Hanger.	.10
NA70—Burner complete assembled. . .	4.00
Generator, top valve and handle	2.00
A—Wrench	.20

MODEL LQ LANTERN.

	Each
QL19—Burner frame washer	$0.10
QL32 Air stem . . .	.30
MS6—Rubber gaskets	.05
QL36—Lead gasket	.05
QL40—Ventilator rod. . . .	.10
QL41—Ventilator ball nut. . . .	.10
QL55—Valve stem and nut . . .	.40
QL57—Valve complete . . .	1.00
QL64b—Filler plug complete	.80
QL65—Fount with filler plug	6.00
QL70—Complete burner less valve and generator . . .	1.80
QL85—Ventilator . . .	2.40
CQ—Wrench	.20



LAMPS.

Lights With a Match, No Other Generating Required.

Quick-Lite Air-O-Lite is a match lighting gasoline lamp, no alcohol torch is needed Gives 300 candle power. Complete with shade, mantles, pump, wrench, hanger, cleaning pick and extra generator.

Each

No. CQ318—Same as illustration; fount holds 3 pints of oil. burns 18 hours with one filling; height, 22 inches; shipping weight, 10 lbs. **$13.00**

Each

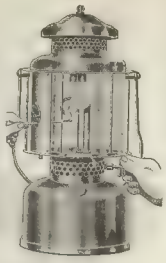
No. CQ324—As illustrated; shade is etched and tinted in delicate green, decorated with six small pink wild roses; diameter, 11 inches; otherwise same as No. CQ318. . . . . **$13.00**

Each

No. CQ329—As illustrated; shade is a beautful mellow tone opal glass, very attractive; diameter, 11 inches; otherwise same as No. CQ318. . . . . **$11.50**

See page 476 for Shades.

LANTERNS.



Quick-Lite Air-O-Lantern lights with a match through a door in the reflector, which forms a part of the chimney. Burns 15 hours on one filling, gives 300 candle power and is guaranteed to burn in any wind. One in carton complete with mantles, pump, wrench, cleaning pick and extra generator.

Each

No. QL327—Oil capacity, 2 pints; height, 14 inches; diameter, 6 inches; weight each packed, 6 lbs. **$10.80**

One in a carton.

ELECTRIC LAMPS.

WALLACE.

Delivers light exactly where you want it, stays put anywhere, clamps or stands wherever you want it.

Can be attached to window mirror or any non-porous surface. Has rubber suction cup that will grip instantly. Concealed in base is spiral spring for attaching to bed rod, dressing table, chair or nail; shade can be tilted in any position for reading, writing or shaving.

Can be attached to any socket; each lamp is furnished with eight feet of electric cord.

May be folded into a compact ball taking up very little room in a grip, just the thing for travelers.

Each.

No. 1WC—Dull brushed brass finish; height, 10 inches; width of shade, 4¾ inches; width of base, 4½ inches; length when folded, 6½ inches; weight each, 1 lb. . . **$4.20**

One in a carton.

Per Assortment

No. 12WC—Wallace Electric Lamp Assortment; consists of 12 lamps, 6 only brass, 2 only nickel, 2 only bronze and 2 only Verdi green; height, 10 inches; width of shade, 4¾ inches; width of base, 4½ inches; folded, 6½ inches; weight each, 1¼ lbs. **$56.00**

Packed one in a carton, 12 in a case.

See page 482 for Air-O-Lite Mantles.

MINNOW BUCKETS

* Mizzoo

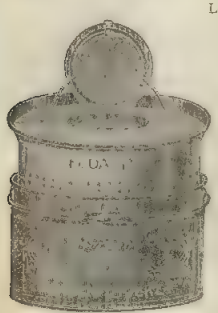
Oval

IX Tin Plate; Finished in Rich Light Green Enamel and Ornamented with Gold Bands and Fancy Designs; Top Edge Reinforced with Wire; Perforated Tin Inset with Deep Sunk Ice Pan Top; Gold Lacquered Top with Carmine Rim; Hinged, Self-Locking Perforated Cover on Inset; no Cover on Outside Bucket; Wire Bail with Black Enameled Hardwood Handle.

Non-Floating

No.	M8
Capacity, Quarts	8
Size, Inches	9 x6½x8
Weight per Dozen, Lbs.	26
Per Dozen	$27 00

Loose



* Mizzoo

Oval

IX Tin Plate; Finished in Rich Light Green Enamel and Ornamented with Gold Bands and Fancy Designs; Top Edge Reinforced with Wire; Perforated Tin Inset with Deep sunk Ice Pan Top; Gold Lacquered Top with Carmine Rim; Hinged, Self-Locking Perforated Cover on Inset; no Cover on Outside Bucket; Wire Bail with Black Enameled Hardwood Handle.

Floating, with Cone Shaped Air Chamber

Nos.	MF8	MF10
Capacity, Quarts	8	10
Size, Inches	9½x6½x8	10½x7½x8½
Weight per Dozen, Lbs.	28½	35
Per Dozen	$30.00	29.00

Loose

MINNOW AND FROG BUCKETS

***TRIUMPH MINIATURE, ROUND**

Intended for those Fishermen who Wish to Carry a Limited Number of Minnows, or Where Minnows are to be Transported Short Distances and then Retained in a Float in Lake or Stream Wherever Fishing is to be Done. Can Also be Used for Live Frogs.

Medium Tin; Body Lacquered Deep Blue, Gold Lacquered Perforated, Hinged Cover with Self Locking Clasp; Wire Bail.

Per Dozen

No. T2—Capacity 2 Qts.; Size 5x4¾ in.; Wt. per Dozen 5¼ lbs. $4 80

Loose

ROACH BUCKETS

Made Especially to Carry Live Roaches, One of the Best Baits for Bass Fishing. Per Dozen

No. RB1—Black Woven Wire Body Size 7½x6¼ inches; Dairy Tin Bottom and Sloping Top; Wire Bail Handle Fastened to Reinforced Uprights; no Cover; Roaches Cannot Escape on Account of Sloping Top; Weight per Dozen 7½ lbs. $8.00

Loose

No. RB2 Same as No. RB1 except Frame made of **Galvanized Iron** and Body made of **Bronze Wire Cloth** 12.00

Loose

ROACH TRAPS

These are the best Traps ever Invented for Catching Roaches. They are Clean and Sanitary, and Much More Desirable for Ridding a House of these Pests than Insect Powder or Poisons. A little Cheese, Potato Onion or Banana makes an Excellent Bait and one of these Traps will Catch all the Roaches on the Premises. Per Dozen

No. M—Black Japanned Wire Cloth Top; Tin Bound Edges; Natural Finish Hardwood Bottom; Diameter of Dome Top 5 inches, Size of Base, 5½x5½ inches; Height over all, 4¼ inches; Weight per Dozen 4½ lbs. $4 50

One Dozen in a Box

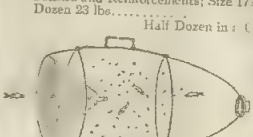
MINNOW TRAPS

GEE'S SURE CATCH

Can be Used in Any Water With Ice Frozen Over or Not. Open Ends; add the Bait, and it is Ready to Use. Bread, Meat or Other Substance Bait will Keep Fish in Trap Until Wanted. Water Makes it Very Attractive to Minnows. Its Shape (Two Truncated Cones Joined in the Middle, and Construction as Such as to Offer Least Resistance to the Water When in Use, the Two Halves Nest Together, so That with an Ordinary Pail the Trap Makes a Good Minnow Bucket. Per Dozen

No. GMT—Galvanized Woven Wire Body; Galvanized Steel Frame and Reinforcements; Size 17x8x7½ inches; Weight per Dozen 23 lbs. $19 20

Half Dozen in a Crate



ORVIS PATTERN

The Ease, Rapidity and Certainty of Securing Live Bait with This Trap Has Placed it Far Ahead of the Old Method of Using a Minnow Seine.

Place a Handful of Cracker Crumbs Inside the Trap, Attach a Cord to the Handle and Lower Trap Where Minnows Frequent. When Lowering into Deep Water, Fasten end of Cord to a Float so Trap Can be Readily Regained. Per Dozen

No. G1 Heavy Flint Glass Galvanized Steel Wire Handle and Legs, Size 15x8 inches. Weight per Dozen 118 lbs. $60 00

Twelfth Dozen in a Wood Box.

GETZ 'EM KANT BREAK

Can be Set in Running or Still Water; only Weighs 15 ozs. and Won't Break; no Parts to Rust or Come Apart. In a Stream the Door Goes up Stream; Attach a 3-foot Cord in Loop on End the Door is on; Crush Three or Four Crackers and Put in the Funnel End. Turn Funnel End Down. Press Trap to Water until Full. Attached to an Weight that Will Hold Trap at Water. When Using Trap in Still Water Use a Longer Cord than Trap Depth and Tie. See that an Air is Left in Trap. Per Dozen

No. G2—Made of ¼-inch Pyralin, Reinforced at Both Ends with Galvanized Steel Bands, Riveted to the Pyralin; Galvanized Steel Door and Handle; Brass Legs; Size 12x6½x6 inches; Weight 15 ozs. $54 00

One in a Carton; Weight per Dozen 22 lbs

Gibraltar Bumping Post

These Solid Steel Shoe Castings are designed to fit the contour of any size rail and have ample bearing surface on the tie at the end of the rail—each casting is bolted to the rail through the web of the rail by six ¾-inch bolts. The shoe castings are tied together and kept from spreading by a 1¼-inch tie rod with double nuts.

We continue the use of the very strong features of our post, viz.: The 9-inch 21-pound I beam anchor, 10 feet long, and also the 1¼-inch diameter U-bolt

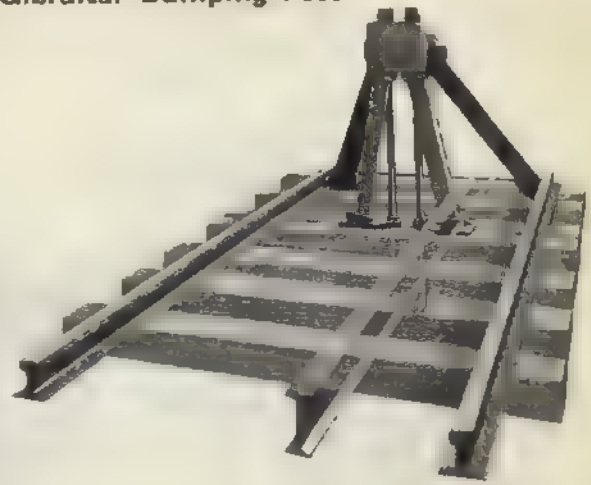


Fig. 44
Style B16 — Gibraltar Structural Steel Freight Post Side View

The whole combination is designed so as to make a perfect structure to resist shocks exerted on head casting without putting undue strain on any one part, whether same is in tension or compression.

Please note that this post will be shipped knocked down and one man can handle any of its parts. The installation is simple and the parts so fitted that no mistake can be made in setting it up

We have spent time and money in the production of an article that is strong, durable and efficient and meets all requirements at a price much less than any post offered on the market

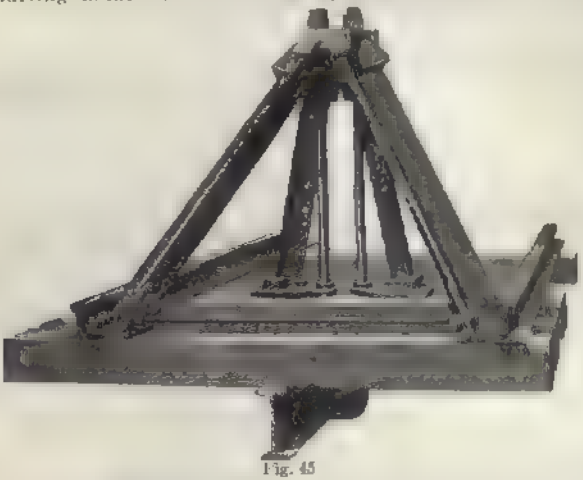


Fig. 45
Style B15 — Bumping Post — Rear View

The Gibraltar Bumping Post has a record of many years of service on a large number of the best railroad systems of this country and the same railroads continue to be our regular customers That answers the question of satisfactory service by the

Gibraltar Bumping Post

Prices each $80.00

Discount

Janney Coupler for Freight Cars

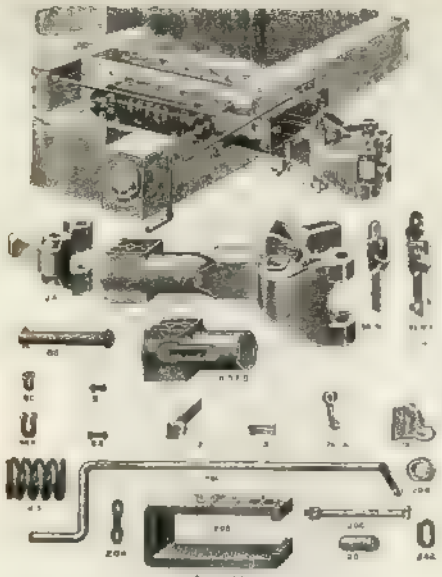


Fig. 46

List of Details Comprising One-Half Set

	Name		Name
No. 2A.	Knuckle, forged.	No. 91H.	Clevis Pin.
No. 86S	Coupler Casting.	No. 96WI	Locking Pin
No. 88	Knuckle Pin	No. 112	Uncoupling Lever Keeper
No. 90.	Clevis	No. 115.	Split Key
No. 90H	Clevis	No. 243A	Trigger, for Locking Pin 96WI
No. 91	Clevis Pin	No. 267	Uncoupling Lever Lock

This style of coupler (No. 86S) may also be applied with a draft bolt by using Draft Bolt Washer No. 208.

We can also furnish for application with spring pocket when desired Coupler Casting No. 86STs, the rear portion of which is also shown above. This style of coupler can be applied with a draft bolt by using Draft Bolt Washer No. 208, and it is also slotted for application with American continuous draft, as illustrated under "C."

List of Details Furnished on Special Order Only

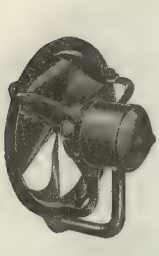
	Name		Name
No. 95	Draft Spring	No. 207	Draft Spring Ferrule
No. 204	Uncoupling Lever Chain	No. 208	Draft Bolt Washer
No. 205	Spring Pocket	No. 242	Uncoupling Lever Link
No. 206.	Draft Spring Bolt.	No. 296.	Uncoupling Lever

Write for Special Quotations

We furnish also all other standard makes

ILG VENTILATING.

SELF COOLED MOTOR.



For ventilating stores, offices, restaurants, theatres, lodge rooms, schools, industrial plants, etc. May be used either to blow in or exhaust air. Easy to install and positive in action.

The ventilation is accomplished by a vacuum created in front of the fan drawing air through a tube connecting the hood with outdoors. After passing around the motor the air is carried away with the general exhaust.

The fan motor is completely enclosed by a metal cover which protects it from dust, dirt and grease, which would destroy an open motor.

Every fan is given a careful heat and running test on the exact current, voltage and frequency on which it will be used.

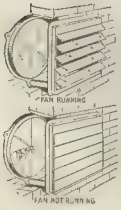
Finished in green enamel, very pleasing to the eye and very durable.

Each

*ILG—**Ventilating Fans;** size, 16 inches; 110 volts; Universal A. C. or D. C., approx. 1700 cubic feet of air per minute; uses 90 watts per hour; approx. weight each, 45 lbs $45.00

F. O. B. Chicago, Ill.

AUTOMATIC SHUTTERS.



ILG automatic shutters are used on the outside of propeller fans to protect fan when not running and to keep out wind, rain and cold.

Shutters are built of special hard rolled aluminum leaves pressed on Whiting alloy copper coated rod supported in cast iron frame.

When fan is running, shutter is held open by the force of the air current. When fan is shut off, shutter closes automatically by gravity.

Shutters are moisture proof and need no attention after they are installed.

Each

*ILG **Automatic Shutters;** size, 16 inches; weight each, 13 lbs $12.00

F. O.B. Chicago, Ill.

*For shipment from factory only.

POLAR CUB.

THE $6.85 FAN WITH TWO SPEEDS.

This new model will compare with the best fans that are being made. A staunch guard has been added to it and a stop having two speeds.

All parts are interchangeable. Frame is die cast. Cannot possibly get out of alignment. Bearings are integral part of the die-casting. Guard spot-welded, practically unbreakable. Fan adjustable to any angle. Breeze can be thrown in any direction. Base has hook for attaching to wall. Thoroughly insulated. Equipped with 8 foot cord and plug.

Lubrication (via wick). Light oil preferable; sewing machine oil best.

Shell. Standard die-casting. Material is special alloy which has been thoroughly tested.

Brushes. Square moulded carbon.

Switch. Made up with Ward Leonard Resistance Unit.

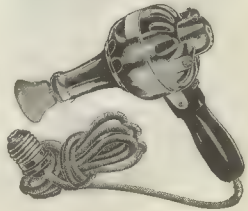
Voltage. Minimum 100, average 105 to 115, extreme 130 Safe-running at 125. Guaranteed from 100 to 130.

Speed. A. C. 110 volts, high speed 3000, low speed 2100. A. C. 125 volts, high speed 3500, low speed 2600. D. C. 110 volts, high speed 3400, low speed 3000.

Each

No. PC—Polar Cub; Height 8 inches, from base to top of guard, 6 inches to top of motor; diameter of blades, 6 inches; weight each complete, 3 lbs. $6.85

HOME VIBRATOR.



Vibrator complete with nickel plated motor, ebonized handle, plug and cord and three applicators. Will operate only on direct or alternating current, voltage between 100 and 130 and at a frequency of 60 cycles or less.

Each

No. B84 –Vibrator; height over all, 7 inches; width, 6 inches; weight each, 2¾ lbs. $6.85

NEW LIFE VIBRATORS.

The new Life Vibrator will relieve pain and give strength and vigor to the entire body. A few minutes application to the effected parts produces wonderful stimulation.

New Life Vibrators relieve headaches, neuralgia, indigestion, rheumatism, lame back, sore or stiff joints or muscles. If the scalp is full of dandruff or lacks life or lustre or if face is afflicted with blemishes, pimples, wrinkles, etc., New Life Vibrator is an excellent remedy.

Ten thousand electric impulses a minute may be obtained by simply attaching the New Life Vibrator to an electric light socket and switching on the current.

Electric vibratory massage has long been recognized as the most efficient remedy for ailments arising from congestion or imperfect circulation.

Vibratory massage applied to the effected parts quickly breaks up these obstructions in the blood channel and by stimulating the flow of blood causes the disease breaking toxins to be rapidly washed away.

TYPE "D"

Each

Type D.—Electric Vibrator; a light efficient vibrator for family use; may be instantly stopped or started by means of push button in handle; outfit consists of vibrator with 5 applicators nicely packed in black leatherette case; weight complete, 3½ lbs..... **$13.50**

TYPE "A"

Each

Type A.—Electric Vibrator; designed especially for home use; a beautiful instrument compact and strong and will give service to every member of the family; outfit consists of vibrator and 6 applicators all packed in a handsome black leatherette case lined with red satin; a speed regulating switch enables motor to run fast or slow; weight complete, 5 lbs..... **$18.50**

TYPE F

Each

Type F.—Electric Vibrator; similar to Type D, but has speed controlling device; outfit consists of vibrator and 6 applicators packed in handsome black leatherette case lined with red satin; weight complete, 5¾ lbs **$16.50**

TYPE C

Each

Type C.—Electric Vibrator; for physicians use or for nurses and masseurs; has powerful motor which produces deep penetrating vibrations; suitable for cases requiring energetic treatments; used widely in hospitals, sanitariums and turkish baths; outfit consists of vibrator and 6 applicators all packed in handsome black leatherette satin lined carrying case; weight of outfit complete 6 lbs.. **$25.00**

All above for both direct or alternating current.

SEW-E-Z.

Here's the wonderful little sewing machine attachment which runs the machine for you. You can sew without foot-pedaling; absolutely without the slightest effort. This simple little wonder-worker changes any sewing machine (old or new) into an electric self-operating labor saver. No matter what the make or style of your machine or how old it is, Sew-E-Z will relieve you of the treadmill grind of running it.

The little self-starter enables you to sew as slowly as you do now without the motor or as fast as you wish, up to 800 stitches a minute. Speed is regulated entirely by the degree of pressure from your foot on the little self-starter.

Sew-E-Z never falters. No jerks, no snapped threads. Just steady, silent motion which stops the instant you remove your foot from the little self-starter.

Easily adjusted, no tools or screws. Just place Sew-E-Z on your machine so that the little cork pulley bears lightly against the hand wheel; attach the plug to any electric light socket, then place the little pedal on the floor. A slight pressure of your toe starts the wheel. You are through forever with the drudgery of treadling.

Don't work your foot. Just press a bit harder to go faster. No effort is required; no exertion whatever. You can sit and sew in any comfortable position. So simple a child can operate it. Makes such light work that Grandma can use it.

Take it to the neighbor's—you can pack Sew-E-Z in a small parcel. No extra bulk. Sew-E-Z does a big work in a simple way and comes in small, compact, convenient form.

Five-year guarantee by the manufacturers, Hamilton-Beach Mfg. Company, Racine, Wis.

Packed with every Sew-E-Z is our five-year guarantee, your absolute insurance of satisfaction.

Each

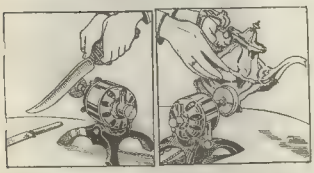
No. 12—H. B. Sewing Machine Motor, complete; weight each, 8½ lbs. **$15.75**

One in a box.

ELECTRIC MOTOR ATTACHMENTS.

TO BE USED IN CONNECTION WITH SEW-E-Z MOTORS.

GRINDER AND BUFFER.



The Carborundum grinder attached to Sew-E-Z motor will grind or sharpen all dull carving knives, kitchen knives, etc. It is easily attached and detached and does the work as quickly and easily as other power machines.

The buffer attachment may be used for all kinds of polishing; cleans and polishes silverware thoroughly. It is easily attached or detached to Sew-E-Z motor.

Per Set

No. GBA—Combination Grinder and Buffer Attachment Only; for use with Sew-E-Z motor **$1.25**

FAN.

Electric fan attachment for use with Sew-E-Z motor [illegible] easily attached or detached and are elegant air producers.

Equipped with four 8-inch polished brass blades.

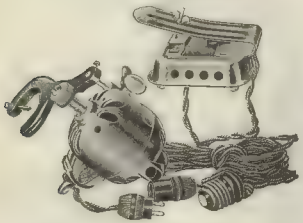
Each

No. FA—Fan Attachment Only; for use with motor; diameter of fan, 8 inches **$2.50**

POLAR CUB HOME MOTOR
AND
ATTACHMENTS.

Motor is easily convertible; with different attachments can be made to churn butter, whip cream, eggs, etc., polish silver, sharpen knives, electric fan and vibrator. Frame is die cast, bearings are an integral parts of casting, cannot get out of alignment, cast base, finished in rich velvet black. Fields and armatures wound with special enameled wire, thoroughly insulated. Motor is nickel plated, voltage 105 to 120, wattage, D. C. maximum 25, A. C. maximum 23; equipped with cords, plug and rheostat. Rheostat has special lock so that any desired speed may be obtained.

HOME MOTOR AND RHEOSTAT.



Each

No. B666—Home Motor and Rheostat; complete with base and sewing machine attachment; fits any standard machine; complete directions included; height over all, 5 inches; width, 6 inches; weight each, 4½ lbs.....**$12.00**

SEWING MACHINE ATTACHMENT.

With this attachment the Polar Cub Home Motor can be made to run sewing machines. It will fit any standard machine. Complete instructions included.

Each

No. B684—Sewing Machine Attachment; weight each, 1 lb . **$1.75**

VIBRATOR.

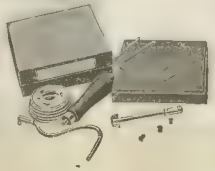
Consists of Vibrator arm, set screws, handle and three rubber appliances.

Each

No. B673 - Vibrator Attachments; weight each, 1 lb....**$2.50**

CHURN AND MIXER.

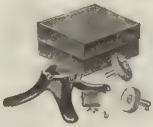
Consists of dasher, beater, bar supports, handle and top which will fit any Mason screw top jar.



Each

No. B670 - Churn and Mixer; weight each, 1½ lbs. ...**$1.25**

POLISHER AND GRINDER.

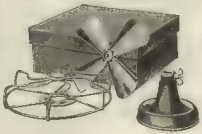


Consists of grinding wheel, polishing wheel, base and cake of polish.

Each

No. B672—Polisher and Grinder; diameter of grinding wheel, 2x⅜ inches, polishing, 1½ inches; weight each, ¾ lb.....**$1.25**

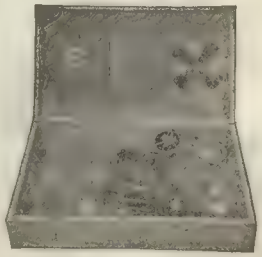
FAN.



Each

No. B671 Fan Attachment; size fan, 6 ins., guard, 7 inches; weight each, ¾ lb. ... **$1.25**

DELUX CABINET.



Consists of Home motor, base, rheostat, cord and plug, churn and mixer, polisher, grinder, vibrator, sewing machine and fan attachments. Packed in silk lined hardwood stained cabinet.

Each

No. B668—Delux Cabinet; size of cabinet, 5x12x20 inches; weight each, 8 lbs . **$22.00**

GILLETTE.

Per Set

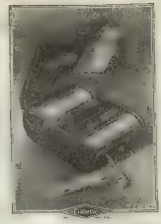
No. 460—Triple silver plated holder, twelve blades in a velvet lined morocco leather case $7.50

No. 460B—As No. 460, but with nickel plated all metal velvet lined case. 8.26

Per Set

No. 501—Basket patterned triple silver plated case, velvet lined, triple silver razor and blade box. Twelve double edge blades $7.50

No. 501B—Same as No. 501, but gold plated instead of triple silver... 9.00



Per Set

No. 17–Bulldog combination set, nickel plated bull dog razor, 12 double edge blades in nickel plated holder, mixed bristle shaving brush and large shaving stick soap in nickel plated holder, has 3½ x 3¼ inch indestructible mirror fitted in pocket on cover of case, seal grain leather case, size when closed, 5x3¾x1¼ inches..... $12.00

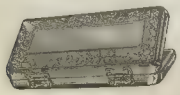
ARISTOCRAT.

The "Aristocrat", the latest production of Gillette designers.

Compact and most attractive.

Per Set

"Aristocrat"—French ivory case, velvet lined triple silver plated razor, twelve double edge blades, French ivory boxes for blades..... $9.00



Per Set

No. 503—Flower pattern, triple silver plated case, velvet lined, triple silver plated razor, twelve double edge blades..... $7.50

No. 500—As No. 503, but plain case.. 7.50

Per Set

"Bulldog"–Gray antique leather case oval shape, velvet lined, blade box to match, triple silver plated razor, twelve double edge blades... $7.50

Per Set

No. 461B Purple lined metal case, triple silver plated razor, twelve double edge blades, collapsible shaving brush, stick, shaving soap in nickel plated holder $11.25

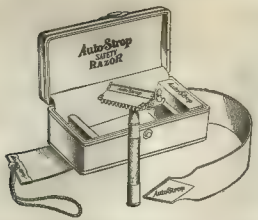
Per Set

No. 20—Soft roll leather case, triple silver plated razor and blade box, indestructible metal mirror, twelve double edge blades..... $7.50

Per Set

No. 00 Seal leather case, triple silver plated razor, rubberset badger hair shaving brush and stick soap in triple silver holders, twelve double edge blades..$11.25

Auto Strop SAFETY RAZOR Strops Itself



Each

No. 1—Auto Strop; black leather case, satin lined; size, 1⅛x2x4½ inches; silver plated self-stropping razor; one dozen, Auto Strop blades; one best quality oil finish strop; weight of each, ½ lb. **$7.50**

Per Package

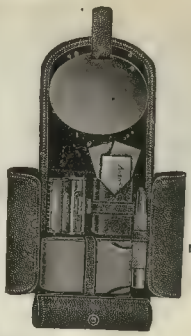
Auto Strop Extra Blades—6 in a package; 12 packages in a carton; retail at $0.50 ..... **$0.75**

Auto Strop Extra Blades—12 in a package; 12 packages in a carton; retail at $1.00 ..... **1.50**

Each

Auto Strop Extra Strops—Each in a package; six packages in a carton; retail at $0.50 ..... **$0.75**

Auto Strop Extra Strops—Style XX; extra long; special selection; each in a package; six packages in a carton; retail at $1.00 ..... **1.50**

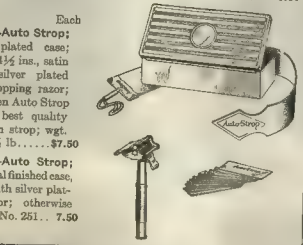


Auto Strop Traveling Outfit.

Each

No. 7—Auto Strop; black leather pin grained flexible case, pin grained leather lined; consisting of silver plated self stropping razor, set of 12 blades in holder, best quality oil finish strop; oval shape metal trench mirror; size of case when closed, 4¼ x 3½ x 1 inch; weight each, 5 oz. **$7.50**

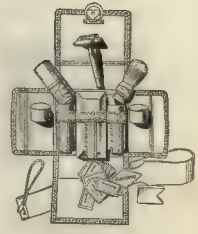
No. 8—Auto Strop; genuine pigskin case; otherwise as No. 7 ..... **7.50**



Each

No. 251—Auto Strop; nickel plated case; size, 2x4½ ins., satin lined; silver plated self stropping razor; one dozen Auto Strop blades; best quality oil finish strop; wgt. each, ½ lb. **$7.50**

No. 252S—Auto Strop; gun metal finished case, fitted with silver plated razor; otherwise same as No. 251 .. **7.50**

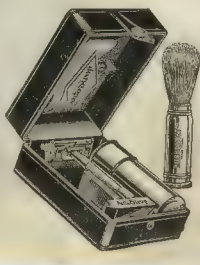


Each

No. 27—Auto Strop, Morocco grain black leather case, leather lined, box shape, size 5¼x5 inches; fitted with silver plated, self-stropping safety razor in a plain nickel-plated case, rubber set shaving brush and Colgate's shaving stick soap, in silver-plated, push bottom tubes; best quality oil finish strop, and 12 blades; weight, 1¼ lbs. ... **$12.00**

Each

No. 25—Auto Strop; Morocco grain black leather case, size 3¾x5 inches; silver plated self stropping razor; one dozen Auto Strop blades; fine quality Rubberset lather brush and shaving stick soap in silver plated push bottom tube; best quality oil finish strop; weight of each, 1 lb. ... **$11.24**



Each

No. 15—Auto Strop; Morocco grain black leather case, size 3¼x4¼ inches; silver plated self stropping razor; one dozen Auto Strop blades; best quality oil finish strop; nickel plated collapsible lather brush; stick of shaving soap in silver plated push bottom tube; wgt. of each, ¾ lbs. **$9.76**

CROW BARS.

WEDGE POINT.

Solid cast steel, oil finish for general use.

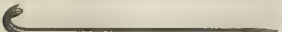
No.	W10	W14	W16	W18	W20	W25
Lgt. ft.	4	4½	4⅝	5	5	5½
Wgt. lbs.	10	14	16	18	20	25
Per lb.	$0.07	.07	.07	.07	.07	.07

PINCH POINT.

Solid cast steel, oil finish for general use.

No.	P10	P14	P16	P18	P20
Lgt. ft.	4⅛	4½	4⅝	5	5 1/6
Wgt. lbs	10	14	16	18	20
Per lb.	$0.07	.07	.07	.07	.07

CARPENTERS' RIPPING BARS.



Octagon, tool steel; claw at one end, chisel at other end.

Each

No. 5—Length over all, 11 ins.; width of chisel, ⅛ inch; weight per dozen, 9 lbs. $0.38

One dozen in a box.

No. 2—Length over all, 24 ins.; width of chisel, ¾ inch; weight each, 3 lbs. ..... .48

No. 30—Length over all, 30 ins.; width of chisel, ¾-inch; weight each, 3¼ lbs. ..... .50

In bulk.

MINING TOOLS.

Made from the best grade material obtainable, carefully tempered and thoroughly tested; all are well balanced.

BREAST AUGERS.

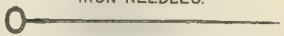
Adapted for soft coal; furnished with single and double crank.

Per Dozen

No. 36SC—Single Crank Breast Augers; length of auger, 36 inches; length over all, 87 inches; weight per dozen, 162 lbs. $51.00

No. 36DC—Double Crank Breast Augers; length of auger, 36 inches; length over all, 96 inches; weight per dozen, 216 lbs 57.20

IRON NEEDLES.



Per Dozen

No. IN6—Iron Needles; made of ½-inch round iron; length, 6 feet; weight per dozen, 30 lbs. $8.50

TAMPING BARS.

Made of 1-inch round iron, with copper tamp on end.

Per Dozen

No. TB6—Tamping Bar; length, 6 feet; weight per dozen, 186 lbs. $21.20

MINING PICKS.

Nos.	SE2	SE2½	SE3
Length, inches	17	18½	19½
Weight each, lbs.	2	2¼	3
Per dozen	$14.00	14.00	14.00

COAL PICK HANDLES.

Superior grade; medium sized eye to fit Nos. SE picks

Per Dozen

No. SG—Pick Handles; length, 24 inches; weight per crate, 31 lbs. $8.40

Two dozen in a crate.

RAILROAD PICKS.

+GILT EDGE.

Forged from extra cast steel; adze eye; black body; tool steel points welded in; ax finish; mechanically tempered, ground sharp and ready for use.

Weight, pounds	5 to 6	6 to 7
Per dozen	$14.00	15.00

Two dozen in a case. Average weight per case, 160 pounds.

+RIVERSIDE.

Forged from high grade cast steel; adze eye; black body and points; mechanically tempered.

Weight, pounds	5 to 6	6 to 7
Per dozen	$14.00	15.00

Two dozen in a case. Average weight per case, 160 pounds.

DRIFTING PICKS.

+RIVERSIDE.

Forged from high grade cast steel; adze eye; oil finish; mechanically tempered, ground sharp ready for use.

Nos.	R2	R3	R4
Length, inches	20½	21⅛	23
Weight, pounds	4	4⅛	5
Average weight per case, pounds	122	133	145
Per dozen	$14.00	15.00	16.00

Two dozen in a case.

MATTOCKS. 29

+GILT EDGE, AXE FINISH.

Adze eye, tipped with an extra portion of black diamond steel, blue finish polished hoe and cutter; ground sharp and ready for use. Per Dozen.

No. 5G—5 pounds, long cutter; width of hoe, 4 in.; width of cutter, 3 in.; length over all, 16¾ in. $16.00

No. 6G—6 pounds, long cutter; width of hoe, 4¼ in.; width of cutter, 3¼ in.; length over all 17 in. 17.00

Average weight of case, 130 and 154 pounds.
Two dozen in a case.

+RIVERSIDE, AXE FINISH.

Forged from selected crucible steel; adze eye; black finish, polished hoe and cutter; ground sharp and ready for use. Per Dozen.

No. 5R—5-lb. long cutter; width of hoe, 4 ins.; width of cutter, 3 ins.; length over all, 16¾ ins. $16.00

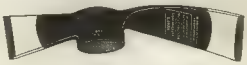
No. 6R—6-lb. long cutter; width of hoe, 4⅛ ins.; width of cutter, 3¼ ins.; length over all, 17¼ ins. 17.00

SHORT CUTTER.

No. 4R—4-lb. short cutter; width of hoe, 3¼ ins; width of cutter, 2½ ins; length over all, 14 ins. 16.00

Average weight of cases, 116, 130 and 154 pounds.
Two dozen in a case.

HUNT'S, AXE FINISH.



Forged from best refined cast steel; black finish; polished hoe and cutter; ground sharp and ready for use; width of hoe, 4⅛ ins.; width of cutter, 2½ ins.; length over all, 17¼ ins. Per Dozen.

No. H6A—6 pounds, long cutter, adze eye. $19.50

Average weight of case, 154 pounds. Two dozen in a case.

GRUB HOES.

+RIVERSIDE, AXE FINISH.

Forged from selected crucible steel; oval eye; black finish; polished cutter; ground sharp and ready for use.

Nos.	1	2
Weight, pounds	3½	4
Cut, inches	3¾	4
Per dozen	$13.00	13.50

Average weight of cases, 100, 115 and 135 pounds.
Two dozen in a case

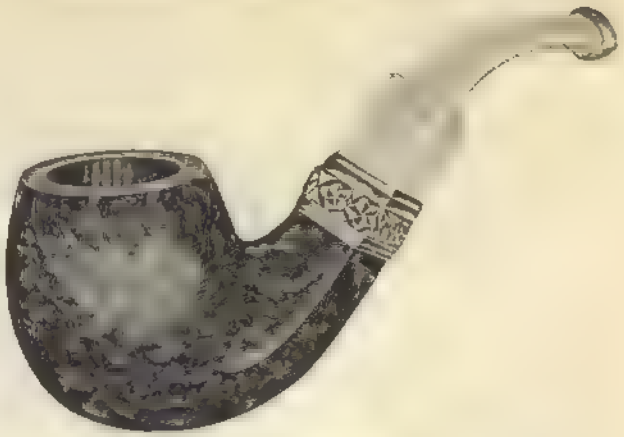
FINEST QUALITY GENUINE FRENCH BRIAR PIPES

FINE SELECTED AMBER STEMS

Cuts are exact size. Prices Each

All put up in fine Leather Cases

ORDERS FILLED SAME DAY RECEIVED NO DELAY

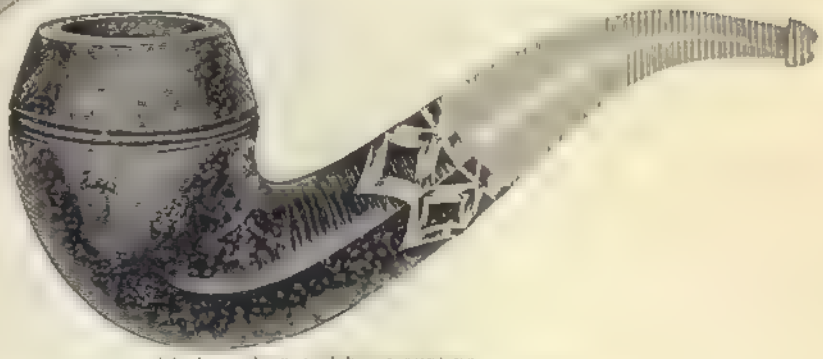


Gold filled, polished, chased mounting.
No 3944 ..... $5.50

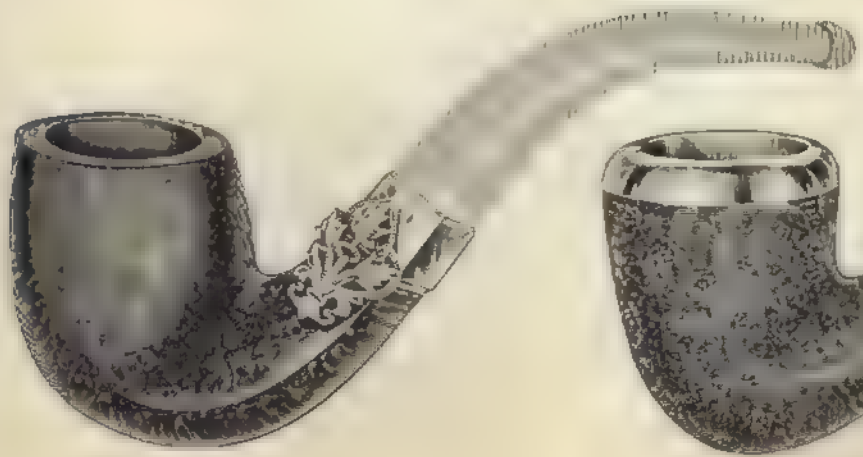
Gold filled, polished, chased mounting.
No 3945 ..... $5.75

Gold filled, yellow and green gold
No 3946 ..... $7.50

Gold filled, polished, chased mountings.
No 3947 ..... $7.50



Sterling silver, polished mounting
No 3948 ..... $8.25



Gold filled, rose gold mountings.
No. 3949 ..... $10.25

Gold filled, polished mountings
No 3950 ..... $8.25

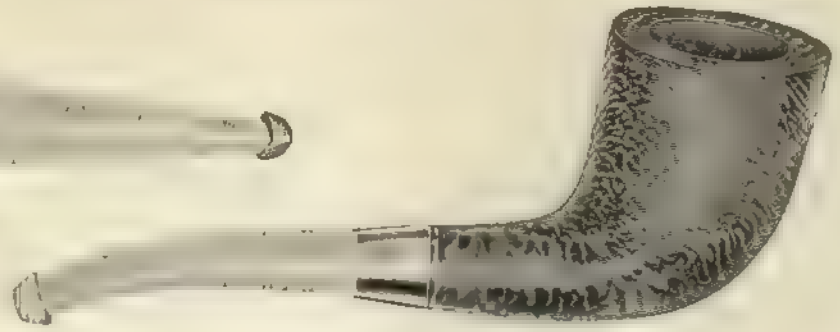
Finest Quality Genuine French Briar Pipes

Fine Selected Amber Stems. Put up in fine Plush Lined Leather Cases.

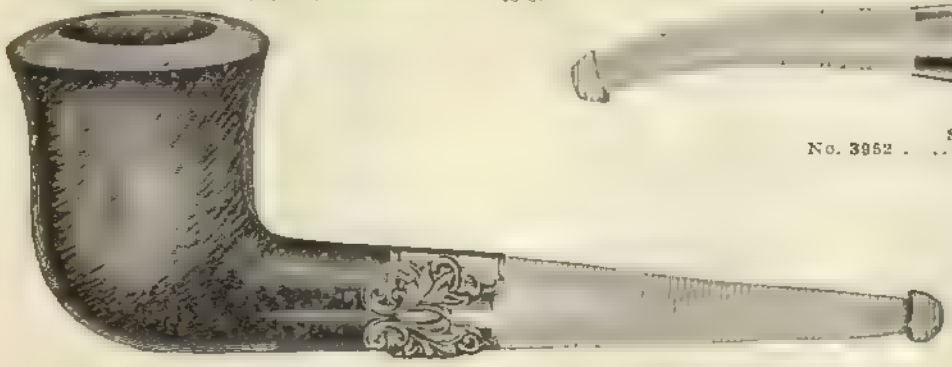
Illustrations are exact size.

PRICES EACH

No. 3951 Gold filled, polished, chased trimming $5.50

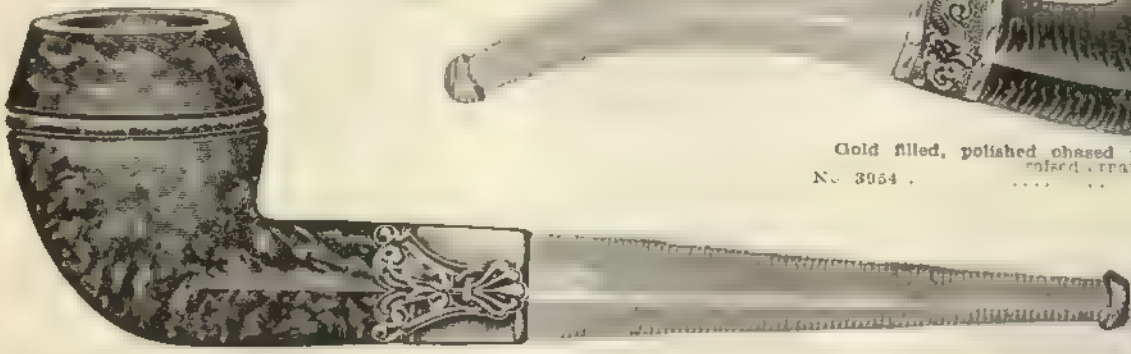


No. 3952 Sterling silver polished mounting $7.00

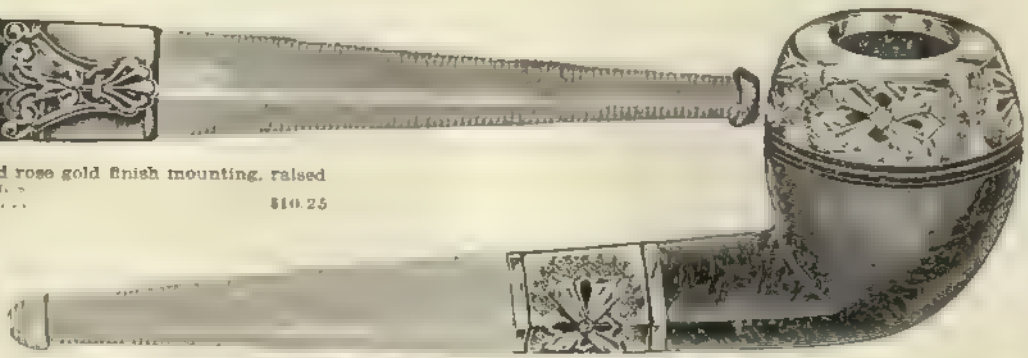


Gold filled, polished, chased trimming, sterling silver raised ornaments
No. 3953 ..... $9.00

Gold filled, polished chased trimming, sterling silver raised ornaments
No. 3954 ..... $9.75



Sterling silver, gold plated, Roman and rose gold finish mounting, raised ornaments
No. 3955 ..... $10.25

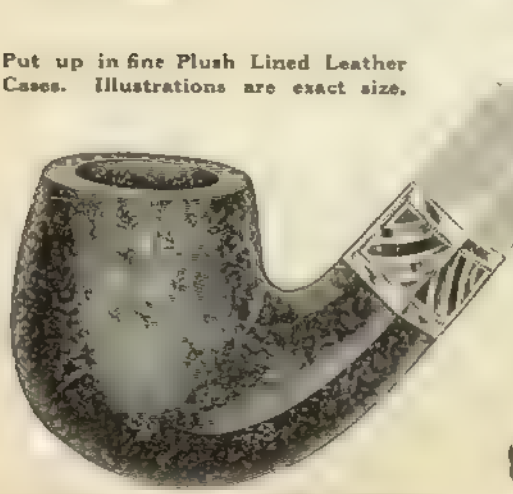


Gold filled polished chased trimmings No. 3956 ..... $9.50

Put up in fine Plush Lined Leather Cases. Illustrations are exact size.

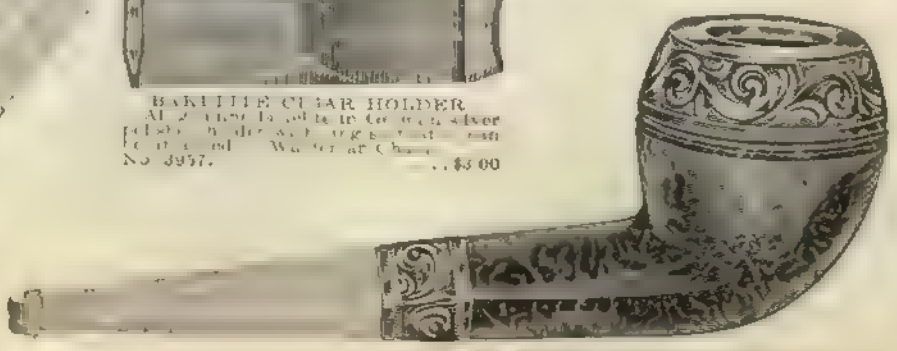
The New Bakelite Stem Pipes

Tasteless. Non-Inflammable. Odorless. Stronger and more Brilliant than Amber.



"Bakelite" sterling silver, polished mounting
No. 3958 ..... $7.00

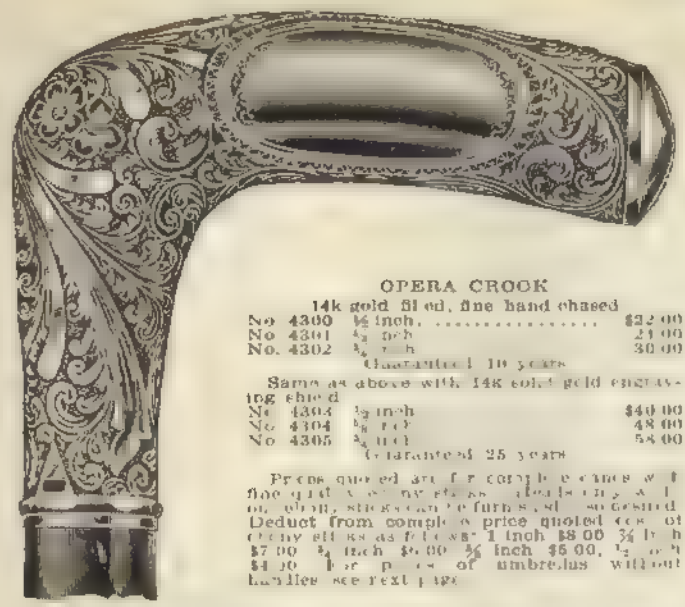
BAKELITE CIGAR HOLDER
Also made to fit Genuine Amber stem
No. 3957 ..... $3.00



"Bakelite" gold filled polished chased mountings
No. 3959 ..... $4.00

Fine Gold Filled and Silver Cane and Umbrella Heads

PRICES EACH



OPERA CROOK

14k gold filled, fine hand chased

No. 4300	½ inch	$32.00
No. 4301	⅝ inch	34.00
No. 4302	¾ inch	36.00

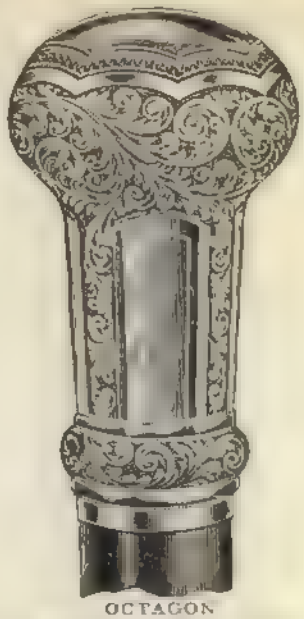
Guaranteed 10 years

Same as above with 14K solid gold engraving shield

No. 4303	½ inch	$40.00
No. 4304	⅝ inch	48.00
No. 4305	¾ inch	58.00

Guaranteed 25 years

Prices quoted are for complete canes with fine gold filled mountings as illustrated, and in oak, ebony, stag or cane to furnished as desired. Deduct from complete price quoted cost of ebony sticks as follows: 1 inch $8.00, ¾ inch $7.00, ⅝ inch $6.00, ½ inch $4.00. Prices of umbrellas without handles see next page.



OCTAGON

14k gold filled, fine hand chased

No. 4306	½ inch	$16.00
No. 4307	⅝ inch	20.00
No. 4308	¾ inch	24.00
No. 4309	1 inch	28.00

Guaranteed 10 years

Same as above with 14k solid gold top for engraving

No. 4310	½ inch	$32.00
No. 4311	⅝ inch	38.00
No. 4312	¾ inch	46.00
No. 4313	1 inch	54.00

Guaranteed 25 years.

DOME

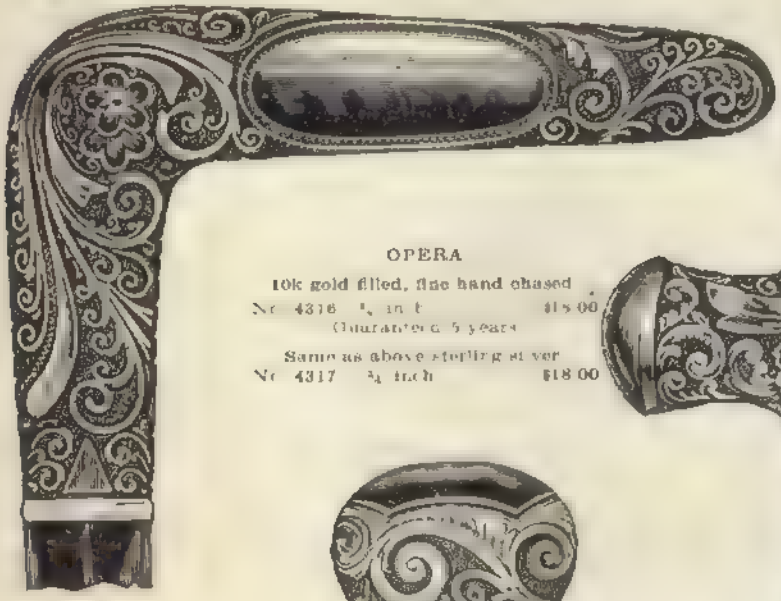
10k gold filled, fine hand chased

No. 4314 ¾ inch.... $18.00

Guaranteed 5 years

Same as above, sterling silver

No. 4315 ¾ inch.... $18.00



OPERA

10k gold filled, fine hand chased

No. 4316 ¾ inch $15.00

Guaranteed 5 years

Same as above sterling silver

No. 4317 ¾ inch $18.00

POLO

14k gold filled fine hand chased.

No. 4318	½ inch	$26.00
No. 4319	⅝ inch	30.00
No. 4320	¾ inch	34.00

Guaranteed 10 years

Same as above with 14k solid gold engraving shield

No. 4321	½ inch	$48.00
No. 4322	⅝ inch	58.00
No. 4323	¾ inch	66.00

Guaranteed 25 years

DOME

14k gold filled fine hand chased

No. 4326	½ inch	$18.00
No. 4327	⅝ inch	22.00
No. 4328	¾ inch	26.00
No. 4329	1 inch	32.00

Guaranteed 10 years

Same as above with solid gold top for engraving

No. 4330	½ inch	$32.00
No. 4331	⅝ inch	38.00
No. 4332	¾ inch	46.00
No. 4333	1 inch	54.00

Guaranteed 25 years.

CAP

14k gold filled, fine hand chased.

No. 4324 ½ inch... $20.00
No. 4325 1 inch... 24.00

Guaranteed 10 years.

POLO

10k gold filled, fine hand chased

No. 4334 ¾ inch..... $18.00

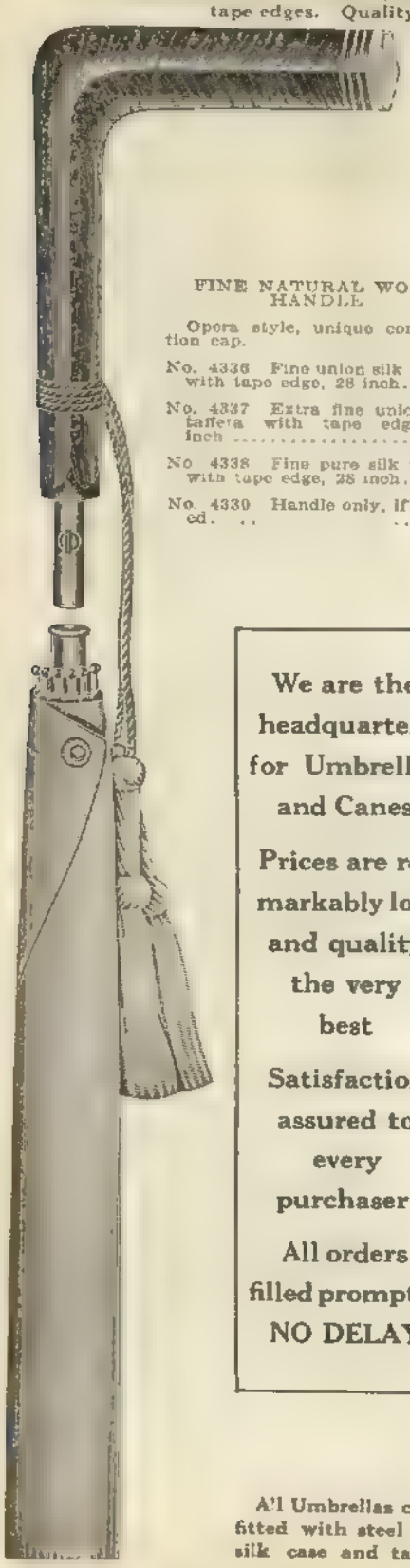
Guaranteed 5 years.

Same as above, sterling silver

No. 4335 ¾ inch..... $18.00

GENTLEMEN'S FINE BLACK SILK UMBRELLAS AND CANES

All come with Patent Detachable Handles Simple and Reliable. Fitted with steel rods, silk cases, tassels, cords and tape edges. Quality Guaranteed. Illustrations of handles are one-half size. Prices Each



FINE NATURAL WOOD HANDLE

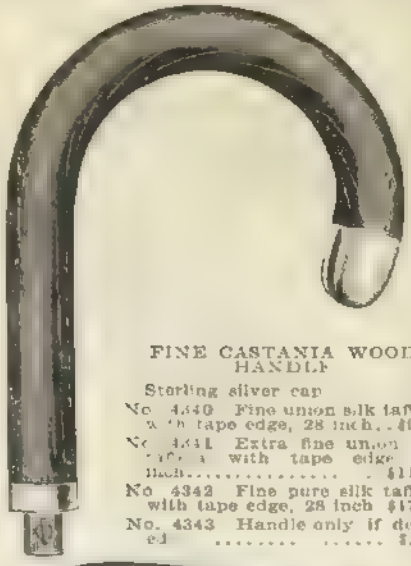
Opera style, unique combination cap.

No. 4336 Fine union silk taffeta with tape edge, 28 inch.. $9 90

No. 4337 Extra fine union silk taffeta with tape edge 28 inch $11 80

No. 4338 Fine pure silk taffeta with tape edge, 28 inch. $17 65

No. 4339 Handle only, if desired. $2 10



FINE CASTANIA WOOD HANDLE

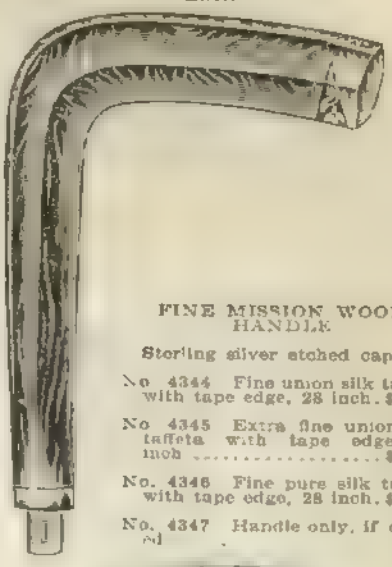
Sterling silver cap

No. 4340 Fine union silk taffeta with tape edge, 28 inch.. $9 90

No. 4341 Extra fine union silk taffeta with tape edge, 28 inch..... $11 80

No. 4342 Fine pure silk taffeta with tape edge, 28 inch $17 65

No. 4343 Handle only if desired $2 10



FINE MISSION WOOD HANDLE

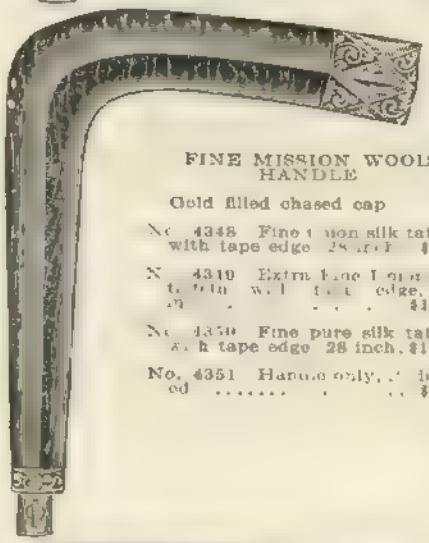
Sterling silver etched cap

No. 4344 Fine union silk taffeta with tape edge, 28 inch. $10 95

No. 4345 Extra fine union silk taffeta with tape edge, 28 inch $12 85

No. 4346 Fine pure silk taffeta with tape edge, 28 inch. $18.70

No. 4347 Handle only, if desired . $3 15



FINE MISSION WOOD HANDLE

Gold filled chased cap

No. 4348 Fine union silk taffeta with tape edge 28 inch $9 90

No. 4349 Extra fine union silk taffeta with tape edge, 28 inch $11 80

No. 4350 Fine pure silk taffeta with tape edge 28 inch. $17.65

No. 4351 Handle only, if desired $2 10

FINE POLISHED CAPE HORN HANDLE

Sterling silver etched band.

No. 4352 Fine union silk taffeta with tape edge, 28 inch. $12 00

No. 4353 Extra fine union silk taffeta with tape edge, 28 inch..... $13 90

No. 4354 Fine pure silk taffeta with tape edge, 28 inch. $19 75

No. 4355 Cane to match.. $8.40

No. 4356 Handle only, if desired..... $4.20

We are the headquarters for Umbrellas and Canes

Prices are remarkably low and quality the very best

Satisfaction assured to every purchaser

All orders filled promptly NO DELAY

All Umbrellas come fitted with steel rod, silk case and tassel.

FINE BUCK HORN HANDLE

Sterling silver band

No. 4357 Fine union silk taffeta with tape edge, 28 inch. $12 00

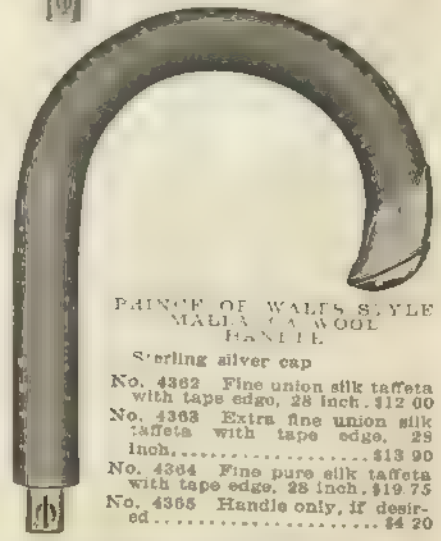
No. 4358 Extra fine union silk taffeta with tape edge, 28 inch..... $13 90

No. 4359 Fine pure silk taffeta with tape edge, 28 inch. $19 75

No. 4360 Cane to match... $8 40

No. 4361 Handle only, if desired..... $4 20

Price of Umbrellas without Heads. No extra charge for fitting.



PRINCE OF WALES STYLE MALACCA WOOD HANDLE

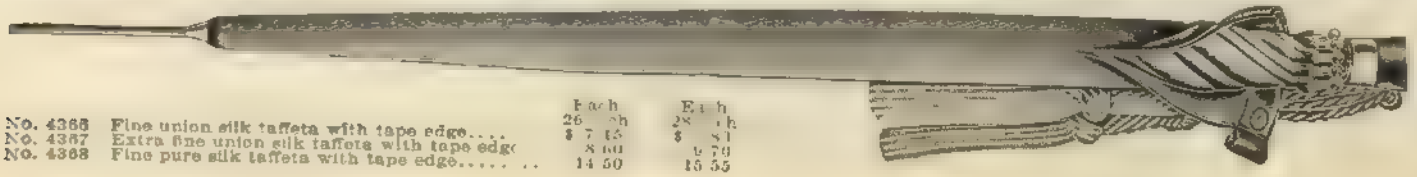
Sterling silver cap

No. 4362 Fine union silk taffeta with tape edge, 28 inch. $12 00

No. 4363 Extra fine union silk taffeta with tape edge, 28 inch..... $13 90

No. 4364 Fine pure silk taffeta with tape edge, 28 inch. $19 75

No. 4365 Handle only, if desired..... $4 20



		Each 26 inch	Each 28 inch
No. 4366	Fine union silk taffeta with tape edge....	$ 7 45	$ 81
No. 4367	Extra fine union silk taffeta with tape edge	8 60	9 70
No. 4368	Fine pure silk taffeta with tape edge..... ..	14 50	15 55

THE MAN WITH THE MACHINE

Is the man who gets results in road and street making.

We furnish machines for every class of street work — Grading, Crushing, Rolling and Oiling.

The Little Winner Light Reversible Road Machine. Used with two, three or four horses. Keeps dirt roads and streets smooth and level at little expense.

Corrugated Metal Culvert Pipe. Easy to handle. Convenient to lay. Made in many different sizes, from 8" to 72" diameter.

Labor shortages and freight embargoes mean delayed shipments. The only remedy is to order early. If you would have your machinery on time, Order NOW.

Our catalogue, "Everything for the Road Maker" is an interesting and instructive book. A copy is yours if you ask for it.

The Monarch Pressure Distributor applies light oils and tar products. Capacity 600 gallons. Furnished for horse or auto truck power. We also furnish a complete line of Heating Kettles.

The Champion Portable Rock Crushing Outfit. Made in many sizes from 60 to 300 tons daily capacities.

Monarch Tandem Roller. Made in 5, 6, 9, and 10 ton sizes.

Inquiries will receive cheerful attention.

THE GOOD ROADS MACHINERY COMPANY

Kennett Square, Pa.

A *Little Giant* in the Garage

Saves Time—Labor—Expense

(Cuts both United States and S. A. E. Standard Threads)

BOLTS and nuts will become bruised, rusted or broken. But there's no need to send to the factory for new parts. With a set of Little Giant taps and dies a new bolt can be made easily and quickly or a bruised thread cleaned up so the nut will turn on.

The illustration shows a repairman running over a bruised spring shackle bolt with a bit brace die holder used in an ordinary bit stock—a convenient tool for hard-to-get-at places.

Curtailment of automobile production means increased repair work on old cars, consequently increased demand for tools for the work.

Private owners as well as garages find Little Giant taps and dies easy cutting and long lived tools.

Get in touch with our proposition for the sale of auto repair tools. Catalog free.

Greenfield Tap and Die Corporation

Greenfield, Massachusetts, U. S. A.

New York, 28 Warren St.
Chicago, 13 South Clinton St.

Canadian Plant, Wells Brothers Company of Canada Limited, Galt, Ontario

Practically
Indestructible
The "Wells" Pipe Wrench is reinforced where the strains come. They're strong where strength is needed.
"Wells"
Wrenches
Grip For Keeps
They cling fast but never bind.
Send for literature and prices.
Pipe Tool Division
Greenfield Tap & Die Corp.
Greenfield, Massachusetts, U. S. A.
New York, 28 Warren St.; Chicago, 19 South Clinton St.
GTD
Forged
for service

Wrenches for Every Industry

Car builders and car repairers find Whitman and Barnes Wrenches to be bigger than any wrench job—they take hold and hang on until released.

Whitman and Barnes Drop Forged Wrenches are made in all standard sizes to meet wrench requirements in all metal-working, mechanical and operating lines.

Sixty-four years' study of materials and methods goes into every Whitman and Barnes Wrench. It's because of the goodness that is put into them that greater wear and longer life come out.

The "W. & B." in the Diamond Trade Mark appears on every Whitman and Barnes Wrench. Discriminating workmen have insisted on this mark on wrenches for a lifetime.

The Whitman & Barnes Mfg Co. Established 64 Years

Makers of Highest Grade Drop Forgings and Screw and Drop Forged Wrenches

General Offices: Akron, Ohio.
Factories: Akron, O., Chicago, Ill., St. Catharines, Ont.
New York Offices and Store: 64 Reade Street.

Export Office
A. J. Barnes, Mgr., 90 West St. New York City
European Office:
139 Queen Victoria St., E. C., London, England

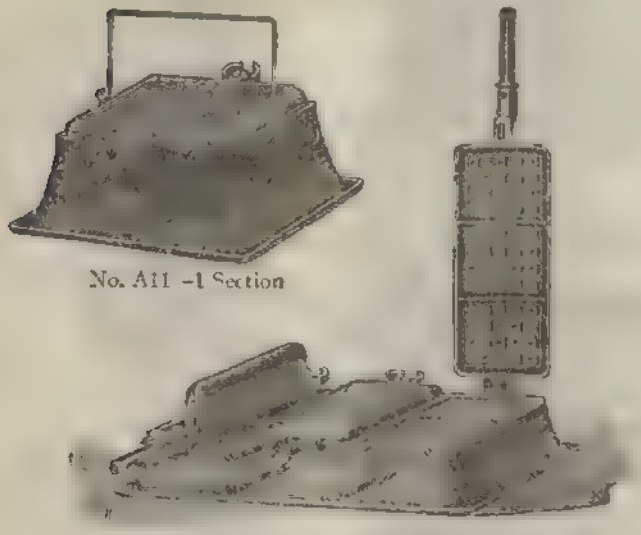
WAFFLE IRONS
CAST IRON

AMERICAN REVOLVING

Extra Finished Cast Iron; Black Japanned Rim; Air Cooled Handles on Griddle.

Nos	A7	A8	A9
Diameter Pan, Ins.	6¾	7¾	8⅝
Diameter Ring, Ins.	8¾	9⅞	10⅝
For Stoves, Nos.	7 or 8	8 or 9	9 or 10
Weight Dozen, Lbs.	78	99	120
Per Dozen	$24.00	26 50	29.50

Loose



No. A11 –1 Section

No. A13—3 Sections

AMERICAN

Extra Finished Cast Iron; Black Japanned Base; Revolving Pans; Black Enameled Wood Handles.

Nos	A11	A12
Number Sections	1	2
Size Pan, Inches	6¼x6¾	9½x4
Size Cake, Inches	3¼x3¼	3x4
Size Frame, Inches	10x10	11x12
Weight Dozen, Lbs.	132	186
Per Dozen	$30.00	55.00

Nos	A13	A14
Number Sections	3	4
Size Pan, Inches	9½x4	9½x4
Size Cake, Inches	3x4	3x4
Size Frame, Inches	15x12	19x12
Weight Dozen, Lbs.	270	360
Per Dozen	$82 00	110.00

Loose

WAFFLE IRONS
CAST IRON

DEEP RING

Specially Designed for Gas and Vapor Stoves; Can be Used on Nos. 8 or 9 Coal Stoves or Ranges. Cast Iron Base; Black Japanned Air Cooled Handles on Griddle; Height Over All 4 inches.

Nos.	A8D	A9D
Diameter Pan. Inches	7¾	8⅝
Diameter Base, Inches	10½	12¼
Weight Dozen, Lbs.	127	162
Per Dozen	$31.00	38 50

Loose

ALUMINUM

AMERICAN – REVOLVING

Cast Aluminum Waffle Mould; Air Cooled Handles on Griddle; Cast Iron Base, Black Japanned.

Nos.	A608	A609
Diameter Pan, In.	7¾	8⅝
Diameter Ring	9⅞	10⅝
For Stoves Nos.	8 or 9	9 or 10
Weight per Dozen	90	110
Each	$5.50	6.50

Loose

DEEP RING

Specially Designed for Gas and Vapor Stoves; can be used on Nos. 8 or 9 Coal Stoves or Ranges. Cast Aluminum Waffle Mould; Air Cooled Handles on Griddle; Cast Iron Base, Black Japanned; Height over all 4 inches.

Nos.	A618	A619
Diameter Pan, In	7¾	8⅝
Diameter Base, In.	10½	12¼
Weight Dozen, lbs	120	150
Each	$6.00	7.50

Loose

PORTABLE OVENS

Fully Guaranteed

FOR GAS, GASOLINE, ALCOHOL AND OIL STOVES

Asbestos Lined Throughout—Full Tin Lined Large Mica Window Alaska Door Handle—Perfectly Ventilated

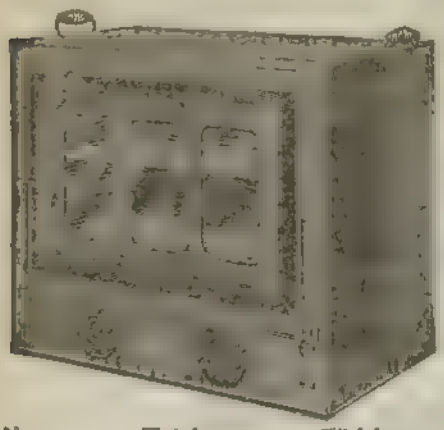
Made of Polished Blue Steel, Highly Polished Surface, Uniform Blue Color, Heat will not discolor or change appearance.

Ovens are Full Lined, this Lining forming a Wide Flue or Air space between the Outer Body of the Oven and the Lining itself, the Side and Back Linings are Corrugated and Stamped out of One Piece, making them Extra Strong and Durable. This system of Ventilating insures the greatest possible **Economy of Heat and the most thorough Ventilation.**

The Grates are made of Heavy Straightened Wire, securely Fastened together at the ends, making the most Durable Grate for this purpose of any on the Market.

The Glass Doors are Patented and we claim to have the only Correct Method of holding the Glass in position so as to secure the proper Expansion and Contraction when Oven is in use. We Guarantee every Glass Door Oven against Breaking from Heat, should a Glass be broken accidentally, it is a **very simple and inexpensive matter to replace it.**

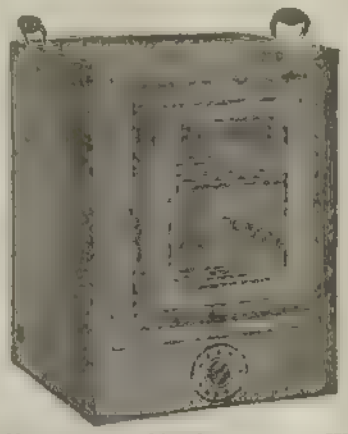
Patented Heat Deflector distributes the Heat to all parts of the Oven, insuring a uniformity of Heat which permits Baking to be done on the Upper Shelf as on the Lower Shelf. It also prevents burning the Bottom of Articles to be Baked. Deflector is Removable and can be replaced in a few **Seconds without removing a Single Bolt or Screw.**



***BLUEBELLE**
Drop Door
Blue Enameled Front
Made of Polished Blue Steel

No.	Height	Width	Depth	Each
Bluebelle	18 in.	20¾ in.	12½ in.	$7.20
755 (Boss)	18 in.	20¾ in.	12½ in.	7.20

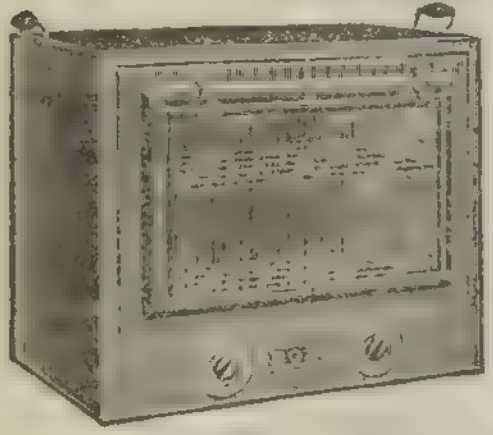
One in a Crate, 28 lbs.



BOSS
Swing Door
Blue Enameled Front
Made of Polished Blue Steel

No.	Height	Width	Depth	Each
705	18 in.	13 in.	12½ in.	$6.70

One in a Crate, 19 lbs.



BOSS
Drop Door
Made of Polished Blue Steel

No.	Height	Width	Depth	Each
750	18 in.	20¾ in.	12½ in.	$6.50

One in a Crate, 24 lbs.

BOSS
Swing Door
Made of Polished Blue Steel

No.	Height	Width	Depth	Each
700	18 in.	13 in.	12½ in.	$6.00

One in a Crate, 17 lbs.

BOSS—SUCCESS
Drop Door
Made of Polished Blue Steel

No.	Height	Width	Depth	Each
125	16½ in.	19½ in.	11½ in.	$5.80

One in a Crate, 21 lbs.

BOSS—SUCCESS
Swing Door
Made of Polished Blue Steel

No.	Height	Width	Depth	Each
115	16½ in.	12 in.	10½ in.	$5.40

One in a Crate, 14 lbs.

GUITARS

No. 91249 Birch back and sides, enlarged model, rosewood finish, imitation mahogany neck, walnut finger-board, pearl position dots, inlaid sound-hole, strung with steel strings, broad strip down center of back ..... Each $10 40

No. 91259 Concert size, same description as 91249. ..... Each 10 40

No. 91250 Birch back and sides, enlarged model, mahogany finish, imitation mahogany neck, walnut finger-board, pearl position dots, inlaid sound-hole, nickel-plated tail piece, fancy colored wide stripe on back, strung with steel strings. ..... Each 10 40

No. 91252 Birch back and sides, enlarged model, imitation rosewood finish, mahogany finish neck, walnut finger-board, pearl position dots, inlaid sound-hole, celluloid bound edge, fancy colored stripe on back, nickel-plated tail piece, strung with steel strings ..... Each 13 20

No. 91262 Concert size, same description as 91252.. ..... Each 14 80

No. 91253 Antique oak back and sides, enlarged model, rubbed finish, imitation mahogany neck, rosewood finger-board, pearl position dots, inlaid sound-hole, fancy colored wood stripe on back, nickel-plated tail piece, strung with steel strings ..... Each 15 20

No. 91255 Fine imitation rosewood finish back and front edges neatly bound with celluloid, fancy colored wood inlaying around sound-hole, inlaid stripe down center of back, ebonized finger-board, pearl position dots, brass patent heads, metal tail piece, steel strings. ..... Each 15 60

No. 91265 Concert size, same description as 91255... ..... Each 16 20

No. 91256 Solid mahogany, dark finished, hand rubbed, both edges neatly bound with white celluloid, fancy colored wood inlaying around sound-hole and edges and down center of back, ebonized finger-board, pearl position dots, rosewood veneered head piece, brass patent heads, steel strings, ebonized bridge Each 17 20

AMERICAN MAKE GUITARS

Note these advantages in purchasing Guitars of our make. You secure for your trade:

1. The only Guitars having a mathematically correct finger-board.
2. Guitars made from thoroughly seasoned material by skilled workmen, working in daylight.
3. Guitars whose patent heads have no "lost motion."
4. Guitars that possess a clear, far-carrying musical tone
5. Guitars of the most graceful model ever designed.

STANDARD SIZE.

No. 9490 Mahogany finish back and sides, hand-polished, spruce top, fancy colored wood inlaying around sound-hole, edge inlaid and bound with celluloid, neck mahogany finish, finger-board with pearl position dots, our own make nickel-plated patent head, No. 930 metal tail piece, nickel plated, strung with steel strings..... Each $15 80

No. 9505 Dark mahogany finish back and sides, hand polished, spruce top, fancy colored wood inlaying around sound-hole, edge inlaid with fancy colored woods and bound with celluloid, neck mahogany finish, finger-board with pearl position dots, our own make nickel plated patent head, No. 930 metal tail piece, nickel plated, strung with steel strings... ..... Each 16 00

No. 9615 Birch back and sides, dark mahogany finish, hand polished spruce top, broad, fancy colored wood inlaying around sound-hole and edge, top and back edges bound with celluloid neck mahogany finish finger-board with pearl position dots, our own make nickel-plated patent head, No. 930 metal tail piece, nickel plated, strung with steel strings ..... Each 17 40

THREE-QUARTER SIZE.

No. 9610 Same description as No. 9615, Three-Quarter Size, strung with steel strings on metal tail piece No. 930..... Each 17 40

STANDARD SIZE.

No. 9620 Beautifully figured birch back and sides, dark mahogany finish hand polished spruce top, fancy colored wood inlaying around sound-hole, bordered inlaying on edge top and back edges bound with celluloid fancy inlaid stripe in back, neck mahogany finish, veneered head piece rosewood finger-board, pearl position dots, our own make nickel plated patent head No. 937 metal tail piece, nickel plated, strung with steel strings Each 21 60

No. 9725 Birch back and sides, rosewood finish spruce top, broad fancy colored wood inlaying around sound-hole and edge, top and back edges bound with white celluloid, fancy colored stripe in back, body grained to match rosewood and beautifully finished, neck mahogany finish veneered head piece, rosewood finger-board, pearl position dots, our own make nickel-plated patent head, No. 935 tail piece, nickel-plated, strung with steel strings..... Each 20 80

No. 9965 Mahogany back and sides, spruce top, broad fancy colored wood inlaying around sound-hole, top edge inlaid with fancy colored wood and bound with white celluloid, body finished in beautiful shades of light mahogany, hand polished neck mahogany finish, finger-board with pearl position dots, our own make nickel-plated patent head No. 930 metal tail piece nickel plated, strung with steel strings . Each 20 40

No. 9980 Beautiful figured dark mahogany back and sides, hand polished, broad fancy corded colored wood inlaying around sound-hole and edge, top and back edges bound with white celluloid, broad fancy colored stripe in back, mahogany neck, rosewood veneered head piece, ebony finger-board bound with celluloid and pearl position dots, our own make nickel-plated patent head, ebony bridge, strung with gut strings Each 31 20

No. 9840 Quartered oak back and sides, hand polished, spruce top, broad fancy colored wood inlaying around sound-hole, edge inlaid with broad fancy colored wood inlaying and bound with white celluloid, neck mahogany finish, finger-board has pearl position dots, our own make nickel-plated patent head, No. 930½ metal tail piece, nickel plated, strung with steel strings . Each 18 80

No. 9846 Quartered oak back and sides, hand polished, spruce top, broad fancy colored wood inlaying around sound-hole, top and back edges inlaid with broad stripe of fancy colored wood and bound with white celluloid, broad stripe of fancy colored wood inlaying down center of back, neck mahogany finish, veneered head piece rosewood finger-board, pearl position dots, our own make nickel-plated patent head and metal tail piece, strung with steel strings . Each 21 60

CONCERT SIZE.

No. 9860 Concert Size. Beautiful Danish oak back and sides, spruce top, broad bordered fancy colored wood and celluloid inlaying around sound-hole, top and back edges bound with white celluloid fancy colored wood stripe in back, mahogany neck, rosewood veneered head piece, body and neck beautifully hand polished, ebony finger-board bound with celluloid, pearl position dots, our own make nickel-plated patent head ebony bridge, strung with gut strings. ..... Each 30 40

BANJOS

Nos. 91100-91124.

No. 9739.

No. 9831.

No. 9839

10-INCH.

No. 9607 Nickel Shell, wood lined, calfskin head, 7 nickel-plated hexagon brackets, single wired edge shell, raised frets, position dots, imitation mahogany neck ..... Each $10.20
No. 9609 Same description as No. 9607, with 9 nickel brackets ..... Each 10.60

11-INCH.

Nickel Shells, Wood-Lined, Calfskin Heads.

No. 91100 15 nickel-plated hexagon brackets, raised frets, birch neck ..... Each $11.40
No. 91110 15 nickel-plated hexagon brackets, raised frets, birch neck ..... Each 13.00
No. 91111 25 nickel-plated hexagon brackets, raised frets, birch neck ..... Each 11.20
No. 91122 25 nickel-plated hexagon brackets, raised frets, birch neck, wired edge ..... Each 15.80
No. 91124 39 nickel-plated hexagon brackets, raised frets, birch neck, wired edge ..... Each 17.80

11-INCH AMERICAN MADE BANJOS

DOUBLE WIRED EDGE.

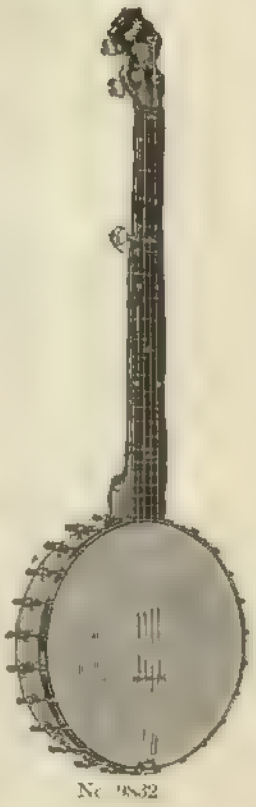
No. 9825 Nickel-Plated, Double Wired Shell, 10½ inches in diameter, 3 octave scale, 25 hexagon brackets, rabbeted top band, calfskin head, mahogany finished neck, heavy ebony finger board and head piece, pearl position dots, black pegs, nickel-plated tail piece ..... Each $21.30
No. 9831 Same description as No. 9825, with 31 brackets ..... Each 25.60

THE IMPROVED MYSTIC.

No. 9731 Wired Nickel-Plated Shell, wood-lined, 11 inches in diameter, 3 octave scale, 31 elbow brackets, calfskin head, rabbeted top band, neck mahogany finished, ebony finger board and head piece, inlaid with large figure, white celluloid pegs, nickel-plated tail piece ..... Each $27.80
No. 9779 Same description, with 39 brackets ..... Each 27.80

These Banjos are made with extra care, are handsomely ornamented, carefully selected and are intended to supply the want of a well-made professional instrument at a medium price.

No. 9826 Nickel-Plated, Double Wired Shell, wood-lined, 11 inches in diameter, 3 octave scale, 25 elbow brackets, heavy rabbeted top band, calfskin head, imitation ebony neck, heavy ebony finger board and head piece, inlaid with elaborate pearl figures, patent pegs, nickel-plated tail piece ..... Each 36.00
No. 9839 Same description as No. 9826, with 39 brackets ..... Each 42.20



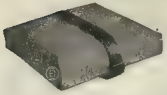
No. 9832

PROFESSIONAL.

No. 9832 Nickel-Plated Double Wired Shell, wood-lined, 3 octave scale, 11 inches in diameter, 31 elbow brackets, heavy rabbeted top band, extra fine calfskin head, dark mahogany finished neck, heavy ebony finger-board and head, beautifully inlaid with Japan pearl figures, fancy white pegs, best quality fretwire, special bridge, nickel-plated tail piece ..... Each $43.60
No. 9833 Nickel-Plated Double Wired Shell, wood-lined, 3 octave scale, 11 inches in diameter, 31 elbow brackets, Rogers calfskin head, heavy rabbeted top band, carved mahogany neck, heavy ebony finger-board, head piece and heel piece beautifully inlaid with Japan pearl, engraved, pearl pegs, special bridge, best quality of strings, new style nickel-plated tail piece ..... Each 58.20

REACH.

BASES.



Three in a set, complete with spikes and straps.

Made of heavy canvas. Complete with straps and pegs. Stuffed ready for use.

Per Set

No. E3—Reach Professional; extra heavy canvas; well stuffed; extra strong straps. $14.00

No. E4—Reach Special; canvas; not stuffed; to be filled with sand or hay. 5.72

HOME PLATES.

New style, made according to league regulations, complete with pins.

Each

No. HR—Rubber composition home plates.....$16.50

BOX PLATES.

Pitcher's Box Plate, made according to league regulations; complete with pins.

Each

No. R—Rubber, white composition.....$11.56

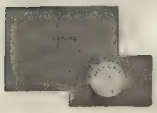
UMPIRE INDICATORS.

Celluloid Indicators.

Per Dozen.

For keeping tally of the number of strikes and balls that may be called. Highly recommended by all Umpires.....$13.20

SCORE BOOKS.



Each

No. 1—Pocket; paper cover; 7 games..... .....$0.14

No. 2—Pocket; cloth cover; 22 games..... .5d

No. 4—Club, cloth cover, 30 games... .. . . . 1.80

BASE BALL GUIDES.

Each.

Reach Official. Contains everything anyone wants to know about base ball, with complete records of American, National and Minor Leagues. (Ready April 1st.)....$0.34

WRIST SUPPORTS.

REACH.

Per Dozen

No. 1—Fine grain leather..... $3.50

ANKLE SUPPORTERS.

To be worn over stocking.

Per Dozen Pairs

No. L—Finest Russia Calf.....

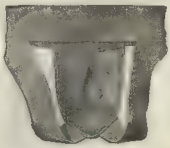
For prices see page 4936.

SUPPORTERS.

Per Dozen

No. 1 Morton Supporter, canton flannel, laced front $4.80

THE "GYM" JOCKEY STRAP.



Inside Pouch.

Outside Pouch.

The GYM is the only duplex or two pouch support on the market.

The pouches of the Gym are not elastic. Is made of a light weight lisle, and is very soft. An elastic pouch will gall and chafe, thereby causing the athlete great discomfort.

The Waist Bands are 2-inch and the leg straps 2½-inch Boarder Web, put up in handy and attractive display boxes.

Per Dozen.

No. 1GM—Medium, for waist 30 to 36.....$13.50

No. 1GL—Large, for waist 34 to 40, otherwise same as above 13.50

ANKLE SUPPORTERS.

These supporters are made to be worn over stocking. They relieve pain immediately, cure a sprain in a remarkably short time, strengthen and prevent turning of the ankle. They are invaluable in football, baseball and all athletic contests. Made in all sizes.

Per Dozen Pairs.

No. L—Ankle supporter; made of the finest Russian Calf. Weight, per doz. pairs, 2 lbs. **$30.00**

ATHLETIC SHOES.

For bowling, gymnasium, running, etc. Made on a very comfortable and well fitted last. Have a heavier bottom than any soft sole shoe on the market and have a spring heel, entirely new in the soft sole shoe Made of very best chrome side leather in olive color. Soles of Elk leather. Comfortable and durable.

Per Pair

No. 515—Made in all sizes. Weight, per pair, 1 lb. **$3.50**

BASKET BALL SHOES.

The standard shoe for expert basket ball players. Pure gum suction soles. Rubber used in the soles is extra thick, special quality that clings to the floor and prevents slipping. Brown leather trimmings with rubber toe cap to match. Extra heavy duck uppers, without lacing hooks. Heavy reinforced foxing.

Per Pair

Men's Basket Ball Shoes—sizes, 5 to 12; weight per pair packed, 2¼ lbs. **$7.00**

Boys' Basket Ball Shoes—sizes, 2½ to 6; weight per pair packed, 1¾ lbs **6.50**

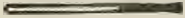
FOOT BALL SHOES.

Per Pair.

No. 1646—Good grain leather. Goodyear welt, cleats on sole and heel, sizes 6 to 10 by ½ sizes **$10.50**

Wt, per pair, 2½ lbs.

INDOOR BATS.



REACH. Per Dozen.

No. 0—Regulation. Selected hickory, taped handle to prevent hand from slipping. Weight, per doz, 15 lbs. **$16.00**

In bulk.

INDOOR BASE BALLS.

REACH OFFICIAL.

Made of finest quality curled hair. Best horsehide cover.

No.	112	114	116	117
Size, ins.	12	14	16	17
Wt. doz., lbs.	½	½	¾	¾
Per Doz.	$33.60	41.80	46.20	48.00

MATCH.

Same as "Official," but has best sheepskin cover.

Nos.	214	216
Size, inches	14	16
Wt. doz., lbs	½	¾
Per dozen	$22.80	24.00

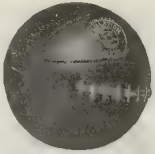
One-twelfth dozen in a box.

BASKET BALLS.

REACH OFFICIAL.

Made in eight sections from the best selection of special imported leather, tanned expressly for the purpose and every care is taken to make it a perfect ball. Must be used in all match games. Each

No. 0—Complete with a special bladder, lacing needle and leather lace Weight, each 2 lbs **$24.20**



REGULATION.

Made of fine American Pebble Grain leather, in eight sections. Guaranteed perfect shape. Put up complete with Bladder, Lacing Needle and Leather Lace Each

No. 1½—Wgt. each, 1¾ lbs. **$17.00**

SPECIAL.

Made of selected Pebble Grain Sheepskin leather, in eight sections. Put up complete with Bladder and Lace.

Each

No. 2—Reach "Special" weight each 1¾ lbs. ... **$9.30**

Above one in a box

BASKET BALL GOALS.

Per Pair.

No. 6—Reach 6-inch extension goals, weight per pair, 18 lbs **$11.50**

Extra Nets for above, Weight per pair 4 ozs. **$1.30**

In bulk.

BASKET BALL GUIDES.

Contains photographs of all the leading clubs throughout the United States with complete records, new rules, also full instructions how to score. Edited by Wm. J. Scheffer.

Each

Reach Basket Ball Guide—Weight, each: ½ lb. In bulk **$0.34**

The Sun and Holophane Alike
In Some Respects

JUST as the sun distributes its rays evenly over the earth, so the Holophane system of illumination diffuses the light evenly over the street, covering a wide area.

The Holophane Street Lighting Refractor, by a scientific arrangement of prisms, utilizes every ray from the source and floods the streets with a strong, full, non-glaring illumination.

You will not get the best results from your lighting system unless you utilize the Holophane unit. It makes a good lighting system *better*, regardless of style, type, make or design.

It can be used with any type of standard, either gas or electric.

Ideal for city and suburban streets, parks and play-grounds.

Holophane cuts the cost of operation, and effects a saving which should not be considered lightly, in view of the present coal crisis.

If you want to prevent the waste of light on your streets, you ought to have our free literature. Why not send your address today?

HOLOPHANE GLASS CO., INC.

340 Madison Avenue Dept. A-22 New York City

Hamilton 16-Inch Screw-Cutting Engine Lathe

Style "A"

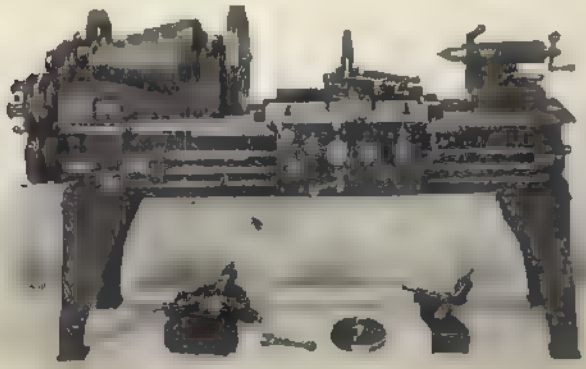


Fig 1550

This lathe is illustrated above. It has back gears, hollow steel spindle, bronze spindle boxes, power cross feed, universal screw cutting and feeding arrangement, positive geared feed, automatic stop for both screw cutting and feeding, reverse movement controlled from apron, chasing dial, gear guards, etc. For complete description, see special circular.

Hamilton 16-Inch Screw-Cutting Engine Lathe

Style "B"

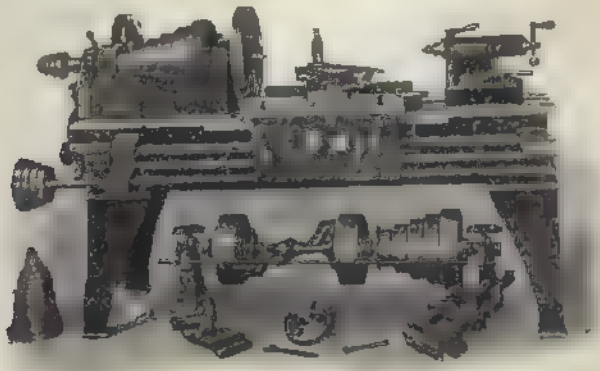


Fig 1551

This lathe is illustrated above. It has back gears, hollow steel spindle, bronze spindle boxes, power cross feed, independent screw and roll feed, automatic stop for feed, chasing dial, gear guards, improved feed belt tightener, etc. For complete description, see circular

Westcott's New Little Giant Double Grip Drill Chuck

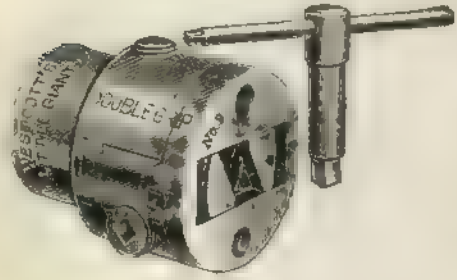


Fig. 1550

No.	Approximate Diameter Inches	Holding Drills Inches	Price Each	Unfinished Face Plate Each
0	2½	0 to ¼	$ 9 00	
1	3	0 to ⅜	10 00	
2	3½	0 to 1	11 00	
3	4	0 to 1 ex strong	12 00	
3	6	0 to 1½	20 00	$1 25
4	6½	0 to 2	25 00	1 25

Pratt's Improved Positive Driving Drill Chuck

List Nos.	Diameter Inches	Holding Drills Inches	Price Each
1	2¼	0 to ¼	$ 8 00
2	3	0 to ⅜	9 00
3	3⅝	0 to 1	11 00
4	5¼	0 to 1½	20 00
5	6¾	0 to 2	25 00

Discount

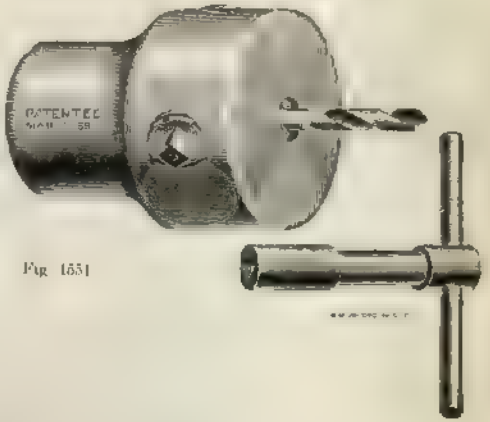


Fig. 1551

Hartford Drill Chuck

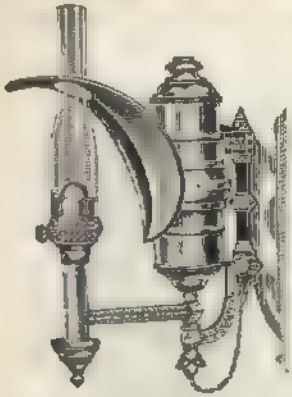
Fig. 1552

No.	Diameter Inches	Length Inches	Weight Pounds	Capacity Inches	Price Each
0	1⅝	2¼	1¼	0 to ¼	$ 6 00
1	2⅛	2⅝	2¼	0 to ½	7 00
2	2⅞	3⅛	4¼	0 to ⅝	8 00
3	3⅝	4⅛	8	0 to 1	10 00

Handlan Car Lamps

Brass Lamps, Any Finish

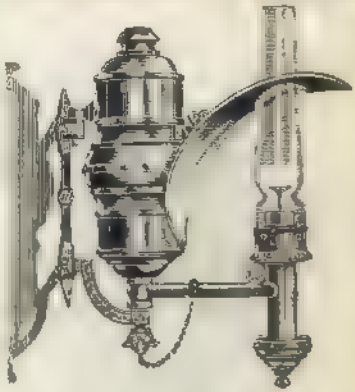
No. 134 Postal Car Side Lamp



No. 134

From wall over all, 14 inches; height over all, 18 inches; Argand burner, central draft.

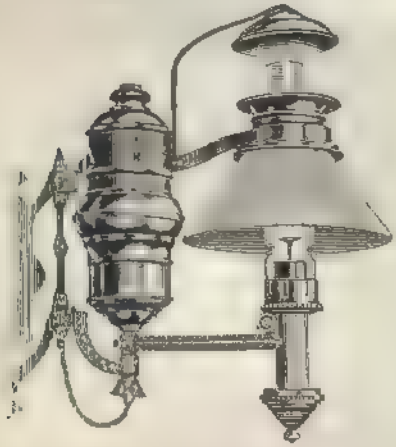
No. 135 Acme Mail Car Side Lamp



No. 135

From wall over all, 14 inches; height over all, 18½ inches; Acme burner, center draft.

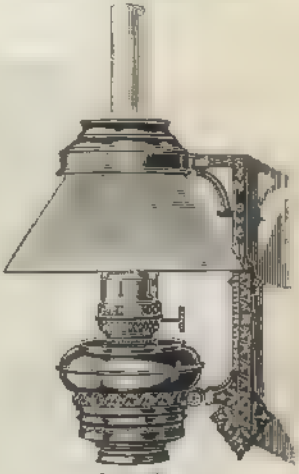
No. 136 Acme Mail Car Side Lamp



No. 136

From wall over all, 17¼ inches; height over all, 23½ inches; Acme burner, central draft.

No. 137 Side Lamp

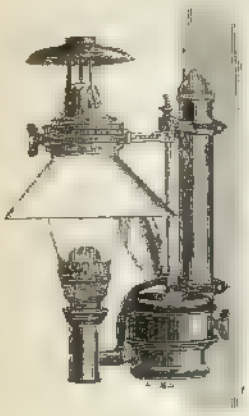


No. 137

From wall over all, 10 inches; height over all, 18 inches; Mooring burner, central draft.

Above lamps any finish

Handlan Car Lamps



No. 107

No. 107 Postal Car Side Lamp

A new revolving postal car lamp, with silver plated reflector and porcelain shade. Throws a brilliant light on any point desired. No. 3 dual burner.

Bronze or gilt	each
Nickel and gilt	each
Silver finish	each

From wall over all, 13½ inches; height, over all 18½ inches.

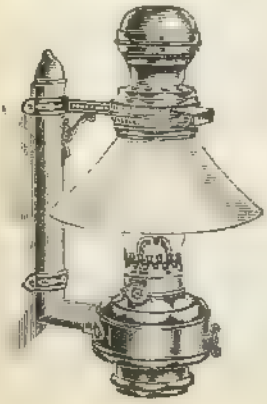
No. 57

No. 57 Patent Side Lamp

A popular pattern and largely used on roads throughout the west and south. A brilliant illuminator. No. 3 dual burner.

Bronze or gilt	each
Nickel and gilt	each

From wall, over all 10½ inches, height over all, 19 inches.



No. 38

No. 138 Side Lamp

From wall, over all 11¼ inches; height over all, 17½ inches. No. 3 dual burner with skirt.

Handlan Electric Signal Lamps

With 80-Degree Radius Lenses

No. 94

No. 94 Semaphore Lamp

Equipped with one white radius lens. Lamp details same as R. S. A. specification

Complete with electric socket

No. 96 Train Order Lamp

Equipped with two white radius lenses. See cut of semaphore lamp for front view. Lamp details same as R. S. A. specification

Complete with electric socket

No. 93 Side View

Handlan Electric Signal Lamps

With Optical Lenses

No. 96

No. 96 Semaphore Lamp

Diameter of lens 5 or 5⅜ inches; lamp body No 18 cold rolled steel; equipped with lamp socket on adjustable base

No. 97 Train Order Lamp

Diameter of lens 5 or 5⅜ inches; lamp body No 18 cold rolled steel equipped with lamp socket on adjustable base

No. 97

Handlan Electric Lanterns

No. 113

No. 113 Electric Lantern

Burns eight hours, No. 39 or No. 223 globe; same lantern as standard No. 176, except with dry cell, oil pot or dry cell interchangeable.

No. 123

No. 123 Lake and River Lantern

Inside wick raiser; oil pot from bottom, No. 1 or No. 1 Ex. Beacon or Convex burner.

Handlan Conductors' Lanterns

No. 190
Imperial Pattern

No 191
Boss Pattern

Furnished in plain brass, nickel plated, silver plated or silver, sterling silver or gold

Half green half blue, half red globes

No. 1 L. O. R. or Beacon burner

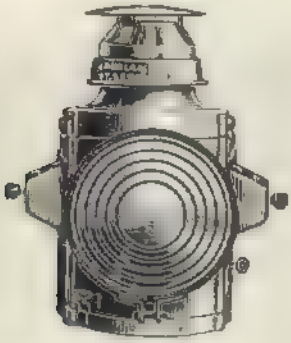
See pages 152 to 155 for extra globes

No 193
Empress Pattern

No 193
St. Louis Pet

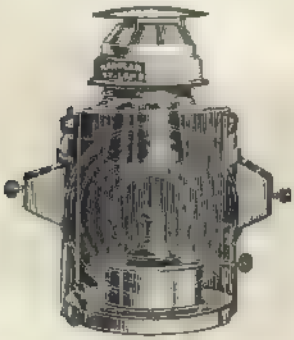
Handlan Motor Truck Lamps

No. 11 Side Lamp, Double Bracket



Front view, 5-inch white lense wick adjustable from outside

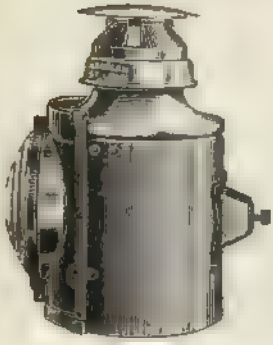
No. 11 Side Lamp, Double Bracket



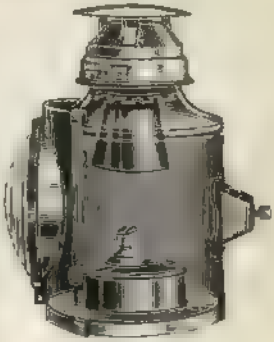
Interior view, 5-inch white lense, wick adjustable from outside

Handlan Motor Truck Lamps

No. 10 Side Lamp, Single Socket



No. 10
Side View



No. 10
Interior Side View

5-inch white lens; wick regulated from outside

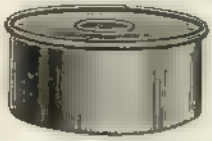
No. 20

Founts for Tail Lamp

No. 20 Oil Pot

Seamless; no leakage

Founts for Side Lamp

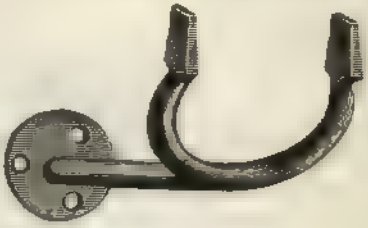


No. 21

No. 21 Oil Pot

Seamless; no leakage

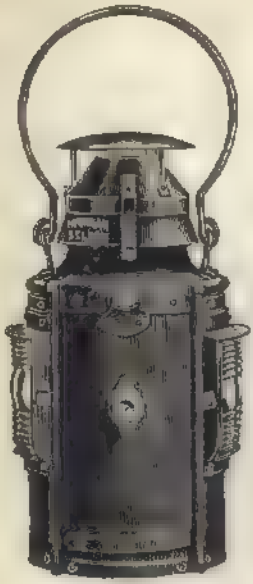
No. 22 Wrought Bracket



No. 22

Special cast brackets made to specifications

See page 167 for Burners



No. 21
Side View

Handlan Radius Train Order Signal Lamps

Covers a Radius of 80 Degrees

For Station Signals Located on Curves

Equipped with two white radius lenses, 31-ounce oil fount; one-day or long-time burner; see cut below for front view; lamp details with exception of lenses are same as R S A. specification.

Radius Semaphore Lamps

Covers a Radius of 80 Degrees

Equipped with one white radius lens; 31-ounce fount; one-day or long-time burner; lamp details with exception of lens are same as R S. A. specification

No. 22

Railway Signal Association Semaphore Lamps

Specifications

1. Body of lamp shall be made of No. 18 sheet steel tinned.

2. Body of lamp shall be 6½ inches in diameter.

3. Rivets shall be used in construction of the body of the lamp for holding parts together.

4. Distance from center of lamp to outside of lens, or lens shield, shall not be more than 4⅝ inches.

5. Distance [illegible] of lens to base [illegible] shall be 4⅛ inches.

6. Distance from center of lens to bottom support of font shall be 4⅝ inches.

7. Distance from center of lamp to center of lamp socket shall be 3⅛ inches.

8. Ears or bail hooks, where used, shall be made of malleable iron, riveted to body of lamp.

9. Handle of lamp shall be No. 4 B W G.

10. Door shall have waterfold so arranged as to prevent rain entering the lamp, and door shall raise high enough to make the opening 6⅝ inches.

11. Lamp shall be so constructed that the wick adjustment shaft extends through body of lamp.

12. Lamp shall [illegible] draught ventilators, [illegible] will be tested [illegible] factory as follows: (a) Wind velocity equivalent to 80 M. P. H. for two minutes. (b) Still air temperature 110 degrees Fahr. for two hours. If above tests extinguishes flame, lamp will be rejected.

13. Lens shall be 5 inches in diameter with 3½-inch focus.

14. Lens holder [illegible] be arranged so that lens can be easily removed and shall completely encircle the lens.

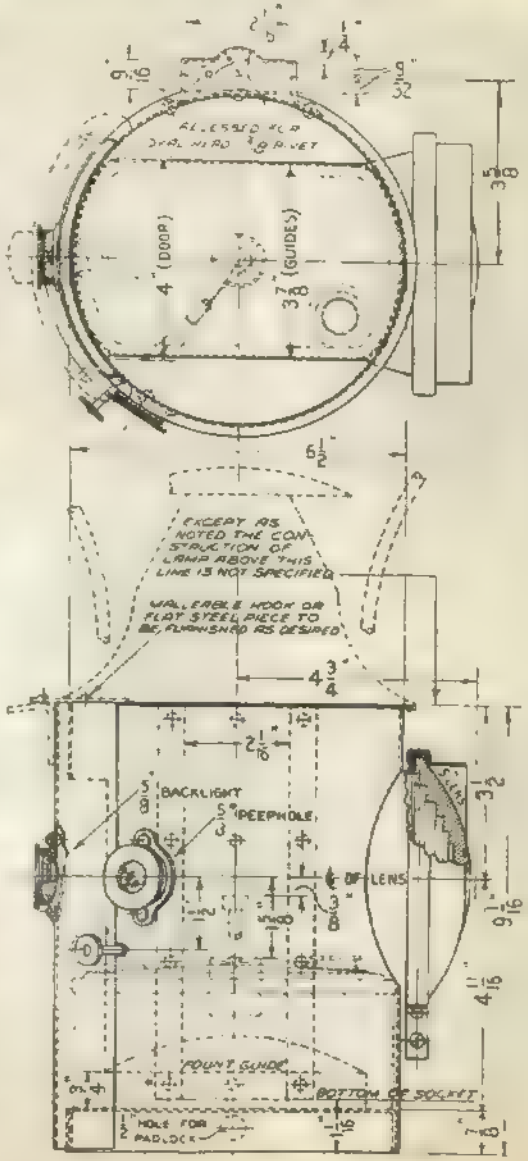
15. Lamp shall be provided with 1⅛ inch back light with 1-inch screw cap.

16. Socket of lamp shall be arranged [illegible] lamp bracket [illegible] socket to [illegible] of standard [illegible] screws [illegible] recessed for oval head [illegible]

17. Back light and peep hole glasses shall be held in place by screw retaining rings.

18. Insect screen shall be provided when specified.

Semaphore Lamp, R. S. A.
No. 1100B



No. 1[illegible]
Railway Queen

Handlan Conductors' Lanterns

Furnished in plain brass, nickel plated, silver plated or silver; half blue, half green or half red globes; No. 1 or Beacon burners

See pages 152 to 155 for globes

No. 195
Daisy Pattern

Engraving

We engrave globes in any style desired, from the simplest plain initials to elaborate wreaths and fanciful designs

Style of Lettering

In Use

C. B. DANA

Script

E. Hodnett

Old English

Will B. Williamson

S. H. Jones

	Price
Name or initials, roman letters	$0 50
Name or initials, script letters	1 00
Name or initials, Old English letters	1 00
Plain wreath	.50
Fancy wreath	1 00

Names for engraving must be written very plainly

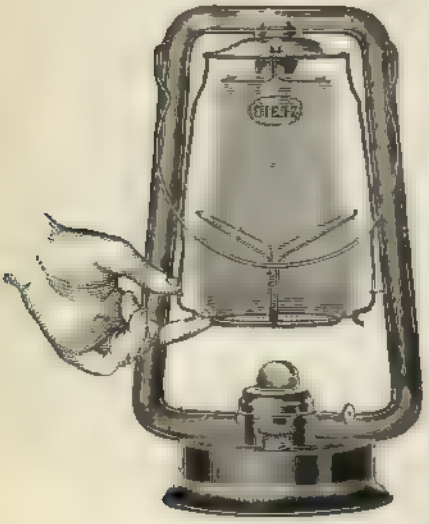
No. 196

List Price Lantern Frames

		Per Dozen
No. 110	Lantern frames only	
No. 111	Lantern frames complete with white globe	
No. 112	Sockets for same	
No. 112	Lantern frames, complete with white globe	
No. 112	Bracket for same	each
No. 115	Electric lantern, complete with white globe	
No. 119	Inspector's lantern with white globe	
No. 116	Lantern frames only	
No. 116	Lantern frames only	
No. 118	Lantern, complete	
No. 120	Lantern frame only	

		Per Dozen
No. 121.	Lantern frame only	
No. 123	Lantern frame only	
No. 174	Lantern frame only	
No. 175	Lantern frame only	
No. 176	Lantern frame only	
No. 177.	Lantern frame only	
No. 178.	Lantern frame only	
No. 179.	Lantern frame only	
No. 180.	Lantern frame only	
No. 181.	Lantern frame only	
No. 182.	Lantern frame only	

Tubular Lanterns



No 40
With Simple Lift

No. 400

No. 0 Tubular. Bright tin, white globe

No. 0 Tubular. Bright tin, red globe.

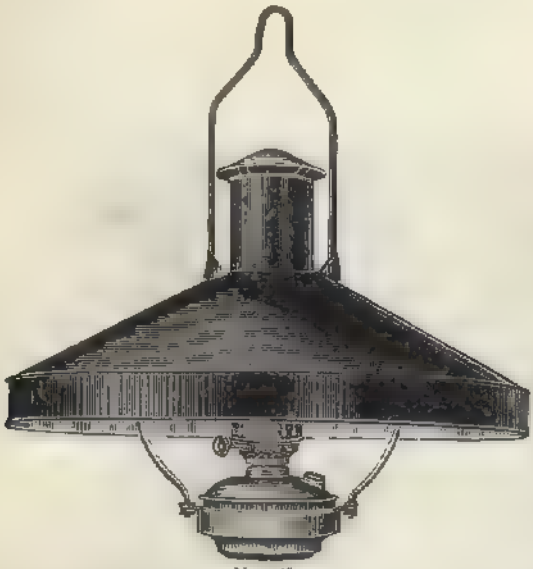
No. 401 Wizard Lantern

Bright tin, No 2 tubular burner.

Bright tin with polished brass fount and top, No 2 tubular burner.

No 401

Handlan Railroad Lamps



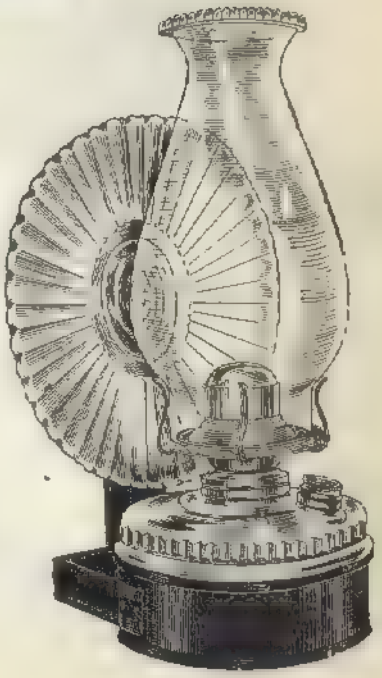
No. 25

No. 125 Tower Center Lamp

With No. 3 burner; large fount; adjustable smoke jack

Station and Outhouse Side Lamp
No. 216

The frame is made of sheet steel welded; black enameled; heavy bright tin reflector; No. 2 Sun burner and chimney; metal fount, with filler



No. 216

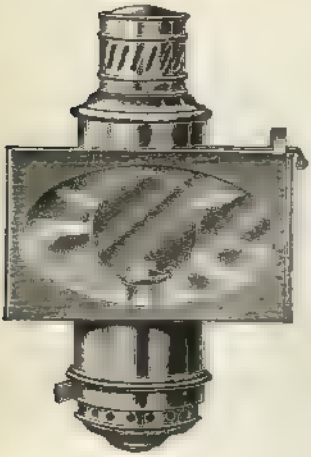
No. 218

Police Lanterns
No. 218

5-inch brass	per dozen	$35 00
5-inch nickel	per dozen	40 00
2 ½-inch lens, tin, japanned,	per dozen	12.00
3-inch lens; tin japanned,	per dozen	15 00

Handlan Steam Gauge Lamps

No. 250



No. 250

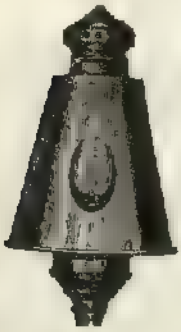
Heavy tin	per dozen	$30 00
Heavy tin, japanned	per dozen	33 00
Brass, polished	per dozen	60 00

No. 251

No. 251

Grey Iron Base		
Heavy tin	per dozen	$24 00
Heavy tin, japanned	per dozen	27 00

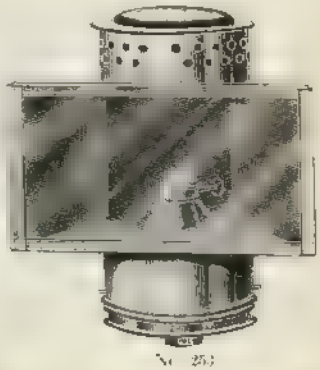
No. 252



No. 252

Heavy tin	per dozen	$30 00
Brass, Liberty silver finish	per dozen	60 00
Brass, brass finish	per dozen	48 00

No. 253



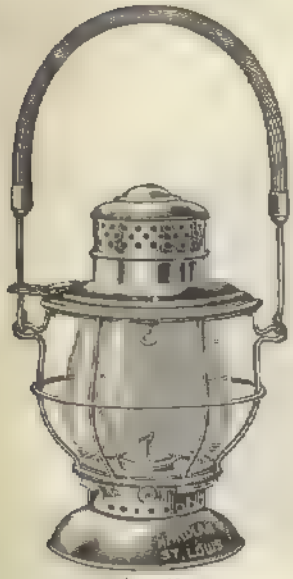
No. 253

Heavy tin	per dozen	$21 00
Heavy tin, japanned	per dozen	27 00
Brass, polished	per dozen	54 00

If you have standard lamps, send us your blue prints for special prices

Handlan Railroad Lanterns

Electrically Welded



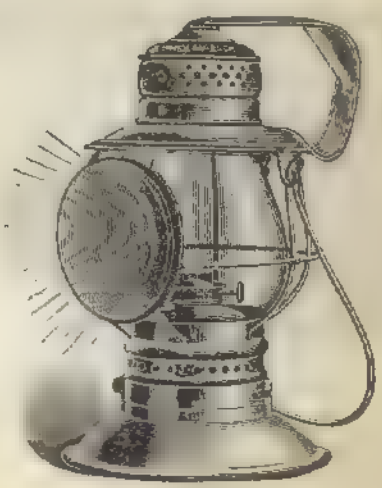
No. 115

No. 115 Switchman's Lantern

Inside wick raiser, No. 1 or No 1 Ex. Beacon or Convex burner; No. 39 or No. 223 globe

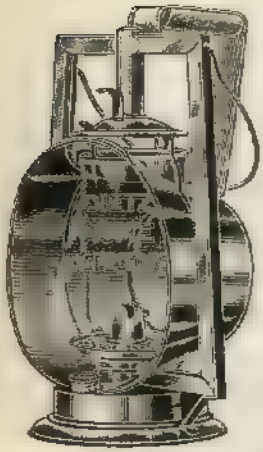
No. 116 Inspector's Lantern

Inside wick raiser; No 1 Ex. burner; 4-inch white bull's eye, No. 39 or No 223 globe.



No. 116

Handlan Railroad Lanterns



No. 114

No. 114 Inspectors' Lantern

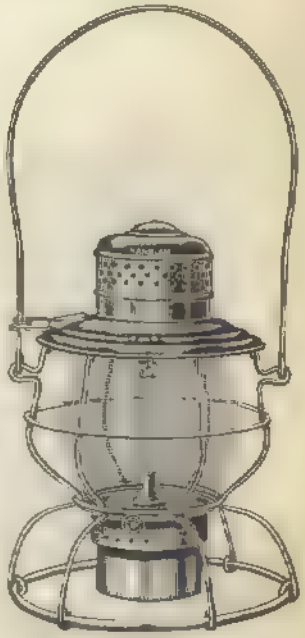
Outside wick raiser; No 1 Cone burner; No. 0 tubular globe.

No. 120 Warehouse and Mill Safety Lantern

Outside wick raiser and wick trimmer; No. 1 Ex. burner, padlocks extra

No. 120

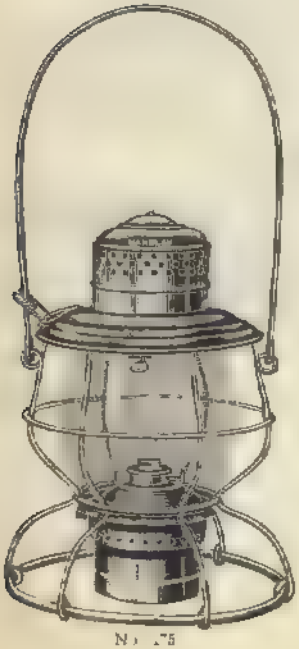
Handlan Railroad Lanterns



Electrically Welded

No. 174

Wire guard wire bottom lantern; outside wick raiser; No. 1 or No. 1 Ex. Beacon or Convex burner; No. 39 or No. 223 globe



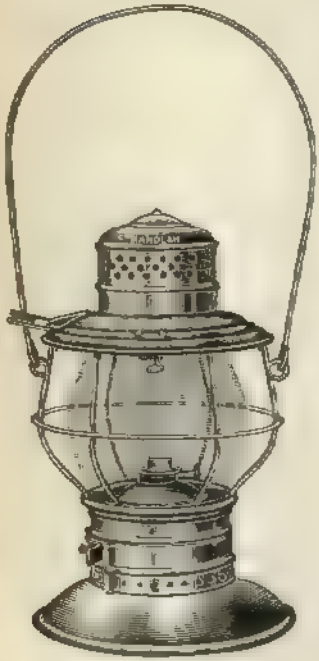
No. 175

No. 175

Wire guard wire bottom lantern; inside wick raiser; No. 1 or No. 1 Ex. Convex or Beacon burner; No. 39 or No 223 globe.

Handlan Railroad Lanterns

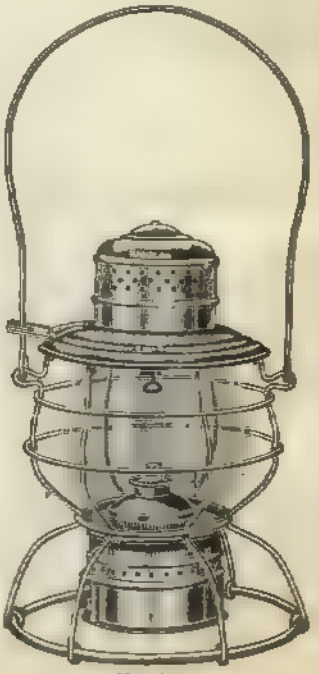
Electrically Welded



No. 178

No. 178

Wire guard tin bottom lantern, inside wick raiser, No. 1 or No. 1 Ex. Beacon or Convex burner; No. 39 or No. 223 globe.



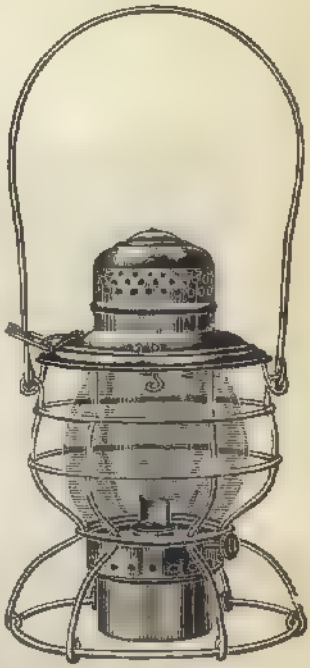
No. 179

No. 179

Wire guard wire bottom lantern; inside wick raiser; No. 1 or No. 1 Ex. Beacon or Convex burner; No. 39 or No. 223 globe

Bails held rigid by improved adjustable bail holder

Handlan Railroad Lanterns



No. 180

Wire guard wire bottom lantern; outside wick raiser; No. 1 or No. 1 Ex. Beacon or Convex burner; No. 39 or No. 223 globe.

Constructed Entirely Without the Use of Solder

A standard lantern, built to meet the most exacting conditions -the result of forty years progressive manufacturing experience.

Handlan ventilation, Handlan bail stiffener Handlan construction, Handlan efficiency

Care of Signal Lanterns

General Rules

1 Lanterns are equipped for burning good signal oil.

2 The lanterns should be thoroughly cleaned inside and out.

3 The wicks, when charred, should be broken off with the fingers or with a stick Do not trim them with a shear unless the wick has frayed

4 Fill the fount ¼ inch from the top. This allows for expansion and will prevent the flooding of the oil pot receiver.

5. The oil pot should be cleansed thoroughly and all sediment removed daily otherwise if sediment is left in the cup it will deteriorate the new oil when refilled. The wick acts as a strainer and in time accumulates considerable quantity of foreign matter and the oil becomes gummy and this will prevent the smooth flow of oil which is necessary for a clear steady and uniform flame As soon as the wick becomes dirty throw it away and replace it with a new one

There are no adjustable parts in the lantern to become misplaced and if the above rules are followed there will be absolutely no reason to remove the wind break as this is the repair part that is properly fitted to the lantern in the factory.

Handlan Railroad Lanterns

No. 177

No. 177

Electrically Welded

Wire guard tin bottom lantern; outside wick raiser; No. 1 or No 1 Ex. Beacon or Convex burner; No. 39 or No. 223 globe.

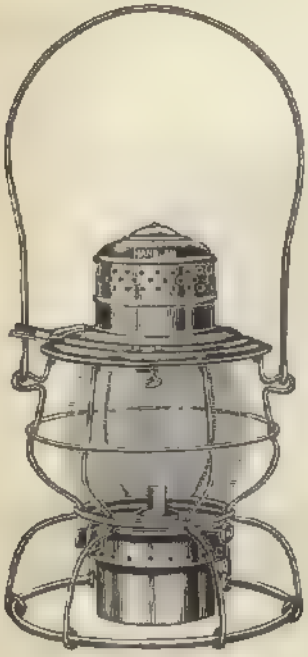
Constructed Entirely Without the Use of Solder

A standard lantern built to meet the most exacting conditions—the result of forty years progressive manufacturing experience

Handlan ventilation, Handlan bail stiffener, Handlan construction, Handlan efficiency.

Handlan Railroad Lanterns

Electrically Welded



No 181

No. 181

Wire guard wire bottom lantern; outside wick raiser; No. 1 or No. 1 Ex. Beacon or Convex burner; No 39 or No 223 globe.

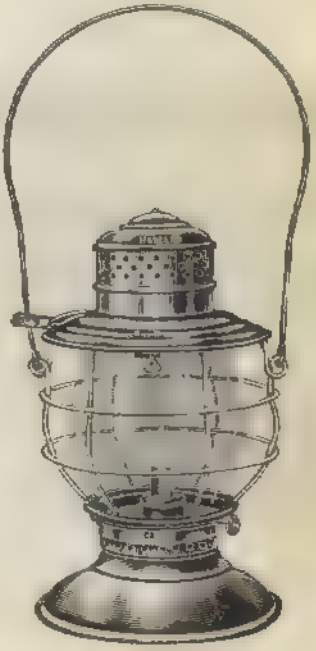
Remove oil pot from bottom; it is not necessary to open top and lift globe.

No. 182

Wire guard tin bottom lantern; outside wick raiser; No. 1 or No 1 Ex. Beacon or Convex burner; No. 39 or No 223 globe.

Remove oil pot from bottom; it is not necessary to open top and lift globe

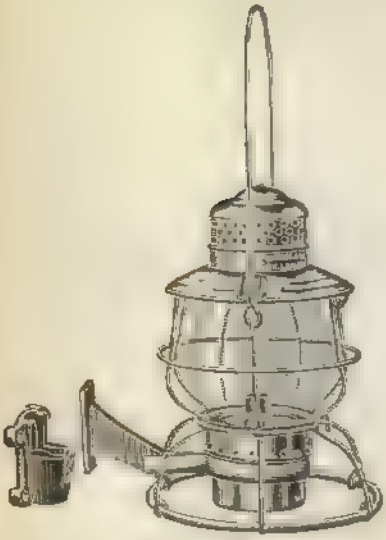
Bails held rigid by improved adjustable bail holder



No 182

Handlan Railroad Lanterns

Electrically Welded



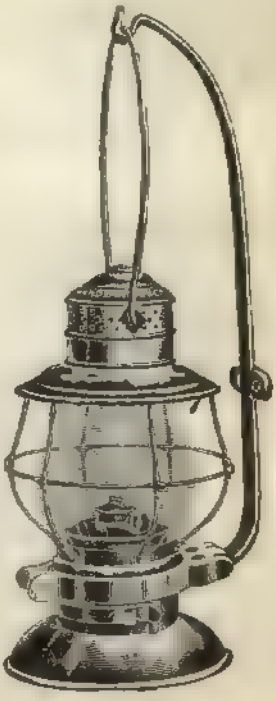
No. 111

No. 111

Outside wick raiser; No. 1 Convex burner; No. 39 or No. 223 globe; sockets extra.

No. 112

All brass lantern with brass bracket; inside wick raiser, No. 1 or No. 1 Ex. Beacon or Convex burner; No. 39 or No. 223 plain white or one-half colored globe; brackets extra.



No. 112

Handlan Office Stand Lamps

No. 200

No. 200

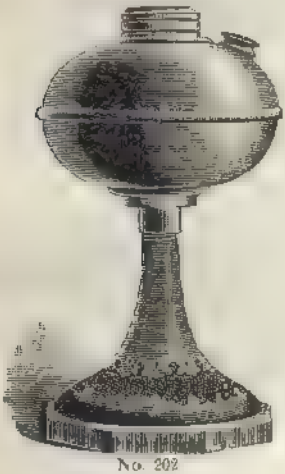
Steel, nickel plated, drawn fount; no breakage, no leakage, weighted base

No. 201

Cast iron, black japanned, seamless drawn metal fount; no breakage, no leakage, a very heavy indestructible lamp

No. 201

No. 202



No. 202

Spun brass bowl, polished cast iron base japanned; drawn bowl, no leakage, no breakage

No. 203

Glass base and bowl, with filler screw

No. 203

Handlan Office Stand Lamps

No. 204

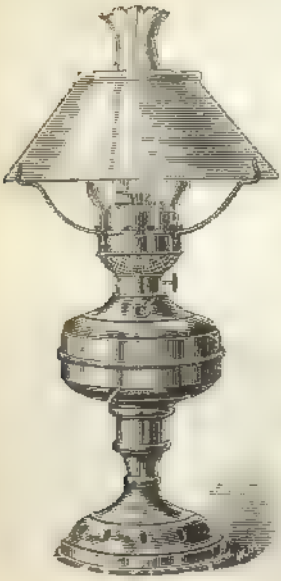
No. 204

Extra large metal fount, brass plated or aluminum bronzed, seamless drawn fount, no breakage, no leakage solid iron base, japanned

No. 205

Solid drawn metal fount, bronzed, with filler screw; no leakage, no breakage; solid iron base, japanned

No. 205



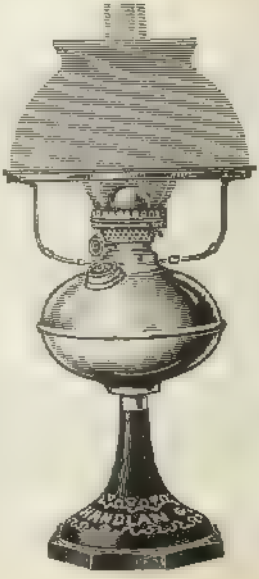
No. 206

No. 206

An all-brass lamp, highly polished; large capacity fount; weighted base; burns circular wick; very powerful light

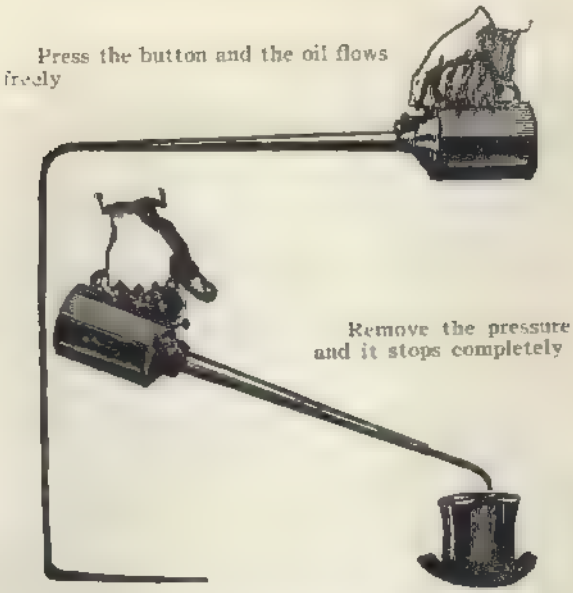
No. 222

Cast iron base; spun brass fount 7-inch porcelain shade and shade holder. Can furnish this shade holder and shade with any pattern of stand lamp



No. 222

Handlan Perfection Valve Oiler



Perfection Valve Oilers

Handlan Perfection Valve Oiler

The Waste of Oil

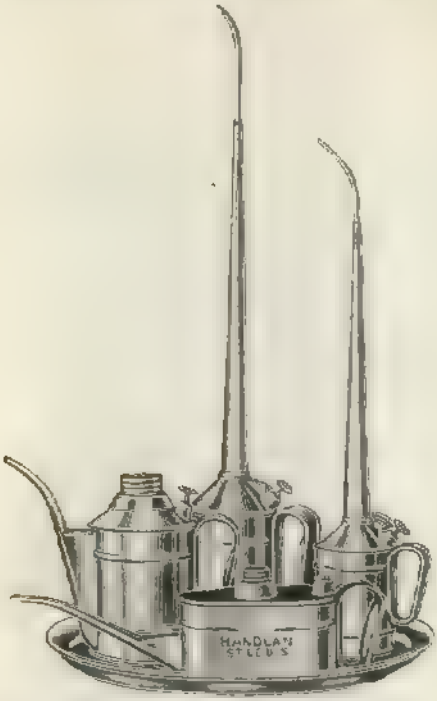
seems necessary with the ordinary oiler, it being impossible to reach many parts without pointing the spout downward and so dribbling all over the machinery and floor, but there is a way of avoiding this waste and annoyance, which is simplicity itself.

Perfection Valve Oilers

The world's favorite on land and sea. Used by the United States warships, trans-Atlantic and Pacific steamship companies, automobiles, boats and private yachts, largest manufacturing plants, city water departments, pumping stations and railroads. Particularly adapted for automobiles. The oil cannot flow until you press the button. No dirty tool boxes. No greasy tools.

We manufacture special pattern for automobile tool boxes and special purposes.

Handlan Perfection Oiler Sets



With Valves

No	Finish	Number of Pieces and Oilers	Number and Oilers in a Set	Price Per Set
50	Brass	4	1 No. 38; 1 No. 29; 1 No. 41	$ 6 00
502	Brass	5	1 No. 36; 1 No. 39; 1 No. 41; 1 No. 27	7 [illegible]
503	Brass	6	1 No. 34; 1 No. 36; 1 No. 38, 1 No. 27, 1 No. 41	[illegible]
50[illegible]	Nickel	4	1 No. [illegible] No. 29; 1 No. 41	8 [illegible]
505	Nickel	5	1 No. 36; 1 No. 38; 1 No. 41, 1 No. 27, [illegible]	[illegible]
506	Nickel	6	1 No. 34; 1 No. 36; 1 No. 38, 1 No. 27; 1 No. 41	[illegible]

Without Valves

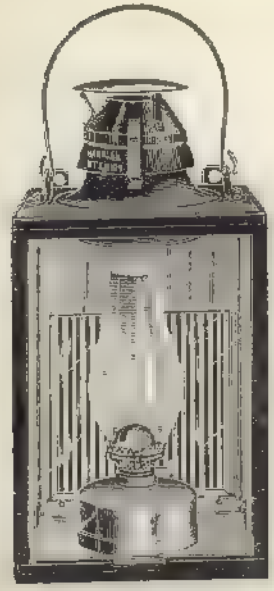
507	Brass	4	1 No. 38; 1 No. 29; 1 No. 41	$ 4 00
508	Brass	5	1 No. [illegible] No. [illegible] 1 No. 4[illegible] 1 No. 27	5 [illegible]
509	Brass	6	1 No. 34; 1 No. 36; 1 No. 38, 1 No. 27, 1 No. 41	6 [illegible]
510	Nickel	4	1 No. [illegible] No. 29; 1 No. 41	6 [illegible]
511	Nickel	5	1 No. [illegible] No. [illegible] 1 No. 41, 1 No. 27	7 [illegible]
512	Nickel	6	1 No. [illegible] No. [illegible] 1 No. [illegible] 1 No. 41	[illegible]

[illegible] handsomely finished and strictly first-class in every particular.

Oiler Trays

No	Finish	Diam Inches	Per Dozen	No	Finish	Diam Inches	Per Dozen	No	Finish	Diam Inches	Per Dozen
12	Brass	12	$2 00	15	Brass	[illegible]	[illegible]	18	Nickel	14	$ [illegible]
14	Brass	14	[illegible] 00	17	Nickel	[illegible]	[illegible]	19	Nickel	16	[illegible]

Handlan Square Station Platform Lamps



No. 208

No. 208

Made of No. 24 sheet steel, tinned, with standard signal lamp ventilation, very much more durable and efficient than the regular 12 x 14 reflector lamps with silvered glass reflectors

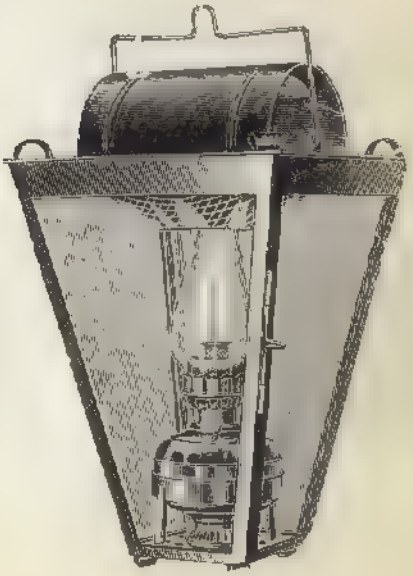
This lamp is made of heavy sheet steel throughout, has seamless drawn steel fount, no leakage, the ventilation is the same as on signal lamps, and will remain lighted; equipped with fluted glass mirror-reflector and a No. 2 standard chimney burner. No 76 chimney burner gives about twenty-five candle power

Size 10 inches square, 20 inches high; with bail and wall brackets

No. 198 New Mill Lamp

Brilliant light, improved ventilation. Specially designed for lighting mills, factories, compresses ware houses, etc. The peculiarly constructed deflector diffuses the light downward and in every direction around, while the electric fount used is the same powerful light we have manufactured for years

This lamp will give satisfaction where no other will serve the purpose



No. 198

Handlan Square Station Platform Lamp

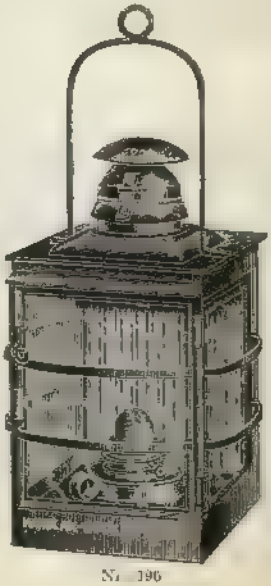
No. 197

No. 197 Square Station Platform Lamp

Made of tin and lacquered; size 12 x 14 inches. No. 2 burner. 6-inch glass reflector.

No. 196 Square Station Lamp

Made of cold rolled steel; rigid or swinging bail; no chimney; No. 2 Zenith brass burner; corrugated glass reflector, extra heavy guards; no tubes to fill up with insects, etc.; makes a most serviceable station lamp.



No. 196

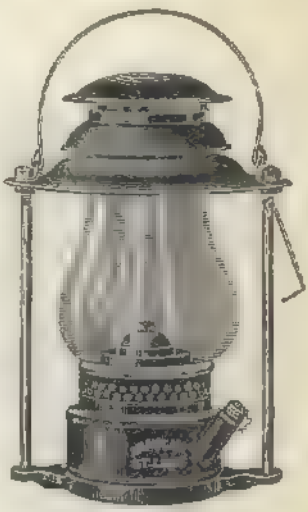
Railroad Station Lamps

No. 220 Hanging Lamp

No. 220

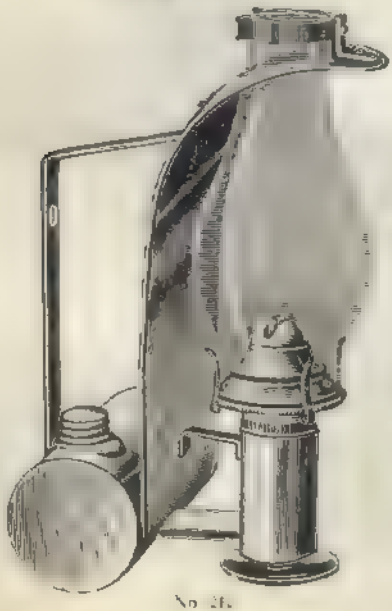
Same as No. 207 with base cut off

No. 221 Hanging Lamp



No. 221

Same as No. 208 with base cut off



No. 212

No. 212 Car Lamp

A very inexpensive lamp. A large capacity [illegible] No. [illegible] well adapted for car lighting. Firmly supported at top preventing breakage. Complete, bright [illegible]

Complete, bright [illegible]

No. 214 Post or Hanging Lamp

[illegible] No. [illegible] steel reflector [illegible] cast base; burner is placed high in lamp and very little shadow; more strongly constructed than the usual station lamp. No. 41 Master [illegible] No. [illegible] about 50 candle power

No. 214

Handlan Railroad Platform Lamps

No. 207 Post Lamp

No. 207.

For [illegible] tubes to dent, or fill up with cobwebs or [illegible] outside wick raiser and oil filler built for long and hard usage [illegible] use, 14 inches wide, 26 inches high with [illegible] post socket; built especially for [illegible] waiting rooms. Has heavy [illegible] cast iron frame very strongly constructed. No. 3 tubular globe. No. 40 Macbeth chimney. No. 3 [illegible] about 50 candle power

No. 216 Post Lamp

No. 216

For stations room or platform [illegible] tubes to dent, or fill up with cobwebs or insects outside wick raiser and oil filler built for long and hard usage [illegible] use, 14 inches wide, 26 inches high with [illegible] post socket; built especially for [illegible] waiting rooms. Has heavy [illegible] cast iron frame very strongly constructed. No. 3 tubular globe. No. 44 Macbeth chimney. No. [illegible] irregular burner; about 80 candle power

No. 7

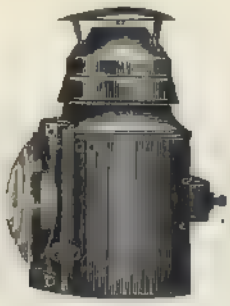
No. 207 Lamp Bracket

For Nos. 207, 214 or 216 Lamps

For use in waiting rooms, or where posts are not practical

Handlan Signal Lamps

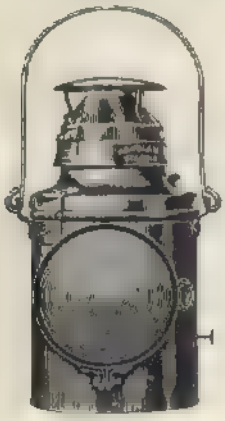
Section Motor Car Lamps



No 106. Tail lamp, with one $5\frac{1}{8}$-inch red lens
No 107 Head lamp with one $5\frac{1}{8}$-inch white lens

Has outside wick adjustment

No. 148 Hump Yard Lamp



No 148

With one $5\frac{1}{8}$ inch white lens No. 1 signal burner, outside wick raiser

No. 141 Advance Crossing Sign Lamp

No 141

Burns four days without attention lamp locked to bracket on warning sign post See Warning Sign page 130.

Handlan Motor Truck Lamps

No. 9 Tail Lamp

No. 9
Front View

No. 9
Front View, Door Open

No. 9
Side View

$3^{1}/_{8}$-inch lenses; wick regulated from outside

No. 8 Combination Tail and Head Lamp

No. 8
Side View, Lenses Off

Red to rear and white to front attached to side of truck. $3^{1}/_{2}$ inch lenses wick regulated from outside

Handlan Side Lamps

No. 42

No. 42 Side Lamp

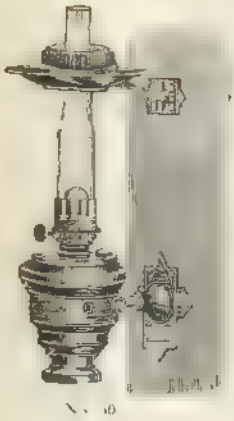
Seamless fount of steel, brass plated or brass polished; No. 2 Sun or No. 2 Oblong burner

No. 43

No. 43 Side Lamp

Argand burner; fount of steel, brass plated or brass polished.

Handlan Office and Station Bracket Lamps



No. 50

No. 50 Bronze Side Lamp

Has center draft Argand burner; made of sheet bronze, with cast bronze brackets; highly polished

No. 199

Bronzed iron bracket and wall plate, rigid or swinging bracket, center draft burner; very powerful light, drawn metal fount of steel, brass plated or brass polished

No. 199

Handlan Street Car End Lamps

No. 217

No. 217

From wall, over all, 6½ inches

Height, over all 23½ inches.

Represents our bracket end lamp with adjustable top, thus securing a perfect fit and freedom from rattling. It is made of bronze metal and is handsomely polished and lacquered

Shows the candle lamp attachment for the same lamp. It is interchangeable with the oil fount and is designed for the purpose of lighting electric cars in cases of emergency

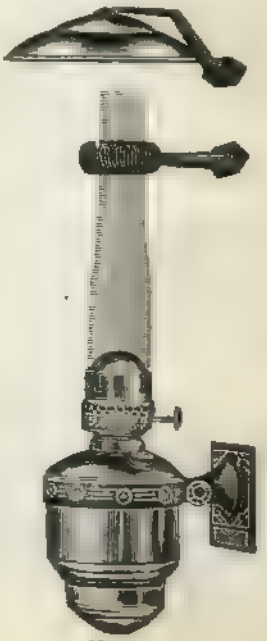
Complete, adjustable, with smoke jack . . . . . each
Complete, non adjustable, with smoke jack . . . . each
Complete for candle, with smoke jack . . . . . each

Handlan Side Lamps

No. 40

No. 40 Side Lamp

Seamless fount of steel, brass plated or brass polished; No. 2 Sun or No. 2 Osborn burner



No. 41

No. 41 Side Lamp

Argand burner fount of steel, brass plated or brass polished.

Handlan Caboose or Station Lamps

No. 47

Has a very large metal fount with filler screw, malleable iron bracket, rigid; fount adjustable in bracket; No 2 Sun or No. 2 Osborn burner, fount of steel, tin plated, or steel, brass plated

No. 4

No. 49

An all metal lamp with rigid brackets, the seamless drawn oil fount rests in a solid casing; double protection from leakage or dripping, gold bronzed; No. 2 Sun or No 2 Osborn burner.

Handlan Office and Station Bracket Lamps

No. 210

No. 210

Bronzed iron bracket and wall plate, rigid or swinging bracket; drawn metal fount; no leakage or breakage; deep fount; No. 2 Sun or No. 2 Osborn burner

No. 209

Bronzed iron bracket and wall plate rigid or swinging bracket; drawn metal fount; no leakage or breakage; shallow fount, No. 2 Sun or No. 2 Osborn burner

No. 209

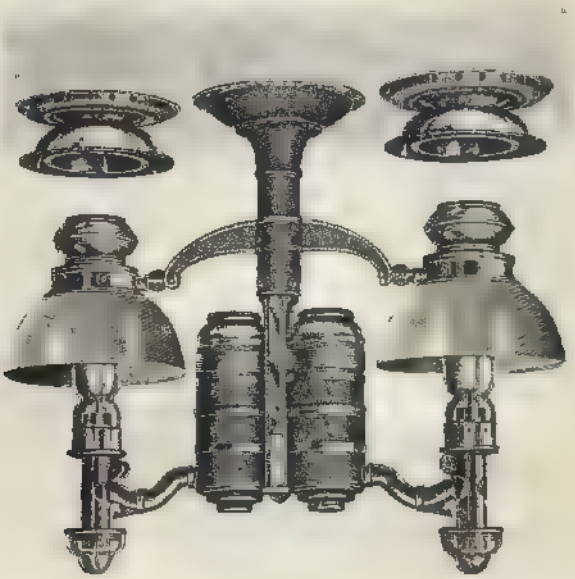
Handlan Car Lamps

No. 62

No. 62 Center Hurricane Lamp

Is a two-light patent center Hurricane lamp, 16 inches spread and made any required length, throwing no shadow and emitting a clear, steady and brilliant light. The wicks can be kept fully turned up at all times. The lamp is of the most substantial construction, while by means of a cam movement the movable portions can be readily removed or restored to their places as desired. This lamp has been established as the standard in the Pullman passenger cars and in the cars of the Metropolitan Elevated Railroad.

No. 124 Center Lamp



No. 124

Standard drop over all, 26 inches, distance from center to center of burner, 20½ inches; drop at center over bell cord, 23 inches.

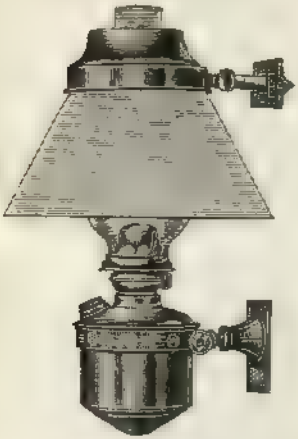
Used extensively in baggage, express and suburban cars. In ordering, state finish and drop over all required.

Above lamps any finish.

Handlan Car Lamps

Brass Lamps, Any Finish

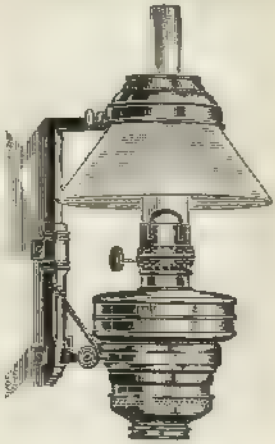
No. 126 Side Lamp



No. 126

No. 2 dual corner steel mount, brass plated, or brass mount polished or nickel-plated from wall over all, 9½ inches. Height over all, 15 inches.

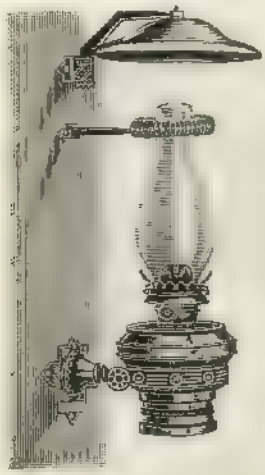
No. 132 Side Lamp



No. 132

From wall over all, 10¼ inches. Height over all 18¾ inches. Mooching burner, central draft.

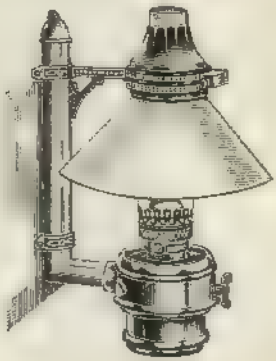
No. 130 Side Lamp



No. 130

From wall over all 9 inches, height over all, 20 inches; No. 2 dual burner.

No. 131 Side Lamp



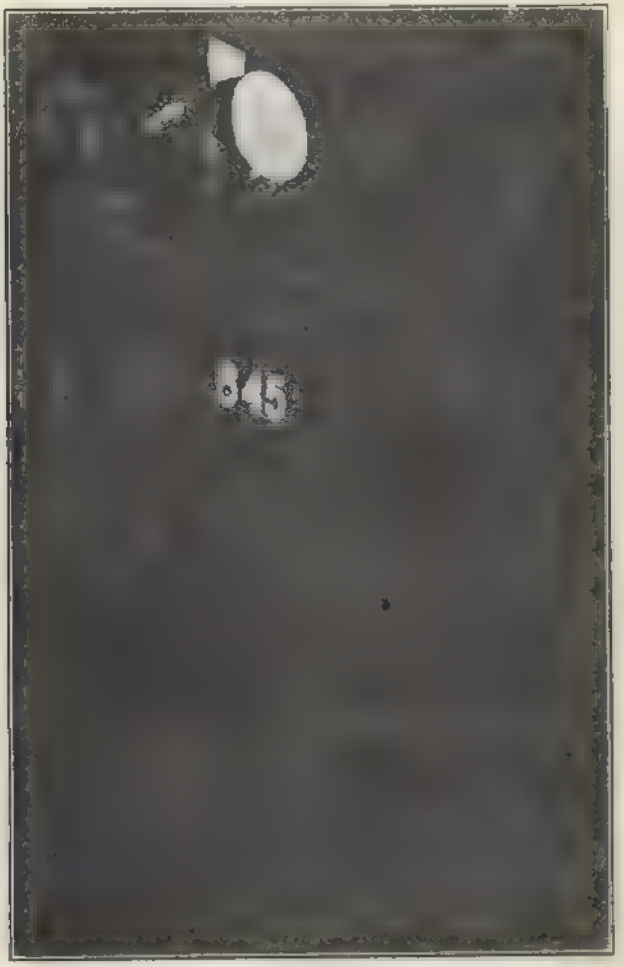
No. 131

From wall over all 11¼ inches. Height over all, 16 inches; No. 3 dual burner.

Above lamps any finish.

Handlan Train Indicators

For Oil and Electric Lamps



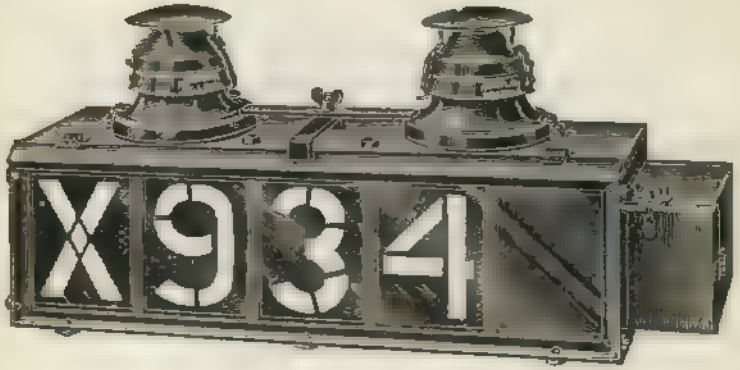
Three-minute night exposure photographic reproduction showing clearness of display of number on regular train No. 845 under glare of an electric headlight

When headlight is attached to front end door the indicator is placed above to clear the door or on top of extension front end

Handlan Train Indicators

For Oil and Electricity

No. 248 Indicator

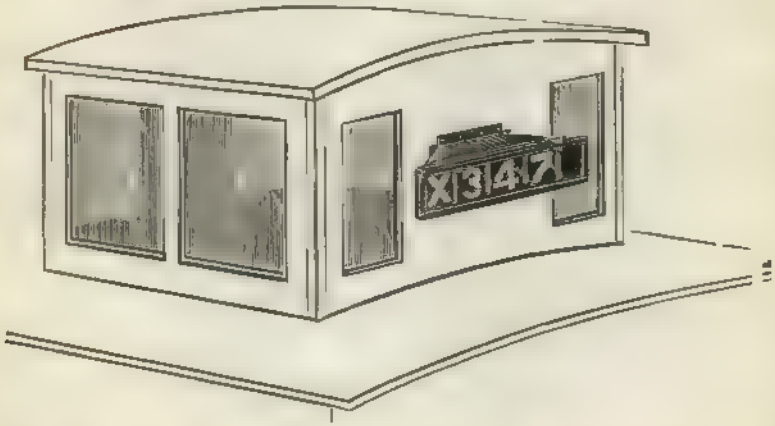


For oil only, same type of bracket as on No. 245

Handlan Train Indicators

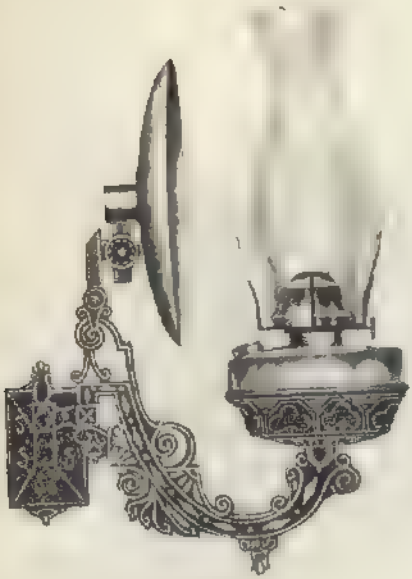
For Oil

No. 247 Cupola Indicator on Train Number Extra 347



No 247 Cupola Indicator in position in cupola Case for extra stencils attached to indicator inside of cupola

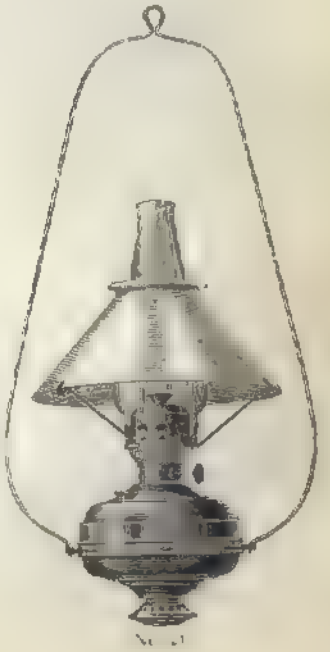
Handlan Office and Station Bracket Lamp



No. 211

No. 211

Bronzed iron bracket and wall plate; rigid or swinging bracket adjustable reflector holder; seamless drawn metal fount of extra large capacity; no leakage or breakage, No. 2 Sun or No. 2 Osborn burner



No. 213

All brass fount; highly polished; large capacity; filler screw; very powerful light.

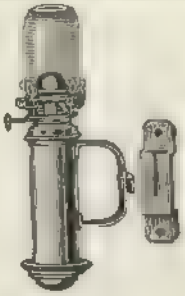
Lamp complete with chimney, harp, 10-inch opal shade and wick.

Handlan Candle Lamps

No. 61 Candle Lamp

No. 61
With Canopy

No. 6
Emergency Oil Side Lamp



No. 6
With Wall Socket
Take No. 40 burner, No. 5 chimney

No. 129 Candle Lamp

No. 129
I. C. Standard

No. 44 Candle Lamp

No. 44
Flush Wall Socket

No. 39 Candle Lamp

No. 39
Stationary Bracket
Emergency oil lamp; flush wall socket, gives 135 candle power.

Made of steel, nickel plated, with cast polished brass or brass nickel plated; take No. 45 or No. 22 chimneys.

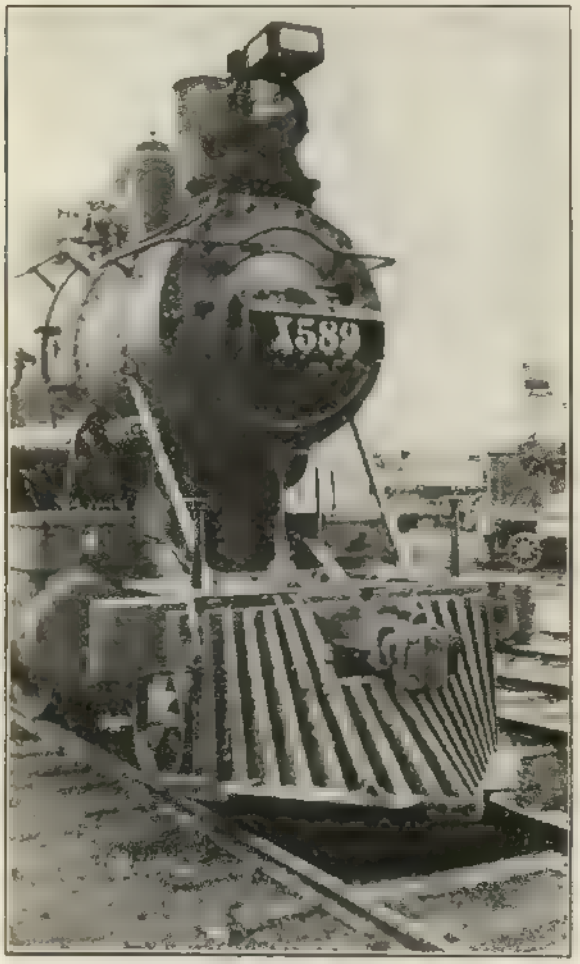
Handlan Train Indicators

For Oil and Electric Lamps

Nos 245 and 246 Engine Indicators in position on engine

Handlan Train Indicators

For Oil and Electric Lamps



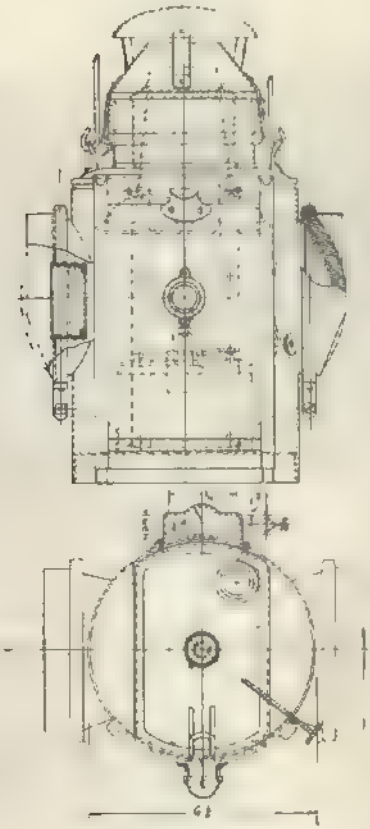
Photographic reproduction showing display of number on Extra 589

These indicators are placed squarely across on the front end of locomotive, and fastened to the front end door when headlights are in usual location

Handlan Signal Lamps

No. 20 R. S. A. Train Order Lamp

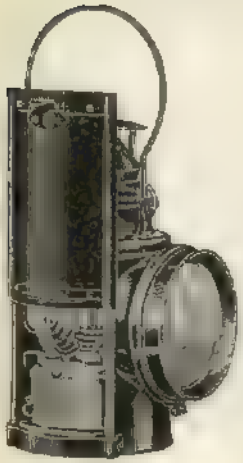
Wind Proof Rain Proof



Railway Signal Association Specification

No. 18 gauge steel
31-Ounce fount.
5 Inch [illegible] white lens
One-day or long-time burner
Improved oil pot guide
[illegible]

Handlan Signal Lamps



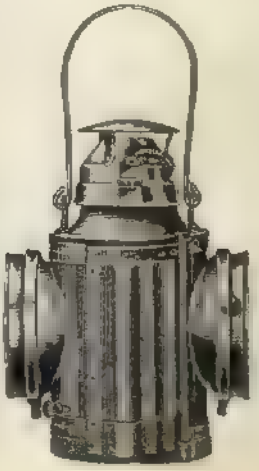
No. 104

No. 104 Semaphore Lamp

With 6⅜ inch white lens and cover glass; long time burner, 31-ounce fount; prism glass reflector.

No. 103 Train Order Lamp

With two 6⅜-inch white unveiled lenses with cover glass, one lens adjustable to obtain perfect alignment; 31-ounce fount, long-time burner



No. 103

Handlan Gauge Lamps

No. 272

No. 272

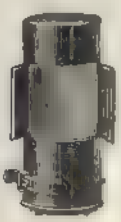
With standard No. 9 heat resisting globe, painted green; No. 1 or No. 1 Extra burner.
Price per dozen $24.00

No. 265 Combination Steam and Water Gauge Lamp

No. 265

Combination steam and water gauge lamp
Heavy tin . . . . per dozen $30.00
Heavy tin, japanned per dozen 36.00

No. 273 Steam Gauge Lamp



No. 273

No. 18 Gauge Steel

No. 274 Water Gauge Lamp

No. 274

No. 18 Gauge Steel

Davy and Clanny Safety Lamps

For detection of gas in coal mines, sewers and brewery vats

No. 2 Newcastle Davy No. 4 Universal Clanny

Extra gauges for Clanny

Extra gauges for Davy

Extra glasses for Clanny

Miners' Lamps

Spiral Feed, 2⅝-inch Reflector

Round Hook

No. 547	Polished brass, oil pot only	$1 00
No 548	Gun metal finish, lamp only	1 00
No 154	Polished brass with No 77 carrier can	1 10
No 155	Gun metal finish with No 77 carrier can	1 10
No 151	Polished brass with No 68 Ex bottom	1 20
No. 152	Gun metal finish with No 39 Ex bottom	1 20

Equipped with No 28 Jewel tips

Superintendents' Lamps

Nickel Plated, Highly Polished

2½-inch reflector, with lighter attachment Folding bail, hook and pocket carrier can Burns 3 hours with 2 ounces of ½-inch carbide Height, 4 inches, weight, 8 ounces. 18 candle power

Reflectors are built into the lamps

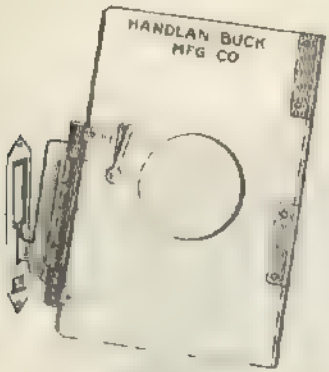
No 109 . . . . . $1 50

Miners' Caps

No 234.	Brown canvas	per dozen $2 25
No 235.	White canvas	per dozen 2 25

Handlan Metallic Signal Flags

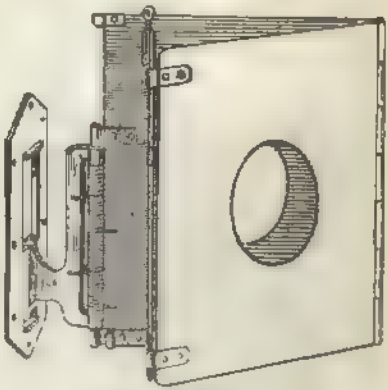
Tail Flag



No 282

Size 8x14 inches per dozen $11.00

Engine Flag



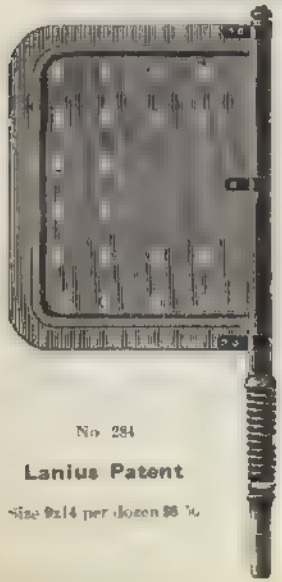
No 283

Size 9x14 inches per dozen $11.50

Indestructible, Reliable, Economical

Special attention is called to the spring cover to protect the flag at the staff when laid across the back of wood staff. Metal staff is not affected by heat. In the flag and cover is a perforated steel plate which can be painted any color. By the adoption of this design only two sizes to be carried in stock and any number of colors to contain all the different color requirements required for road and yard use. Metal staff is the most durable and strongest known and is not affected by heat or cold as wood is.

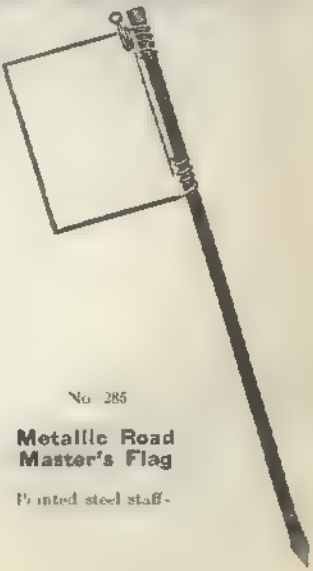
Running flags cannot wind the staff and are hard to distinguish when in motion as standing staff flags or when moving, fly straight back so that persons in front can only see them with difficulty, while the metallic flag, being firmly held by its springs, is always practically at right angles with the direction of the train's motion, and can be readily seen from any point of view.



No 284

Lanius Patent

Size 9x14 per dozen $8.75



No 285

Metallic Road Master's Flag

Painted steel staff.

Handlan Flags and Staffs

No. 289

No. 299

Metal Flagstaffs

Will last a lifetime, as there is nothing to wear out or break, while the old style staff has to be replaced very often

Absolutely Indestructible

Light in Weight
Convenient to Carry

Write for special circular on metallic flags

No. 288

Train Order Hoop.

No. 289

Wood staff with bunting flag; wire in groove to hold flag

Signal Bunting

Anchor Brand

Roll 40 Yards

Anchor Brand, red, white, green, yellow or blue.	per roll
Army Brand, red, white, green, yellow or blue	per roll
Special Brand, red, white, green yellow or blue..	per roll

Signal Bunting Flags

Any above colors, size 18 x 20 inches, hemmed	per dozen
Any above colors size 18 x 24 inches, hemmed	per dozen
Any above colors, size 18 x 20 in on wood staff	per dozen
Any above colors, size 18 x 20 in., on steel staff	per dozen
Any above colors, size 18 x 24 in , on wood staff	per dozen
Any above colors, size 18 x 24 in , on steel staff	per dozen

Wood Flag Staffs

Plain wood staff, split to receive flag any style or pattern made to order per dozen $3.00

Handlan Sleeping Car Signs

Enamel Signs

Send us your specifications

Handlan Metallic Flags

Single, Showing One Color

No. 280
Round Bracket
For Round Socket

No. 281
Flat Bracket
For Flat Socket

The above cuts show our latest patterns. The flag is made of sheet steel, the bracket of malleable iron. Exhaustive tests by some of the largest railroad systems have proven this flag more efficient and far more economical than the fabric flag.

All Metal No Wood Staffs Practically Indestructible

Will Not Fade, Tear or Soil

Always in view. The spring arrangement in the bracket keeps them constantly in motion. Are easily distinguished and can be seen at a greater distance than fabric flags. They do not droop or fly directly behind the staff, making it hard for the eye to detect them or their color.

DISPLAY BOARDS.

RIVERSIDE TOOLS.

TWO-INCH OAK FRAME.

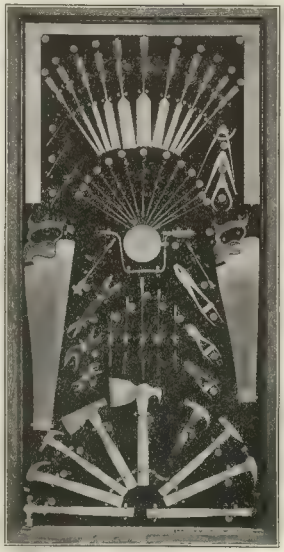
NO CHARGE FOR BOARD OR MOUNTING.

We are prepared to make special display boards of our Riverside Tools or of any other line of General Hardware, Builders' Hardware, Paint Brushes, Cutlery, Fishing Tackle, etc.

We will mount any or all of the items your customers may choose on boards covered with green or black felt and framed with heavy 2-inch oak. No glass cover is used as they invariably break and do not permit the goods to be examined as does the open face board. Any size or shape that your customer may desire.

FOR THE WINDOW.

As a display board for the window, as a background, or as an attraction for some special article on sale, this board is not only a psychological medium demanding the attention of the passer-by, but it is an article well placed and in harmony with any hardware window of any size—then after the board has been taken out of the window, it may be put to use in many different ways, always selling the goods it displays.



IN THE STORE.

There are always some spots on the walls of the hardware store that are vacant. This space is worth time and money. It affords a splendid opportunity for Mr. Merchant to show what he has to offer.

It does not require a long line of sales talk to sell a customer after she is in the store. He has come in with an object in mind—to purchase. It is up to Mr. Merchant to show him the goods and not sell him, but let him select by placing one of these attractive display boards up on the wall in front of the customer. You will be saving the salesmen in the store the work of getting out the stock, littering up the counter and putting it back again.

AN ATTRACTIVE BOARD.

We will mount on boards as illustrated above, any of our Riverside Tools, Builders' Hardware, Paint Brushes, Cutlery, Fishing Tackle, or any articles desired in an attractive manner, giving either a full line or just a representative line of each kind of article. We will furnish the boards and do the mounting, the customer to pay our regular wholesale price for the tools. You may give us a list of tools that the customer may select or you can leave it to us.

No Board will be prepared that contains less than $12.00 worth of tools.

HARMOGRAPH TALKING MACHINES

No. H175

PLAY ALL MAKES OF DISC RECORDS

A Marvelous Tone Reproducer; Most Perfect Acoustics; Reproducing Perfectly the Full Tones of the Human Voice with All Delicate Shadings; Renders the Soft Vibrations of the Violin the Sweet Tones of the Clarinet and the Rich Melody of the Full Orchestra.

Plays All Makes of Disc Records: Victor, Columbia, Edison and Pathe, without Changing Equipment. A Slight Turn Places Sound Box into Position for Playing Either Style of Record. Each Machine is Furnished with Two Jewel Points for Playing Edison and Pathe Records and 200 Needles for Playing Victor and Columbia Records.

The Amplifing Tone Chamber is Skillfully Built of Specially Prepared Resonant Woods, such as are used in Costly Violins. The Tone Modifier Regulates the Volume of Sound to Suit the Individual Taste; No Change of Needle is Required to Obtain [illegible]; Modifier is Operated from Outside of Cabinet While Machine is Playing.

The Harmograph has a Floating Sound Box Built for Free Motion and Balanced so as to have the Proper Weight for the Best Reproduction of Sound, Prolonging the Life of the Record and Producing an Even Harmonious Tone.

Motors are of the Horizontal, Worm Gear Type and are Equipped with Speed Regulator, which Controls the Velocity of the Turn Tables; Made of the Highest Grade Materials by Skilled Mechanics, and will [illegible] for Years with Ordinary Use.

No. H100

With 12 inch Turn Table, Double Spring Worm Gear Motor, which Can Be Wound While Playing; Speed Indicator, Speed Regulator and Tone Modifier; Furnished with 2 Jewel Points and 200 Steel Needles; All Metal Parts Highly Nickel Plated

Cabinet 42½ in. High; 20½ in. Deep; 18 in. Wide	Each	Cabinet 46 in. High; 20½ in. Deep; 21 in. Wide	Each
No. H 75—Mahogany	$75.00	✣No. H100 —Mahogany	$100 00
✣No. H G75 [illegible]	75 00	✣No. HG100 [illegible]	100 00
✣No. HF75—[illegible] Oak	75.00	✣No. HF100 —[illegible] Oak	100 00

Shipping Weight 110 lbs. Shipping [illegible]

CABINET WORK

The Triumph of Cabinetmakers' Art; Choice Rare Woods Worked by the Most Skillful [illegible] to Reveal Harmony, Grace and Beauty Show Under [illegible] Masterpieces of Handwork of Master Designers; with Richness [illegible] Finish, Supplying the Essentials to Real [illegible] and Magnificent Design.

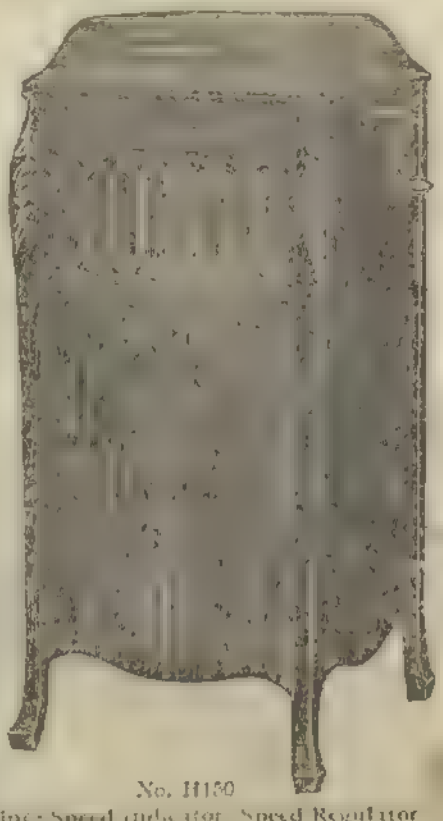
No. H125

EXTRA NEEDLES

	Each
No. PBN—Sapphire Jewel Ball Point for Pathe Records	$1.00
No. PBN—In Lots of 100	.50
No. PBN—" " " 1000	.50

	Each
No. EDN—Sapphire Jewel Diamond Point for Edison Records	$1.00
No. EDN—In Lots of 100	.70
No. EDN—" " " 1000	.50

	Per 100
No. SN—Steel Point for Victor, Columbia, Emerson and all Lateral Cut Records	$0 18
No. SN—In lots of 5M	17
No. SN—" " " 10M	.16
No. SN—" " " 25M	.15



No. H150

With 12 inch Turn Table, Double Spring Worm Gear Motor, which Can Be Wound While Playing; Speed Indicator, Speed Regulator and Tone Modifier; Furnished with 2 Jewel Points and 200 Needles; All Metal Parts Highly Nickel Plated

Cabinet 42½ in. High, [illegible] Deep, 21 in. Wide	List	Cabinet 46½ in. High, 21½ in. Deep, 21½ in. Wide	List
✣No. H125 [illegible]	$120 00	✣No. H150 [illegible]	$150 00
✣No. HG125 [illegible]	120 00	✣No. HG150 [illegible]	150 00
✣No. HF125 [illegible]	120 00	✣No. FG150 [illegible]	150 00

Shipping Weight 150 lbs. Shipping Weight [illegible]

Items Marked ✣ Not Carried in Stock; Can Only Be Furnished by Shipping from Chicago, Ill.

HARRINGTON & RICHARDSON REVOLVERS
DOUBLE ACTION—AUTOMATIC EJECTING

HAMMER

32 Caliber; 6 Shots; Rubber Handle; Shoots 32 S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 3231/4H—3¼ in Barrel, Weight 18 ozs.	$8 00
No. 324H —4 in Barrel, Weight 19 ozs	8 50
No. 325H —5 in. Barrel; Weight 20 ozs.	9.00

Blued

No. 2323¼H —3¼ in. Barrel; Weight 18 ozs	8.50
No. 2324H 4 in Barrel; Weight 19 ozs	9.00
No. 2325H 5 in Barrel; Weight 20 ozs	9.50

38 Caliber; 5 Shots, Rubber Handle, Shoots 38 S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 3831/4H—3¼ in Barrel; Weight 17 ozs	$8.00
No. 384H 4 in Barrel, Weight 18 ozs	8.50
No. 385H —5 in. Barrel, Weight 19 ozs	9.00

Blued

No. 2383¼H 3¼ in Barrel; Weight 17 ozs	8.50
No. 2384H 4 in Barrel, Weight 18 ozs	9.00

One in a Box

PREMIER HAMMER

22 Caliber; 7 Shots; Small Frame; Rubber Handle; Shoots BB Caps; 22 SRF or 22 LRF Cartridges.

Nickel Plated

	Each
No. 223PH —3 in. Barrel; Wt. 13 ozs.	$8 00
No. 225PH—5 in. Barrel; Wt. 15 ozs.; for Target Practice.	9.00
No. 226PH—6 in. Barrel; Wt. 16 ozs.; for Target Practice.	9.50

Blued

No. 2223PH —3 in Barrel; Wt 13 ozs	9 00
No. 2225PH —5 in Barrel, Wt 15 ozs ; for Target Practice	9 50
No. 2226PH—6 in Barrel, Wt. 16 ozs ; for Target Practice	10.00

32 Caliber; 5 Shots; Small Frame; Rubber Handle; Shoots 32 S&W Central Fire Cartridges.

Nickel Plated

No. 322PH—2 in Barrel; Wt 11 ozs ; for Bicyclists	$8.00
No. 323PH—3 in. Barrel; Wt. 12 ozs.	8.00
No. 326PH —6 in. Barrel; Wt 14 ozs ; for Target Practice.	9.50

Blued

No. 2322PH—2 in Barrel; Wt 11 ozs ; for Bicyclists	$8.50
No. 2323PH —3 in Barrel, Wt 12 ozs	8.50
No. 2325PH —6 in Barrel; Wt. 13 ozs for Target Practice	9.50

One in a Box

HAMMERLESS

32 Caliber; 5 Shots; Small Frame; Rubber Handle; Shoots 32 S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 3228HH—2 in. Barrel; Weight 12 ozs. for Bicyclists	$9.50
No. 323HH —3 in Barrel; Weight 13 ozs	9.50
No. 324HH 4 in Barrel, Weight 14 ozs	10.00
No. 325HH 5 in Barrel, Weight 15 ozs	10.50
No. 326HH —6 in. Barrel; Weight 15 ozs	11.00

Blued

No. 2322HH—2 in. Barrel; Weight 12 ozs. for Bicyclists	$10 00
No. 2323HH 3 in Barrel; Weight 13 ozs	10 00
No. 2324HH 4 in. Barrel; Weight 14 ozs	10.50

38 Caliber; 5 Shots, Regular Frame; Shoots 38 S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 3831/2HH 3¼ in Barrel; Weight 18 ozs	$9.50
No. 384HH 4 in Barrel, Weight 18 ozs	10.00

Blued

No. 2383½HH 3¼ in Barrel, Weight 17 ozs	$10 00
No. 2384HH 4 in Barrel, Weight 18 ozs	10.50
No. 2385HH 5 in Barrel; Weight 19 ozs	11.00

One in a Box

PREMIER WITH TARGET GRIP

32 Caliber; 5 Shots, Small Frame; Rubber Handle, Shoots 32 S&W Central Fire Cartridge

Nickel Plated

	Each
No. 324HTG 4 in Barrel, Weight 19 ozs	$11.00

Blued

No. 2324HTG—4 in. Barrel; Weight 19 ozs	11.50

38 Caliber; 5 Shots, Regular Frame; Rubber Handle; Shoots 38 S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 384HTG 4 in. Barrel; Weight 19 ozs	$11 00

Blued

No 2384HTG—4 in Barrel; Weight 19 ozs	11.50

One in a Box

SPECIAL HARRINGTON & RICHARDSON REVOLVERS

DOUBLE ACTION—AUTOMATIC EJECTING

Cut Shows Hammerless Revolver

HAMMER

32 Caliber; 6 Shots; Pearl Handle, Shoots 32 S&W Central Fire Cartridges

Nickel Plated Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP323¼H—3¼ in. Barrel; Weight 18 ozs.	**$12 00**
No. GP324H —4 in. Barrel; Weight 19 ozs.	**12 50**

Blued Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP2323¼H—3¼ in. Barrel; Weight 18 ozs.	**$12 50**
No. GP2324H —4 in. Barrel; Weight 19 ozs.	**13 00**

38 Caliber; 5 Shots; Pearl Handle; Shoots 38 S&W Central Fire Cartridges

Nickel Plated Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP383¼H—3¼ in. Barrel; Weight 17 ozs.	**$12 00**
No. GP384H —4 in. Barrel; Weight 18 ozs.	**12 50**

Blued Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP2383¼H—3¼ in. Barrel; Weight 17 ozs.	**$12 50**
No. GP2384H —4 in. Barrel; Weight 18 ozs.	**13 00**

HAMMERLESS

32 Caliber; 5 Shots; Small Frame; Pearl Handle; Shoots 32 S&W Central Fire Cartridges.

Nickel Plated Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP323HH—3 in. Barrel; Weight 13 ozs.	**$13 50**
No. GP324HH—4 in. Barrel; Weight 13 ozs.	**14 00**

Blued Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP2323HH—3 in. Barrel; Weight 13 ozs.	**$14 00**
No. GP2324HH—4 in. Barrel; Weight 13 ozs.	**14 50**

38 Caliber; 5 Shots; Regular Frame; Shoots 38 S&W Central Fire Cartridges.

Nickel Plated Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP383¼HH—3¼ in. Barrel; Weight 15 ozs.	**$13 50**
No. GP384HH —4 in. Barrel; Weight 18 ozs.	**14 00**

Blued Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP2383¼HH—3¼ in. Barrel; Weight 17 ozs.	**$14 00**
No. GP2384HH —4 in. Barrel; Weight 19 ozs.	**14 50**

PREMIER HAMMER

22 Caliber, 7 Shots; Small Frame; Pearl Handle, Shoots BB Caps 22 SRF or 22 LRF Cartridges.

Nickel Plated Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP223PH—3 in. Barrel; Weight 13 ozs.	**$11 50**

Blued Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP2223PH—3 in. Barrel; Weight 13 oz.	**$12 00**

32 Caliber; 5 Shot Small Frame; Pearl Handle; Shoots 32 S&W Central Fire Cartridges.

Nickel Plated Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP323PH -3 in. Barrel Weight 12 oz.	**$11 50**

Blued Frame and Barrel; Gold Gilt Cylinder

	Each
No. GP2323PH—3 in. Barrel, Weight 12 ozs.	**$12 00**

One in a Box

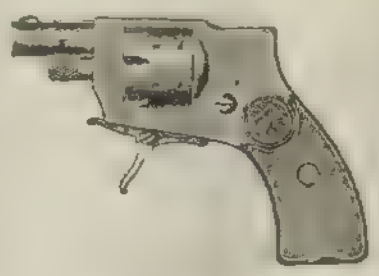
REVOLVERS

SINGLE ACTION

7 Shots; 2¼ inch Round Barrel; Rubber Saw Handle; Plain Cylinder; Weight 7 ozs. Nickel Plated.

	Each
No. 22SH—22 Caliber; Shoots 22 SRF or 22LRF Cartridges.	**$3 00**

One in a Box



BABY HAMMERLESS

Model 1910

Folding Trigger; All Steel Interchangeable Parts; Accurately Rifled; Black Rubber Handles. A Well Made and Strong Weapon Especially Adapted to Ladies' Use as a Home Protector, or as a Vest Pocket Revolver.

22 Caliber

1⅝ inch Barrel; 6 Shots; Shoots 22 Short Rim Fire Cartridges Weight 6 ozs.

	Each
No. 22BH –Nickel Plated.	**$5 00**
No. 222BH –Blued Finish.	**5.50**

One in a Box

DERRINGERS

DOUBLE—DERRINGER

Two Shots; 3 inch Barrel; Checkered Rubber Stock; Length Over All 4½ inches; Weight 11 ozs.

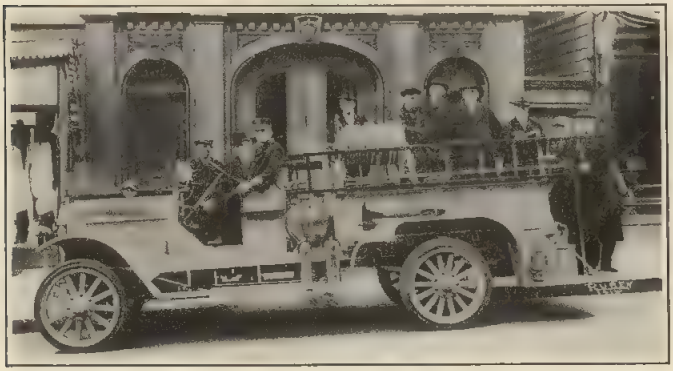
	Each
No. 41R -41 Caliber; Nickel Plated; Rubber Handle; Shoots 41SRF Cartridges.	**$13 90**
No. 241R -41 Caliber; Blued; Rubber Handle; Shoots 41SRF Cartridges.	**13 90**
No. 41RI -41 Caliber; Nickel Plated; Ivory Handle, Shoots 41SRF Cartridges.	**19 70**
No. 41RP -41 Caliber, Nickel Plated; Pearl Handle; Shoots 41SRF Cartridges.	**18 80**

One in a Box

Motorized Municipal Essentials

DUPLEX HOOK AND LADDER TRUCK USED IN HARRISBURG, PA

A ROBINSON HIGH DUTY ENGINE FOR NEW YORK CITY



SOUTH BEND COMBINATION TRUCK OF RINGGOLD HOSE COMPANY, IN NEWBURGH, N. Y.

GUN WADS

Regular Felt

Style B. Cardboard

Regular

10 gauge	Per 1000	$2.70
12 gauge	Per 1000	2.25
16 gauge	Per 1000	2.25

250 in a Box, 1000 in a Package

Style B

10 gauge	Per 1000	$0.40
12 gauge	Per 1000	.35
16 gauge	Per 1000	.35

250 in a Box, 1000 in a Package

PRIMERS

No. 1.—Winchester Improved Primers Adapted to .32 Extra Long, .22, .32 .38 and .44 Winchester, .38 Extra Long .44 Evans and .45-70 Marlin cartridges.....Per 1000 $3.80

100 in a Box, 50M in a Case.

No. 1W.—Winchester Improved Primers for smokeless powders. Adapted to same shells as No. 1.....Per 1000 $3.80

100 in a Box, 50M Case.

No. 1½.—Winchester Improved Primers. Adapted to 32 S. & W., .32 Colt, .32 Long, .32 Short, .38 Short, .38 M. & H. .38 Long Colt D. A.Per 1000 $3.60

250 in a Box, 50M in a Case.

No 1½W.—Winchester Improved Copper Primers for smokeless powders Adapted to 32 S & W., .32 Colt 32 long, .32 short, .38 short, 38 M. & H., .38 long Colt D. A.. .38 S. & W., .41 Colt D. A., and .44 M. & H. cartridges.....Per 1000 $3.80

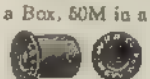
100 in a Box, 50M in a Case.

No. 2.—Winchester Improved Copper Primers. Adapted to .41, .44 S. & W. Russian, .44 S & W. American, .44 Colt, .45 Webley, 45 C lt. 45 S & W 50 pist l cartridges and paper and brass shot shells ..Per 1000 $3.80

100 in a Box, 50M in a Case.

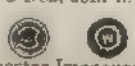
No. 2½W.—Winchester Improved Primers for smokeless powders. Adapted to military and sporting cartridges. Per 1000..... $3.80

100 in a Box, 50M in a Case.



New No. 4.—Winchester Primers for Winchester "Leader," "Repeater," "Metal Lined," and "Pigeon" shells with smokeless powders....Per 1000 $3.80

100 in a Box, 25M in a Case.



No. 5½.—Winchester Improved Primers. Adapted to 32 Winchester Special, .33 W. C. F., .38-55, .45-70, .45-90 and .50-110 Winchester High Velocity cartridges.....Per 1000 $3.80

100 in a Box, 50M in a Case.

GUN CAPS

G. D.—Caps, sizes 42 and 43, in tin boxes.....Per 1000 $1.35

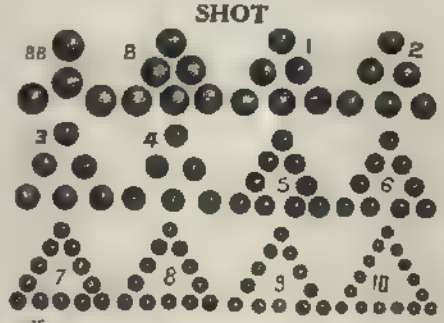
F. L.—Foil-lined caps, sizes 10, 11 and 12, in brass boxes.....Per 1000 1.35

E. B.—Foil-lined Center-fire caps, sizes 10, 11 and 12, in brass boxes. Per 1000 1.90

No. 1. -Musket caps, in tin boxes Per 1000 ..... 2.10

100 in a Box, 1000 in a Package.

SHOT



Nos. 1 to 10—Drop shot..Per 25 lb. sack $5.00

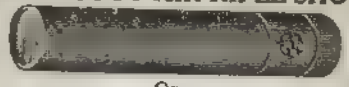
Nos. 6 and 7½—Chilled shot, Per 25 lb. sack 6.00

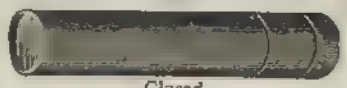
No. B—Drop shot..... ..Per 25 lb sack 5.50

No. BB -Air Rifle.....Per 25 lb sack 5.50

Nos. 2 to 8—Buck Shot...Per 5 lb. sack 1.50

BOY SCOUT AIR RIFLE SHOT


Open


Closed

This Shot is made with especial care to fit most makes of Air Rifles. The tube is designed for pocket use, and by turning the band, the shot may be removed as wanted 250 pellets in a tube, weight 5 oz. 100 Tubes in a Case

Boy Scout Shot.....Per Case $8.00

NOTE—We will not ship less than full case lots

SPORTING POWDER

Shipped from Magazine Only

F G.

F. F. G.

BLACK

Each		Each
25 lb. Kegs... $....	6¼ lb. Kegs .$	
12½ lb. Kegs...	1 lb. Cans.. ..	

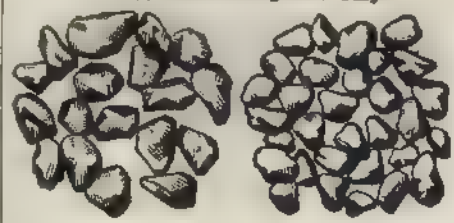
SMOKELESS

Each		Each
25 lb. Kegs... $....	6¼ lb. Kegs .$	
12½ lb. Kegs...	1 lb. Cans.. ..	

R. R. Cos. require twenty-four hours notice before shipping, excepting magazines at stations that have regular shipping days.

BLASTING AND MINING POWDER

Shipped from Magazine Only

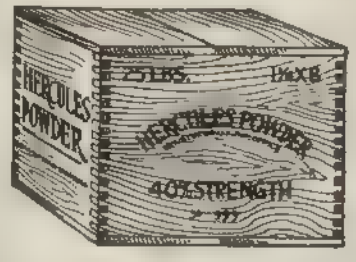


F FF

25 lb. Kegs.... ....Each $.....

DYNAMITE

Shipped from Magazine Only



In making Hercules dynamite the nitroglycerin is so compounded with fine wood pulp and other material, that the sensitive nitroglycerin is robbed of much of its dangerous quality. When the process of manufacture is completed, the product closely resembles a slightly damp and very fine sawdust It is then packed into cylindrical shells of tough paraffined paper known as cartridges. The standard size of a cartridge is 1¼ inches in diameter and 8 inches in length. This weighs about one-half a pound, and there are 50 pounds, net weight, of dynamite packed in a shipping case.

Hercules Extra Ammonia

Extra Low Freezing

25%	Per 100 lbs. $.....
30%	Per 100 lbs. $.....
35%	Per 100 lbs. $.....
40%	Per 100 lbs. $.....
45%	Per 100 lbs. $.....
50%	Per 100 lbs. $.....
60%	Per 100 lbs. $.....

Hercules Extra Ammonia

25%	Per 100 lbs. $.....
30%	Per 100 lbs. $.....
35%	Per 100 lbs. $.....
40%	Per 100 lbs. $.....
45%	Per 100 lbs. $.....
50%	Per 100 lbs. $.....
60%	Per 100 lbs. $.....

Hercules Gelatin & Nitroglycerin

Extra Low Freezing

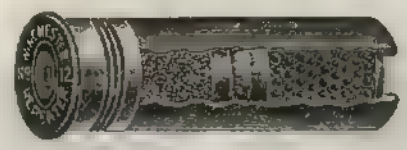
35%	Per 100 lbs. $.....
40%	Per 100 lbs. $.....
45%	Per 100 lbs. $.....
50%	Per 100 lbs. $.....
60%	Per 100 lbs. $.....

Hercules Gelatin & Nitroglycerin

35%	Per 100 lbs. $.....
40%	Per 100 lbs. $.....
45%	Per 100 lbs. $.....
50%	Per 100 lbs. $.....
60%	Per 100 lbs. $.....

R. R. Cos. require 24 hours notice before shipping blasting powder and dynamite unless they have regular stated days for shipping.

LOADED PAPER SHOTGUN SHELLS



16 Gauge, Drop and Chilled Shot
Loaded with Dupont Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
R61D8	2¼	1	8	$45 00
R61D7½C	2½	1	7½C	48.00
R61D7	2½	1	7	45.00
R61D6	2½	1	6	45.00
R61D6C	2½	1	6C	48.00
R61D5	2½	1	5	45.00
R61D5C	2½	1	5C	48.00
R61D4	2½	1	4	45.00
R61D4C	2½	1	4C	48.00
R61D2	2½	1	2	45.00

20 Gauge, Drop and Chilled Shot
Loaded with Dupont Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
R53D8	2¼	⅞	8	$44.50
R53D7½C	2¼	⅞	7½C	47 50
R53D7	2¼	⅞	7	44 50
R53D6	2¼	⅞	6	44.50
R53D6C	2¼	⅞	6C	47 50
R53D5	2¼	⅞	5	44.50
R53D5C	2¼	⅞	5C	47 50
R53D4	2¼	⅞	4	44.50
R53D4C	2¼	⅞	4C	47.50

28 Gauge, Drop Shot
Loaded with Dupont Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
R23D8	1¾	⅝	8	$47.50
R23D6	1¾	⅝	6	47.50

REPEATER "BRUSH" LOAD

Loaded with high-grade smokeless powder. One grease proof and two black-edge wads over powder, card wads at regular intervals in shot.

12 Gauge, Drop and Chilled Shot
Loaded with Dupont Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
RB76D8	3	1⅛	8	$51.00
RB76D7½C	3	1⅛	7½C	54 00
RB76D6	3	1⅛	6	51.00

16 Gauge, Drop and Chilled Shot
Loaded with Dupont Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
RB61D7½C	2½	1	7½C	$51 00
RB61D6	2½	1	6	48 00

20 Gauge, Drop and Chilled Shot
Loaded with Dupont Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
RB53D7½C	2¼	⅞	7½C	$50.50
RB53D6	2¼	⅞	6	47.50

LEADER

Loaded with high-grade smokeless powder. One grease-proof and two black-edge wads over powder, one cardboard wad over shot.

12 Gauge, Drop and Chilled Shot
Loaded with Dupont Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
76D7½C	3	1⅛	7½C	$56 50
76D8	3	1⅛	8	53 50
76D6C	3	1⅛	6C	56 50
76D5	3	1⅛	5	53 50
76D5C	3	1⅛	5C	56 50
76D4	3	1⅛	4	53 50
76D4C	3	1⅛	4C	56.50
77D7½C	3	1¼	7½C	58.25
38D7½C	3½	1¼	7½C	59.50
78D7½C	3½	1¼	7½C	57.75
78D7	3½	1¼	7	54 75
78D6	3½	1¼	6	54.75
78D6C	3½	1¼	6C	57.75
78D5	3½	1¼	5	54 75
78D5C	3½	1¼	5C	57 75
78D4	3½	1¼	4	54 75
78D4C	3½	1¼	4C	57 75
78DBB	3½	1¼	BB	57 75

12 Gauge, Chilled Shot
Loaded with Ballistite Smokeless Powder

Numbers	Powder Grains	Shot Ounces	Size of Shot	Per 1000
77B7½C	24	1¼	7½C	$58 25
38B7½C	25	1¼	7½C	59 50

12 Gauge, Chilled Shot
Loaded with E. C. Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
77EC7½C	3	1¼	7½C	$58 25
38EC7½C	3¼	1¼	7½C	59 50

12 Gauge, Chilled Shot
Loaded with Dead Shot Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
77DS7½C	3	1¼	7½C	$58 25
38DS7½C	3¼	1¼	7½C	59 50

12 Gauge, Chilled Shot
Loaded with L. & R. Infallible Smokeless Powder

Number	Powder Grains	Shot Ounces	Size of Shot	Per 1000
38L7½C	25	1¼	7½C	$59.50

LEADER

Loaded with high-grade smokeless powder One grease-proof and two black-edge wads over powder, one cardboard wad over shot.

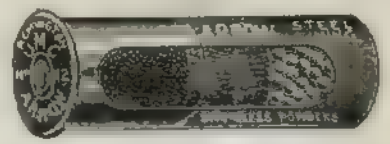
16 Gauge, Drop and Chilled Shot
Loaded with Dupont Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
61D7½C	2½	1	7½C	$53.50
61D6	2½	1	6	50.50
61D4	2½	1	4	50.50
61D2	2½	1	2	50 50

20 Gauge, Drop and Chilled Shot
Loaded with Dupont Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
53D8	2¼	⅞	8	$50 00
53D7½C	2¼	⅞	7½C	53.00
53D6	2¼	⅞	6	50 00
53D5	2¼	⅞	5	50 00
53D4	2¼	⅞	4	50.00

ARROW



Loaded with high-grade smokeless powder. One grease-proof and two black-edge wads over powder, one cardboard wad over shot.

12 Gauge, Drop and Chilled Shot
Loaded with Dupont Smokeless Powder

Numbers	Powder Drams	Shot Ounces	Size of Shot	Per 1000
8D7½C	3	1¼	7½C	$58.25
9D7½C	3¼	1⅛	7½C	57 75
9D6	3¼	1⅛	6	54 75
9D6C	3¼	1⅛	6C	57 75
9D5	3¼	1⅛	5	54 75
9D5C	3¼	1⅛	5C	57 75
9D4	3¼	1⅛	4	54 75
9D4C	3¼	1⅛	4C	57 75
10D6C	3¼	1¼	6C	59 50
10D4	3¼	1¼	4	56 50
10D4C	3¼	1¼	4C	59.50

12 Gauge, Chilled Shot
Loaded with Ballistite Smokeless Powder

Number	Powder Grains	Shot Ounces	Size of Shot	Per 1000
8B7½C	24	1¼	7½C	$58.25

Loaded Shells are packed 25 in a Box, 500 in a Case

EMPTY BRASS SHOT SHELLS

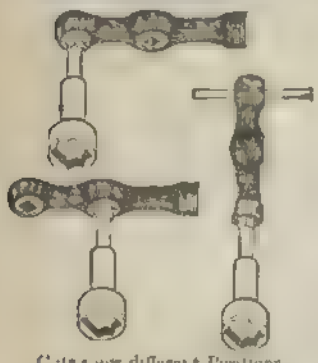
"First quality," using No. 2 primer, 2¾ in 12 gauge.....Per 100 $9 50
25 in a Box

SOCKET OR NUT WRENCHES

These Wrenches will work successfully in all sorts of awkward places where no other style of Wrench can reach. They are adapted to the needs of Automobilists and will also be found of great value in any Branch of Machine or Engine use.

HERCULES

This is the Best Set of Socket Wrenches ever put up for the needs of Automobilists. They are compact and made of the Best Material to stand Hard Strains. They can be used on Square or Hexagon Nuts and are provided with Square Shanks so they can be operated with a Bit Brace. However, a Special Wrench Handle is included which will fit all sizes of Wrenches in this Set.



Cuts show different Positions to which Handle can be Used

Special Wrench Handle is made with Three Holes, One in the Center for Ordinary use, one at the end for Close Cramped Quarters and one at the end for use through Narrow Openings.

Per Set

No. CM7—All made of Cast Steel, Case Hardened; Mottled Finish; Set consists of Six Wrenches and One Handle; One Each Wrench 3/16, ¼, 5/16, 3/8, 7/16 and ½ inch; Weight per Set 2½ lbs. **$4 50**

One Set in a Canvas Roll

LITTLE GIANT

For use in Bit Brace; For Square or Hexagon Nuts; Mottled Finish.

Will Work Successfully in all Sorts of Awkward Places, Where no other Style of Wrench can reach, and by their Hardiness, have become almost Indispensable to Carriage Shops; weight each about ⅜ lb.

Nos.	1	2	3	4
Diameter across Flat, in	5/16	3/8	7/16	1/2
Length Square Shank, in	1 1/4	1 1/2	1 3/4	2
Fits Mfgr's Standard Nut	1/4	5/16	3/8	7/16
Each	$0 48	.48	.48	.48

Nos.	5	6	7	8	9
Diameter across Flat, in	9/16	5/8	11/16	3/4	13/16
Length Square Shank, in	2	2	2	2 1/16	2
Fits Mfgr's Standard Nut	9/16	5/8	11/16	3/4	13/16
Each	$0 48	.48	.48	.48	.48

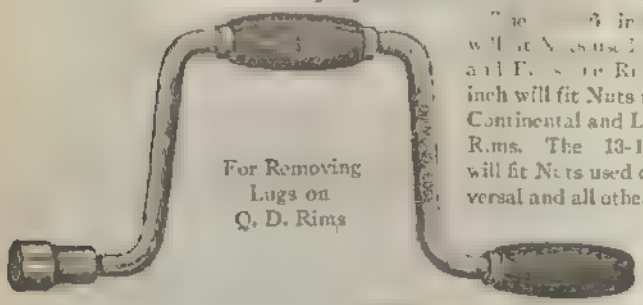
Per Set

No. 1412—In Sets of Five Sizes: Nos. 2, 3, 6, 7 and 9. Weight 2 lbs. **$2 40**

One Set in a Box

AUTO RIM BRACE WRENCH

★DIAMOND EDGE



For Removing Lugs on Q. D. Rims

The 9 inch Size will fit Nuts used on Detachable and Demountable Rims; ¾ inch will fit Nuts used on Continental and Lambert Rims. The 13-16 inch will fit Nuts used on Universal and all other Rims.

No. DE125

Highest Quality Tool Steel; Drop Forged Socket; Full Nickel Plated and Polished; Cocobolo Handles; 10 inch Sweep.

Size, Inches	11 16	3 4	13 16
Weight per Dozen, lbs.	20	20	20
Per Dozen	$27 00	27 00	27 00

For Hexagon Nuts and Cap Screws

WILLIAMS

Straight Pattern with Pin Handle Drop Forged Steel; Case Hardened Semi Finish; Face of Heads Hardened and Ground Bright; Milled Openings, Hexagon End of Shank is designed for use in combination with other wrenches to secure greater leverage.

Nos.	963D	964A	965D	965A	966D
Diameter of Hexagon, inch	11/16	3/4	7/8	7/8	1
Diameter of Shank, inch	3/8	3/8	7/16	7/16	1/2
Length, inch	1 5/8	1 3/4	2	2	2 1/4
Length of Handle Opening, inch	5/8	3/4	7/8	7/8	1 1/8
Diameter of Handle Pin, inch	9/32	9/32	5/16	5/16	11/32
Fits Stand. Nuts, Bolt Size, inch	1/4	1/4	5/16	5/16	3/8
Fits Cap Screws, Diam., inch	1/4	5/16	3/8	3/8	7/16
Diameter of Opening, inch	2 3/16	2 3/16	2 3/4	2 3/4	3 1/16
Bolt Size, Hexagon End, inch	7/16	7/16	1/2	1/2	5/8
Weight Each, oz	3	3 1/2	5	5	7
Each	$0 64	68	76	76	82

Nos.	967A	967D	968A	968D	969A
Diameter of Hexagon, inch	1	1	1 1/8	1 1/8	1 1/4
Diameter of Shank, inch	9/16	9/16	5/8	5/8	5/8
Length, inch	2 1/4	2 1/4	2 1/2	2 1/2	2 3/4
Length of Handle Opening, inch	1	1	1 1/8	1 1/8	1 1/4
Diameter of Handle Pin, inch	11/32	11/32	3/8	3/8	13/32
Fits Stand. Nuts, Bolt Size, inch	1/2	1/2	5/8	5/8	3/4
Fits Cap Screws, Diam., inch	7/16	7/16	1/2	1/2	9/16
Diameter of Opening, inch	3 1/16	3 1/16	3 7/16	3 7/16	3 7/8
Bolt Size, Hexagon End, inch	3/4	3/4	7/8	7/8	1
Weight Each, oz	9	9	11	11	14
Each	$0 94	94	1 00	1 00	1 20

Nos.	970A	970D	971A	971D	973A
Diameter of Hexagon, inch	1 1/4	1 1/4	1 1/4	1 1/4	1 1/8
Diameter of Shank, inch	11/16	11/16	3/4	3/4	7/8
Length, inch	3	3	3 1/2	3 1/2	3 1/2
Length of Handle Opening, inch	1 1/4	1 1/4	1 1/2	1 1/2	1 5/8
Diam. of Handle Pin, inch	7/16	7/16	1/2	1/2	1/2
Fits Stand. Nuts, Bolt Size, inch	9/16	9/16	5/8	5/8	1
Fits Cap Screws, Diam., inch	1/2	1/2	5/8	5/8	1
Diameter of Opening, inch	3 15/16	3 15/16	4 1/4	4 1/4	4 1/2
Bolt Size, Hexagon End, inch	1	1	1 1/8	1 1/8	1 1/4
Weight, oz	15	15	21	21	32
Each	$0 1 30	1 30	1 50	1 50	2 00

Loose

✣ASSORTMENTS

NOTE—The Display Boards are not sold and must be returned to J. H. Williams & Co., Brooklyn, N. Y., should the dealer discontinue the sale of these Wrenches.

The unusually great service-giving qualities with their readier application to duties, have induced the offering of this selection of Williams' Pin Handle and Offset Handle Socket Wrenches, which will care for the majority of needs within ¼ inch to ¾ inch nut and screw dimensions. An interesting assortment providing for "Ford" vehicles and assorted machinery needs generally.

Assortments consist of three each of the following number in both Pin Handle and Offset Styles; (66 wrenches)—963D, 964A, 965D, 966D, 967A, 967D, 968A, 968D, 969A, 970A, 970D.

Per Assortment

✣**No. C—Semi-Finished** **$51 20 42 69**

✣**No. D—Polished** **66 00 54 93**

Items Marked ✣ Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory, F. O. B. Chicago or Brooklyn, N. Y.

WRENCHES

GENERAL SERVICE

For Use in Erecting or Dismantling Plows, Carriages, Wagons, Farm Implements, etc., and for General Service where a Light and Long Wrench is Desired.

★DIAMOND EDGE

22½° Angle; Double Head; Highest Quality Drop Forged Steel; Case Hardened; Natural Finish; Milled Jaws.

Nos.	675B	677B	679	681B	683B
Openings, Inch...	⅜-⅞	½-⅝	⅝-1	¾-1	⅞-1
Length, Inches...	6¼	7⅛	8¼	10¼	13⅜
Thickness, Inch..	⅞	¼	⅝	⅝	⅞
Weight per Doz., lbs.	5	6	9	13	16
Each	$0.18	.22	.28	.38	.46	.60

Half Dozen in a Box

IN SETS

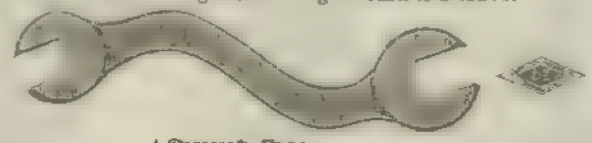
Five Wrenches; One Each 675B, 677B, 679, 681B and 683B.

Per Set

No. DE35—In Box; Weight per Set about 3¼ lbs..... $2 00
No. DER35—In Canvas Roll; Weight per Set about 3¼ lbs 2 20

GENERAL SERVICE

For General Service where a Light and Long Wrench is Desired.



★DIAMOND EDGE

22½° Angle; Double Head; Highest Quality Drop Forged Steel, Case Hardened; Full Finish; Milled Jaws.

Nos.	F675B	F677B	F679	F681B	F683B
Openings, In.	⅜-⅞	½-⅝	⅝-1	¾-1	⅞-1
Length, Inches	6¼	7⅛	8¼	10¼	13⅜
Thickness, Inch	⅞	¼	⅝	⅝	⅞
Weight per Doz., lbs.	5	6	9	13	17
Each	$0.18	.22	.28	.38	.46	.60

Half Dozen in a Box

IN SETS

Five Wrenches; One Each F675B, F677B, F679, F681B and F683B

No. DFE35—In Box; Weight per Set about 3¼ lbs. $4 00

No. DEFR35—In Canvas Roll; Weight per Set about 3¼ lbs. 4 20

STANDARD

22½°Angle; Double Head; Drop Forged, Case Hardened; Nickel Finish Milled Jaws

Nos.	X675B	X677B	X679	X681B	X683B
Openings, Inch	⅜-⅞	½-⅝	⅝-1	¾-1	⅞-1
Length, Inches	6¼	7⅛	8¼	10¼	13⅜
Thickness, Inch	⅞	¼	⅝	⅝	⅞
Weight per Doz., lbs.	5	6	9	13	17
Each	$0.18	.22	.28	.38	.46	.60

Half Dozen in a Box

IN SETS

Five Wrenches; One Each X675B, X677B, X679, X681B, X683B.

Per Set

No D105—In Box; Weight per Set about 3 lbs.... $2 00
No DR105—In Canvas Roll; Weight per Set about 3 lbs. 2.20

WRENCHES

CAR

22½° Angle Double Head, Drop Forged Steel, Natural Finish.

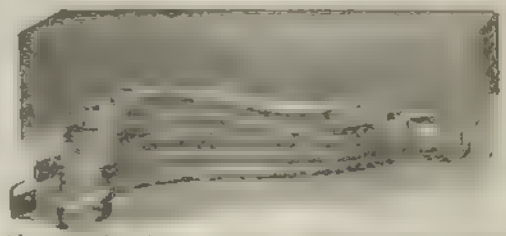
Nos.	367	370	371	372	373	375
Openings, inches...	⅜-⅞	½-⅝	⅝-1	¾-1	1-1⅛	1⅛-1¼
Length, inches	12	14	16	18	21	24
Thickness Heads, in.	7/16	½	⅝	¾	⅞	1-1/16
Fits Nuts, Bolt Size	⅜	½	⅝	¾	⅞	1
Weight per Doz., lbs	11	14	18	24	34	54
Each	$0.55	.66	1 20	1 40	1 40	1 70

Nos.	376	377	387	383	385	389
Openings, inches	½-¾	⅝-⅞	⅞-1⅛	1-1¼	1¼-1½	1½-1¾
Length, inches	15	17	20	24	27	30
Thickness of Head at Fitting Point	1-5/16	1-7/16	1-9/16	1-13/16	2-1/16	2-5/16
Size, in.	¾-⅞	⅞-1	1-1⅛	1¼-1½	1½-1¾	1¾-2
Weight per Doz. lbs.	59	68	80	112	144	176
Each	$1 35	1 65	2 05	2 75	3 75	4 75
	1 70	2 00	2 00	2 70	2 70	4 10

Double

GENERAL PURPOSE

For Household, Farm and Automobile Use



BONNEY

Double Head, 22½° Angle; Malleable Iron

In Sets Only

Sets contain Five Wrenches as follows:

Packed in Cardboard Box, 9¾x6¾x1¾ Inches, or in Canvas Roll, Weight per Set

	Per Set
No. MGP Cardboard Box.	$1 10
No. MGPR In Canvas Roll	1 30

MALLEABLE MACHINERY WRENCHES

Double Head 15°

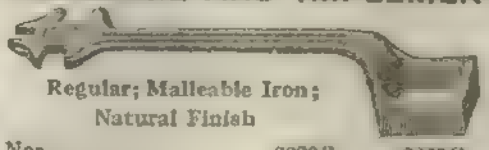
Made of Best Grade Malleable Iron, Case Hardened and Finished Bright. Recommended for those customers who prefer a 15° Angle Wrench to a 22½° Angle Wrench.

Sets Contain Six Wrenches as Follows:

Size Openings, in.	⅜x7/16	½x9/16	⅝x11/16	¾x13/16	⅞x1	1 x1¼
Length, Inches	3	3½	4	4½	5	6

No. MM Cardboard Box; Weight per Set about 3 lbs.	$1 10
No. MMR In Canvas Roll; Weight per Set about 3 lbs.	1 40

CARRIAGE AND IMPLEMENT WRENCHES



Regular; Malleable Iron; Natural Finish

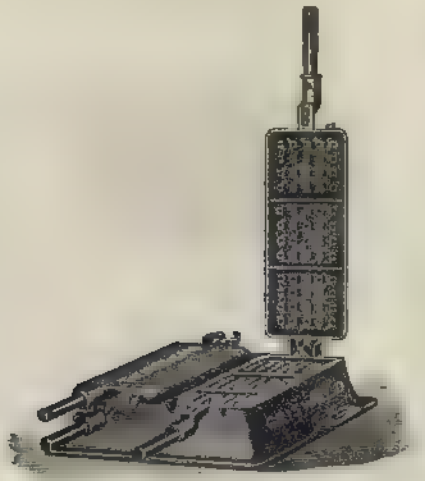
For Carriage Axle and Cap Nuts with ¾ ⅝ and ¾ inch Openings in One End for Cap Nuts.

Nos.	2320B	2320C	2320D	2320E
Length, Inches	6	9½	9	11
Axle Nuts Size, Inches	¾	1	1	1¼
Openings, Inches	¾, ⅝, ¾	¾, ⅝, ¾	¾, ⅝, ¾	¾, ⅝, ¾
Weight per Dozen, lbs..	7	8	8	9
Per lb., all Sizes				$0.32

Loose

EXTRA FINISH HIGH GRADE HOLLOW WARE

WAFFLE IRONS



Twin square, with handles. Size of frame 11x12 inches.

No. 12—Size of pan 9⅛x4 in. Per dozen, $33.00

Packed as Ordered

Regular style.

Diameter of pan 7¾ in., bottom ring 9⅞ in.

No 8 . . . . . Per dozen, $16.00

Packed as Ordered

Deep ring.

No. 8D—Diameter of pan 7¾ in.

Per dozen . $19.00

Packed as Ordered

Square pattern, with bail.

No. 11—Size of pan 6¾x6¾ inches.

Per dozen . $19.00

Packed as Ordered.

GEM PANS

Plain, smooth castings, shallow

No. 1—8½x12½ inches. . . . . Per dozen, $4.60

Packed as Ordered

Plain, smooth castings, deep pattern

No. 11—7½x11½x1¾ inches. . Per dozen, $5.80

Packed as Ordered.

Plain, smooth castings. Cake 3x1¾x¾ in.

No. 5—7x12½x1⅛ inches. . . . . Per dozen, $4.60

Packed as Ordered

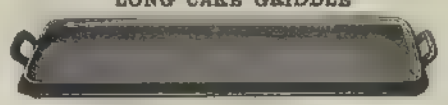
DEEP LONG PAN OR SAD IRON HEATER

Plain.

Nos.	8	9
Dimensions, in.	7¼x17¼	8¼x19¼
Each	$0.80	1.00

Packed as Ordered.

LONG CAKE GRIDDLE

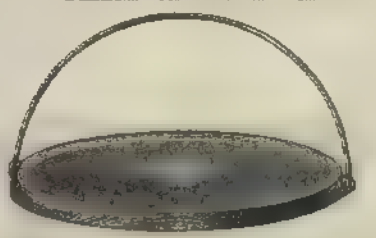


Raised bottoms, plain

Nos.	8	9
Dimensions, in.	8⅞x19⅜	10⅛x21½
Each	$0.82	1.04

Packed as Ordered

BAILED CAKE GRIDDLE



Heavy steel bails, raised bottoms, polished inside.

Nos.	12	14	16
Diameter top, in.	12	14	16
Each	$0.70	.90	1.10

Packed as Ordered

IRON HANDLE CAKE GRIDDLE

Raised bottom, polished inside

Nos.	7	8	9	10
Diameter, inches	8⅝	9¾	10¾	12
Each	$0.36	.40	.48	.62

Packed as Ordered

WOOD HANDLE CAKE GRIDDLE

Raised bottom, polished inside

Nos.	8	9	10
Diameter, inches	9¼	10⅜	11⅞
Each	$0.55	.63	.77

Packed as Ordered

GAS OR VAPOR STOVE GRIDDLE

This polished iron griddle is equipped with a hollow base, which prevents the extreme heat of a gas or vapor stove from overheating the center and distributes the heat evenly under the griddle

No. 12—Diam 12 in. . . . . Each, $1.50

Packed as Ordered

IRON HANDLE REGULAR SPIDER

Polished inside

Nos.	6	7	8
Diameter of bottom, in.	7½	8¼	8⅞
Each	$0.43	.46	.50

Nos.	9	10	11	12
Diam of bottom, in.	9¾	10⅝	10⅞	11¾
Each	$0.58	.74	.92	1.10

Packed as Ordered

SPECIAL SPIDER

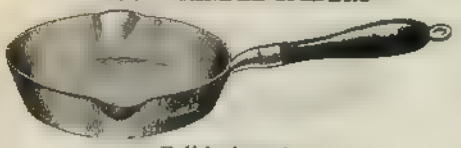
Polished inside

No. 3—Diameter 6 in. . . . . Each, $0.52

Packed as Ordered

EXTRA FINISH HIGH GRADE HOLLOW WARE

WOOD HANDLE SPIDERS



Polished inside

Nos.	7	8	9	10
Diameter, inches	9⅝	10¾	11¼	11¾
Each	$0.61	.65	.73	.89

Packed as Ordered

DUTCH OVEN

Heavy steel bail, polished inside

Nos.	8	9	10
Quarts	5	6	8
Each	$1.50	1.70	2.00

Packed as Ordered

SCOTCH BOWLS

Polished inside

Nos.	2	3	4	5
Quarts	3	4	5	6
Each	$0 70	.82	.92	1.00

Packed as Ordered

YANKEE BOWLS

Polished inside

Nos.	2	3	4	5
Quarts	4	6	7	9
Each	$0 88	98	1.10	1.25

Packed as Ordered

REGULAR KETTLES

Polished inside

Nos.	5	7	8	9
Quarts	4	6	8	10
Each	$1.00	1.10	1.25	1.55

Packed as Ordered

FLAT BOTTOM KETTLES

Polished inside

Nos.	7	8	9
Quarts	6	7	9
Each	$1 10	1.25	1.55

Packed as Ordered

MASLIN SHAPED KETTLE

Polished inside

Nos.	4	6	8	12
Inches	9 x 5	10 x 5⅝	11½ x 6½	12⅝ x 7⅛
Each	$0.95	1.05	1.30	1.60

Packed as Ordered

OVAL ROASTER

Plain smooth casting

No. 3	12¼x7⅞x3⅜ in.	Each $1 60
No 5	13⅞x9⅛x4¼ in.	Each, 1 95
No. 7	15¾x10¾x4⅝ in	Each 2.35

Packed as Ordered

HAM BOILER

Plain smooth casting, flat bottom

No. 8—Size 22x12x8½ in. Each, $2.25

Packed as Ordered

COMMON HOLLOW WARE

BAILED CAKE GRIDDLES

Ground

Nos.	10	12	14	16
Diameter, in	10	12	14	16
Each	$0 40	50	65	.80

Packed as Ordered

HANDLED CAKE GRIDDLE

Ground

Nos.	7	8	9	10
Diameter, in.	9	10	11	12
Each	$0 25	.27	30	.40

Packed as Ordered

SPIDERS

Ground

Nos.	7	8	9
Diameter bottom, in	8⅛	8⅛	9¾
Each	$0 30	35	.40
Nos.	10		12
Diameter bottom, in	10¼		12
Each	$0 50		.70

Packed as Ordered

YANKEE BOWLS

Ground

Nos.	2	3	4	5
Quarts	4	6	7	9
Each	$0 45	.55	65	.75

Packed as Ordered

SCOTCH BOWLS

Ground

Nos.	2	3	4	5	6
Quarts	3	4	5	6	7
Each	$0 40	45	.50	.60	.70

Packed as Ordered

HARNESS ROSETTE ASSORTMENTS

NOTE—We Do Not Break Assortments

Heavy Bulls Eye Shape; Colored Glass Fronts; Brass Backs with Brass Wire Square Loops.

Per Assortment

No. C—Contains Six Pair, Rights and Lefts $2 70

Assorted as follows.

One Pair 1½ inch, [illegible] Loop; Red Background with Running Horse.

One Pair 1½ inch; [illegible]ch Loop; Red Background with Horse Head.

One Pair 1¾ inch; 1¼ inch Loop; Green Background with Rose and Leaves.

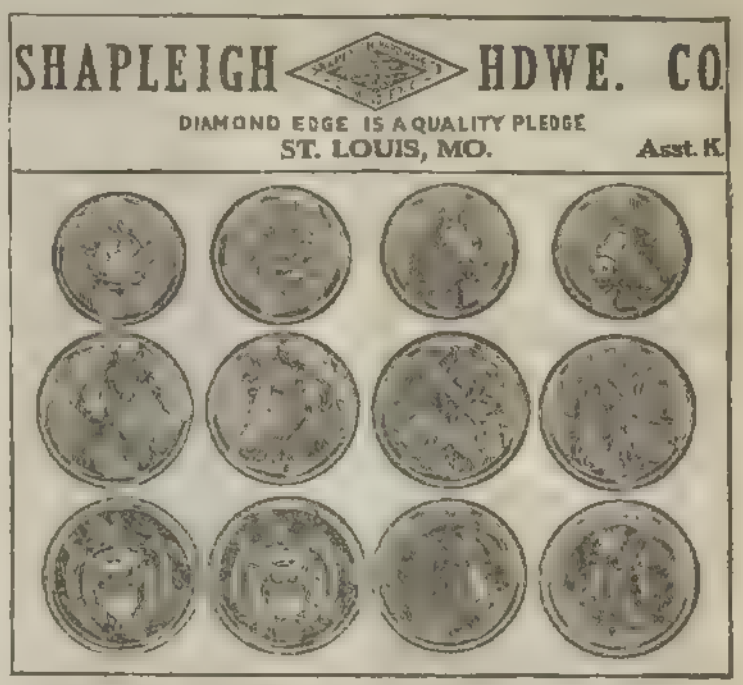
One Pair 1¾ inch, 1⅛ inch Loop; Blue Background with Chrysanthemum and Leaves

One [illegible] 1¼ inch Loop; Red Background with Horse Head

One Pair [illegible] inch Loop; Red Background with Three Horses Head

All Figures in Natural Colors

One Assortment on a Card; Weight 1 lb.



Heavy Flat Glass; Clear Fronts; Tin Backs with Iron Wire; Square Loops.

Per Assortment

No. K—Contains Six Pair, Rights and Lefts $1 90

Assorted as follows:

One Pair 1½ inch; [illegible] inch Loop; Silver Background with Rose and Leaves

One Pair 1¼ inch, [illegible] inch Loop; Gold Background with Horse Head

One Pair 1¾ inch; 1⅛ inch Loop; Gilt Pebble Background with Horse Head.

One Pair 1¾ inch, 1⅛ inch Loop; Plain Gilt Background with Roses [illegible]

One [illegible] 1⅛ inch Loop; Black Background with Saddle [illegible]

One [illegible]; 1⅛ inch Loop; Silver Frosted Background with Dog Head

All Figures in Natural Colors

One Assortment on a Card; Weight 14 ozs.

METAL ROSETTES

With Flat Back and Riveted Loop

No. 278B—Solid Brass

Diameter, Inches	1¾	2
Weight per Gross	7¾	11
Quantity in a Box, Gross	½	¼
Per Gross	$12 50	16 50

No. 273B—Solid Brass; Same as No. 278, except Plain Face.

Diameter, Inches	1½	1¾	2
Weight per Gross	[illegible]	[illegible]	[illegible]
Quantity in a Box, Gross	[illegible]	[illegible]	[illegible]
Per Gross	$10 00	12 50	16 50

With Wire Back

No. 269X—XC Plate Finish

Diameter, Inches	1½	1¾
Weight per Gross	3	3¾
Quantity in a Box, Gross	½	½
Per Gross	$4 00	5 00

No. 269R—Hard Rubber Finish

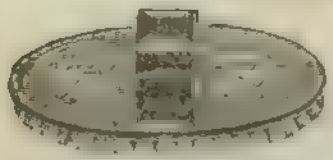
Diameter, Inches	1½	1¾
Weight per Gross	3½	4½
Quantity in a Box, Gross	½	¼
Per Gross	$4 00	5 00

With Malleable Back

No. 284B Solid Brass

Diameter, Inches	1¾
Weight per Gross	[illegible]
Quantity in a Box, Gross	½
Per Gross	$15 00

HORSE BRUSHES



Oval Shape; Imitation Leather Back; Leather Hand Strap; Size ¾x4⅜ inches;

Per Dozen

No. 501—¾ inch Stock; Black Tampico Center, White Tampico Outer Casing; Weight per Dozen 6¼ lbs. **$5.20**

No. 501½— ¾ inch Stock, Gray Tampico Center, White Tampico Outer Casing; Weight per Dozen 6¼ lbs. 6 00
Half Dozen in a Box.

Oval Shape; Imitation Leather Back; Black Patent Leather Hand Strap; Small Size ⅞ inch long Gray Tampico Stock.

Per Dozen

No. 500—Size 8½x1¼ inches; Weight per Dozen 6 lbs. **$4.50**
Half Dozen in a Box.

OX FIBER

Oval Shape; Solid Block with Leather Strap.

Per Dozen

BUSY BEE

No. OX12—Size of Face 8½x4 inches; Weight per Dozen 8 lbs... **$5.00**
One Dozen in a Box

SHOO FLY Per Dozen

No. OX11—Size of Face 9½x4 inches; Weight per Dozen 10 lbs. **$6 00**
One Dozen in a Box.

Oval Shape; Size 8¼x4 inches, Hardwood Block; Black Leather Hand Strap.

Per Dozen

No. 1104—1½ inch **Palmyra** Stock; Weight per Dozen 11¼ lbs.. **$3.70**
No. 1106—1¼ inch **Rice Root** Stock; Weight Dozen 10½ lbs... **7.50**
Half Dozen in a Box.

Oval Shape; Hardwood Block; Fancy Label; Black Patent Leather Hand Strap; Extra Size; White Tampico Center; Gray Tampico Outer Casing.

Per Dozen

No. 1101—Size 9⅛x4½ Inches; Weight per Dozen 8½ lbs..... **$4 50**
One Dozen in a Package.

RATTLER

Oval Shape; Solid Hardwood Block; Black Leather Hand Strap; 1¼ inch Palmetto Fiber.

Per Dozen

No. 1108—Size 8¾x3½ inches; Weight per Dozen 9¼ lbs.....**$5.00**
One Dozen in a Box

Oval Shape; Plain Hardwood Block; Black Patent Leather Hand Strap; 1 inch White Tampico Stock.

Per Dozen

No. 1100—Size 9x3¼ inches; Weight per Dozen 7½ lbs..... **$2.70**
One Dozen in a Package.

HORSE BRUSHES

Oval Shape; Solid Hardwood Block; Black Leather Hand Strap 1¼ inch Palmyra Fiber Stock.

Per Dozen

No. 1102 Size of Face 9x3½ inches; Weight per Dozen 7½ lbs. **$3 00**
One Dozen in a Package.

HONEY BEE

Oval Shape; Plain Hardwood Block Black Leather Hand Strap; 1¼ inch Fine Palmetto Fiber.

Per Dozen

No. 303—Size 8⅝x3¼ Inches; Weight per Dozen 9¼ lbs..... **$5 00**
One Dozen in a Box.

SHOE FLY

Oval Shape; Plain Hardwood Block; Black Leather Hand Strap; 1¼ inch Fine Palmetto Fiber.

Per Dozen

No. 302—Size 8⅝x3¼ inches; Weight per Dozen 9¼ lbs..... **$5.00**
One Dozen in a Box.

Oval Shape; Solid Hardwood Back; Black Leather Hand Strap; 1 inch Palmetto Fiber Stock.

Per Dozen

No. 300—Size 8⅝x3⅛ inches; Weight per Dozen 7 lbs..... **$4.00**
One Dozen in a Box.

SCRATCHERS

Oval Shape; Solid Hardwood Back Black Patent Leather Hand Strap; 1¼ inch Heavy Palmetto Fiber.

Per Dozen

No. 301—Size 8⅝x3⅛ inches; Weight per Dozen 7 lbs..... **$3 50**
Half Dozen in a Box.

ANCHOR

Oblong Shape; Ox Fibre Palmetto; Solid Hardwood Block with wide Leather Strap; Block is Wax Finished and Waterproof.

Per Dozen

No OX14 Size of Face 9x4 inches; Weight per Dozen 7 lbs. **$5.00**
One Dozen in a Box

Oblong Shape; Size 7x2⅝ inches; **Varnished Hardwood Block;** Black Patent Leather Hand Strap.

Per Dozen

No. 1150—1¼ inch Fine Palmetto Fiber; Weight per Dozen 6¼ lbs... **$3.70**
No. 1154—1¼ inch Palmyra Fiber; Weight per Dozen 7 lbs. ...
One Dozen in a Box.

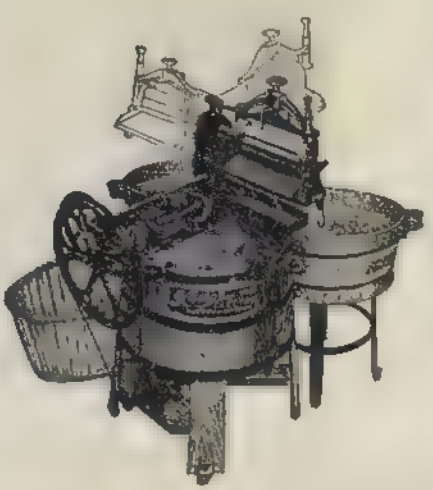
Oblong Shape; Varnished Hardwood Block; Black Patent Leather Hand Strap; 1¼ inch Rice Root Stock.

Per Dozen

No. 1157—Size 7x2⅝ inches; Weight per Dozen 7 lbs. **$3.70**
One Dozen in a Package.

HORTON WASHING MACHINES

ELECTRIC



Has machine cut gears throughout, all exposed gears are covered, self-locking lid, tub made of high-grade cypress, attractively finished and fully corrugated on inside. Has a ball bearing steel frame wringer attached, guaranteed for five years, with a reversible water board and a convenient lever to swing same, enabling wringing of clothes between tubs and basket. Safety trigger separates wringer rolls instantly, a lever starts stops or reverses same. Attachment for hand operation when necessary

110 Volts, 60 Cycles

No. 32—Direct Current.....Each $100 00

No. 32—Alternating Current.....Each 100 00

One in a Crate

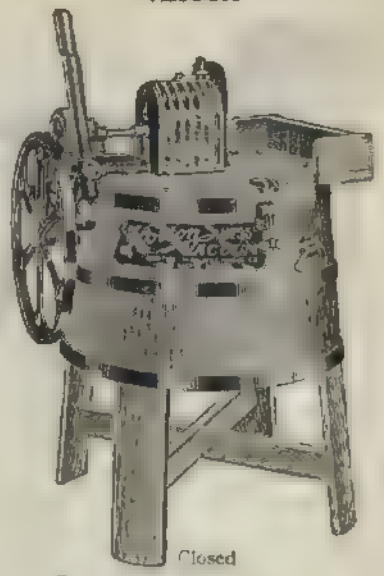
POWER

Same general construction as No. 32 Washer, only equipped with a pulley for gasoline or steam engine power

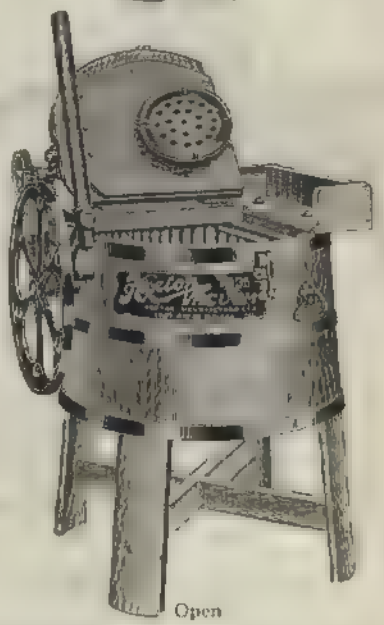
No. 31.....Each $52 80

One in a Crate

VACUUM



Closed



Open

The plunger, or agitator, does 50% more work with the same effort than on other machines, because it makes 2½ strokes to each stroke of the operating lever. This high speed, without more power, is made possible by the frictionless machine-cut gears and the perfectly balanced mechanism. The high speed of the plunger, with its many perforations or air valves, causes so much agitation that the clothes are thoroughly cleaned in less time than by any other vacuum type machine. It can be operated with power of any kind, by simply exchanging the large fly-wheel for an 8 in. flat belt wheel. This valuable feature is possible because of the mechanism being disconnected when the lid is opened, and this also eliminates the need of tight and loose pulleys. The operating lever can be used in either one or two positions, to suit the convenience of the operator. Cypress tub, fully corrugated on the inside finished in natural wood, fly-wheel and hoops green enamel, balance of mechanism in gold bronze. Plunger heavily galvanized. All gears are covered

No. 36 Vacuum.....Each $20 10

One in a Crate

Extra Pulleys for Power.....Each $2 25

PEERLESS WATER MOTOR

A motor which is a new departure in water motor construction. Instead of having poppet valves like other motors, it has an automatic sliding valve which is not dependent on springs to operate. This does away with all spring and valve trouble.

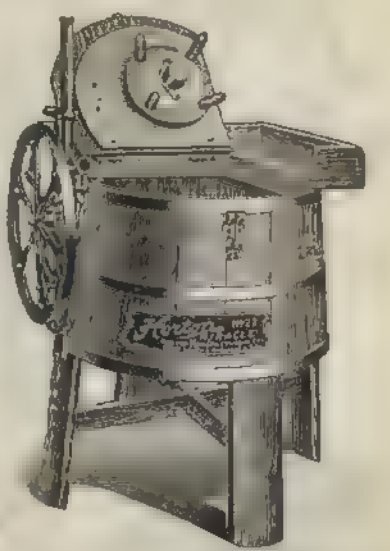
It will operate nicely on as low as twenty pounds water pressure. It is equipped with high grade wire wound hose

The tub is the stave leg type finish in natural wood. Motor, hoops and trimmings in green and red.

No. 30—Peerless . . . .Each $26 50

One in a Crate

MIRACLE



The tub is (extra large) and is made from Louisiana cypress thoroughly seasoned, fully corrugated on the inside. The fly wheel and hoops are green enameled, the balance of the mechanism is gold bronzed, the tub has three coats of coach varnish.

The fly wheel can be removed easily and a belt pully attached, making it a power machine. The operating lever can be placed in either one of two positions, convenient for a short or tall person. The dolly post is guarded by a galvanized cup, eliminating all possibility of tearing clothes

No. 23 Miracle.....Each $19 00

One in a Crate

Extra Pulleys for power .....Each $2 25

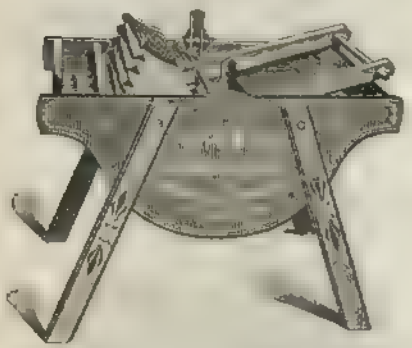
WASHING MACHINES

AMERICAN

Lever motion, tub made of the best grade of Louisiana cypress, 22 inches in diameter at top, 25 inches at bottom, 14 inches deep, finished in natural wood. The post connecting dasher with gearing is made of iron. All metal parts galvanized.

No. 4, American . . . . . Each $7.30
One in a Crate

SUPERIOR



Made of kiln dried Arkansas cottonwood and will not warp, split or decay. It has a removable bottom rubber, which gives an opportunity for thorough cleansing.

No. 15—Superior. . . . . . Each $5.30
One in a Crate

ADVANCE

Ear Movement

Select dry lumber, cast ears. Length 28 inches, depth 14 inches, width 19 inches height 25 inches, inside measure.

Removable Bottom

No. 2 —Red finish. . . . . Per dozen $60.00
Twelfth Dozen in a Crate

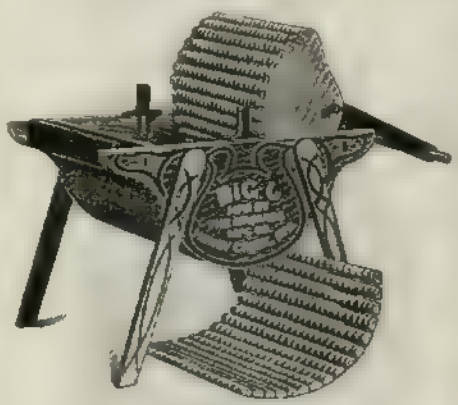
ADVANCE

Ball Movement

Same size and construction as No. 2, only with ball movement which makes it easy to lift rubber out of machine

Removable Bottom

No. 3 —Red finish. . . . . Per dozen $60.00
Twelfth Dozen in a Crate



Ear Movement

This machine is extra large, having the following inside measurements: length 28½ inches, depth 14 inches, width 22 inches height 25 inches.

Removable Bottom

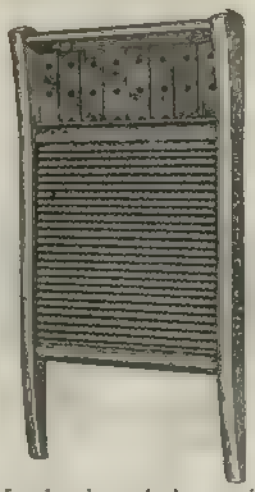
No. 6 —Red finish. . . . . Per dozen $70.00
Twelfth Dozen in a Crate

SUCTION WASHERS

Made of extra heavy tin, handles 40 inches long. Washes heavy pieces, such as rugs, comforters, blankets, etc. Delicate pieces may also be washed without injury. Saves the hands, prevents wear on clothes, and requires but little soap.

Rapid—With handle. . . . . Per dozen $15.00
One Dozen in a Case

WASH BOARDS



Large family size, single special metal washing surface 10⅞ x 11½ in. Globe crimp soap draining metal head, so constructed that the soap drainings return to the washing surface of the board. Size over all 12⅛ x 24⅝ inches.

Our Special

No. 167 . . . . . Per dozen $10.00

Large family size, single zinc surface, globe crimp, ventilated back. Has soap draining metal head. 12½x24½ inches over all, washing surface 10⅞ x 11½ inches

Our Best

No. 172 . . . . . Per dozen $12.30

Large family size, single blue enamel washing surface 10⅝x12¼ in. Angle crimp; top notch drain board, which affords quick drainage; ventilated back; size over all 12½ x 24¼ inches.

The Enamel King

No. 870. . . . . Per dozen $12.00
Half Dozen in a Crate

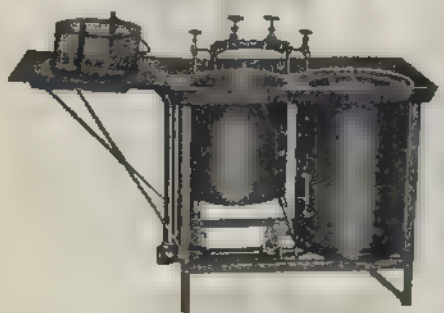
HOTEL WARE

KNIFE CLEANER

This is an improved machine, made to stand any amount of hard usage. It is suitable for hotels, clubs, restaurants and general family use.

Nos.	8	7	5
Number of knives	4	5	6
Each	$41.00	57 00	83 00

DISH WASHERS



The Blakeslee No. 3 Power Dish Washer is just right for medium-sized places. It weighs 700 pounds, and occupies a floor space of but 30x40 inches. Will stand perfectly the wear and tear incident to hard and steady usage. The capacity is about 3,000 dishes per hour, and it is operated by a one-half horse-power motor. Gas used for heating the water in the tanks.

No. 3 ..... Each $250.00

REVOLVING COUNTER STOOLS

No. 510 No. 520

Pedestal japanned, solid hardwood tops 1⅛ inch thick, nicely turned and dished, 12 inches in diameter, finely finished in oak or mahogany or in any special finish desired.

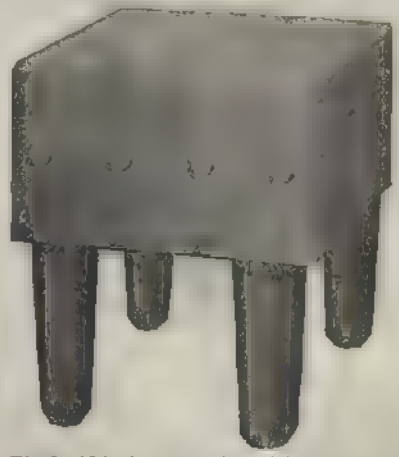
No. 510—Inches	18	20	22
Per dozen	$15.00	15 25	15.50
No. 510—Inches	**24**	**26**	**28**	**30**
Per dozen	$15.75	16.00	16.25	16 50

Pedestal japanned, nickel or oxidized steel ring around solid hardwood seat, finished in oak or mahogany or in any special finish desired. Diameter of seat 12 inches.

No. 520—Inches	18	20	22
Per dozen	$19 00	19.25	19.50
No. 520—Inches	**24**	**26**	**28**	**30**
Per dozen	$19.75	20 00	20.25	20.50

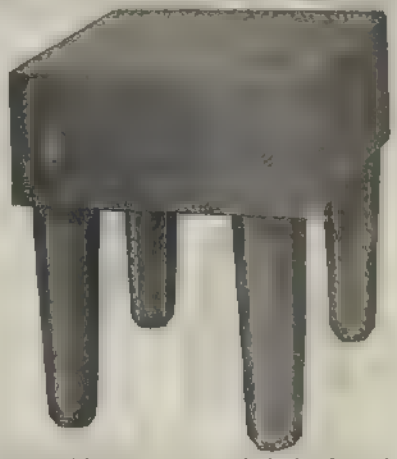
MEAT BLOCKS

Made of the best selected Michigan rock maple lumber, the cream of the log, for the cutting or chopping surface. It is put together with wood welded joints and absolutely free from soft spots. The block is locked together with heavy iron bolts concealed by rosettes. Machine polished and varnished.



Blocks 16 inches deep, legs 18 inches long, 34 inches from floor to surface, 4 bolts.

No. 16—Size, in	20x24	24x24	24x30	30x30
Each	$15 25	17 95	21.80	26 50
No. 16—Size, in	**30x35**	**30x40**	**35x35**	**35x40**
Each	$30 66	34 77	35 45	40 14



Blocks 10 inches deep, legs 21 inches long, 31 inches from floor to surface, 3 bolts.

No. 10—Size, in	20x24	24x24	24x30	30x30
Each	$13.54	14.83	17.15	20 21
No. 10—Size, in				**30x35**
Each				$23.12

BUTLER'S TRAYS AND STANDS

Each

Butler's Trays—Golden oak, brass corners, nicely finished, size 17x29 in.... $5.10

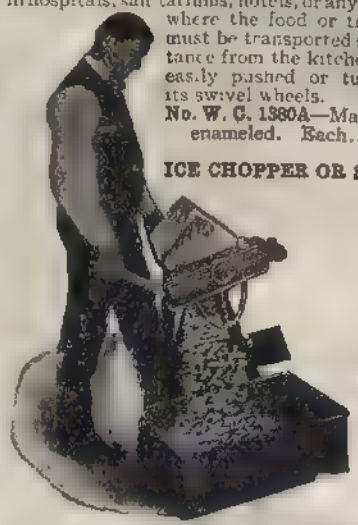
Butler's Stands—Golden oak, strong and nicely finished. Height, 29 in..... 2.00

FOOD WAGONS

This wagonette is equipped with 8 inch solid rubber, clinched-on, tired wheels. It has a push handle at each end and is supplied with two metal reinforced wood carrying trays, which slide on tracks. The trays are 30½ inches long, 18⅝ inches wide and 4 inches deep and have handholds on each end. The entire stand to the top of the upper tray is 39 inches high. This wagonette is exceedingly popular in hospitals, sanitariums, hotels, or any building where the food or the dishes must be transported some distance from the kitchens. It is easily pushed or turned on its swivel wheels.

No. W. C. 1380A—Maroon enameled. Each... $67.20

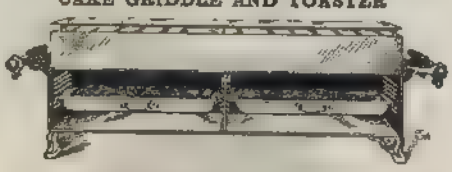
ICE CHOPPER OR SHAVER



Materials and workmanship the best, knives of best tool steel, wearing parts heavily galvanized. Galvanized iron tank furnished. Does its work clean and nothing scatters around. Instantly adjusted for cutting ice coarse or fine. Chops 100 pounds in a few moments. Weighs 75 pounds, takes little space, and anybody can handle it.

Gem ..... Each $38.00

CAKE GRIDDLE AND TOASTER

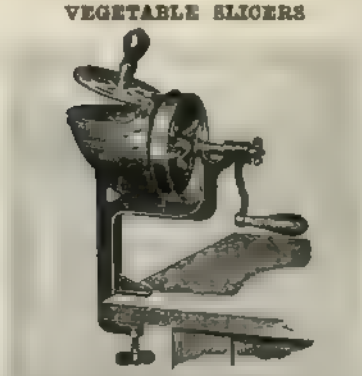


The top baking surface is made of very heavy steel plates carefully polished. The toasting racks are of extra heavy standard wire, so made as to rest in the top of the sheet iron drip pans. A very economical stove, as the waste heat from the toasting compartment is utilized for baking griddle cakes. Either kind of gas.

Nos.	Top Surface	Extreme Length	Toasting Racks	Size	Each
1	24x18¾ in.	29 in.	1	23x18 in.	$31 25
2	36x18¾ in.	44 in.	2	17x18 in.	45.00

HOTEL WARE

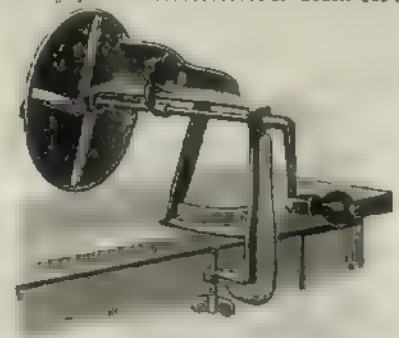
VEGETABLE SLICERS



Knives of best quality cutlery steel, can be adjusted to cut thin or coarse by turning thumb nut at the end of the shaft. Hopper has hinged edge, which, when forced against the vegetables, holds them firmly against the knives until they have been sliced.

Universal

No. 1—Japanned .....Per dozen $39.50



Japanned. For slicing Saratoga potatoes and citron. Blades ground sharp, and cut slices of uniform size.

Lightning.....Per dozen $18.00

FRENCH FRY POTATO CUTTERS

Japanned, with table clamp. Easy to operate. Cuts all slices of uniform size

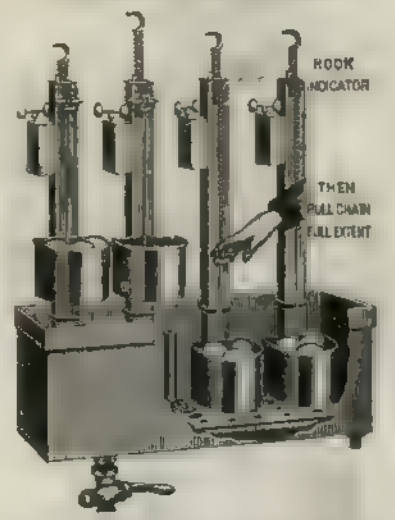
No. 722 .....Each $0.50

BUTTER CUTTERS

Made of brass polished and nickel plated. Cutting wires of best silver steel piano wire. Simple in construction, compact, durable, sanitary and easily cleaned.

Nos.	4	5	6
Cuts pieces to pound....	24	40	44
Each	$13.50	13.50	13.50

AUTOMATIC EGG BOILERS



Made of tinned copper nickeled, hemmed with band iron with screw holes to attach to range table. Automatic, self replenishing steam boiler. Always keeps the proper depth of water to cover buckets. Tank is open and easy to clean

No. Buckets	2	3	4	5	6
Size, in.	6x10	6x15	6x20	6x25	6x29
Each	$86.00	120.00	154.00	188.00	220.00

BREAD CRUMBERS

Has many crumbing fingers which tear the bread into light and flaky crumbs. Can be screwed to a table and is furnished with a pan to catch the crumbs as they drop through a screen. The hopper is 6¼ x 7¼ inches. Height 12 inches, takes up 10 in. square floor space.

No. 20 ..... Each $39.50

PLUNGER POTATO MASHER

Heavy steel frame, wood plunger. Can be screwed to table

Inches	6	7	8	9
Each	$12.00	14.00	16.00	17.00

POWER POTATO PEELER

Complete with motor, motor stand, and guard. Speed 500 revolutions per minute. Capacity 2 pecks every ¾ minute.

Streeter—Size 20 in.....Each $375.00

NOTE—In ordering give voltage, and state if Alternating or Direct Current.

POTATO MASHER AND CREAMER

Hand power, has a capacity of nine quarts. May be screwed to table. Easily cleaned. The action of the beaters whips air into the potatoes, making them light and fluffy, as well as increasing their bulk. May also be used as a cream whipper

Rapid

No. 2.....Each $50.00

KNIFE CLEANERS

Japanned body, clamp for attaching to table. Will keep steel blades bright with little effort.

Universal ..... Each $3.30

Scales

Railroad Track Scales

Fig. 4—

The latest Extra Heavy Iron Frame Howe Track Scale contains every improvement known to modern science in the manufacture of heavy weighing machines. Capacity from 10 to 100 tons. Length of platform, 12 to 112 feet. Write for special catalogues and prices.

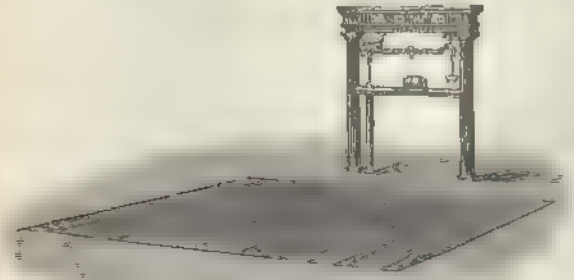


Fig. 470

Railroad Depot Scales

With Pillars and Cap

Beams graduated by . . pounds to 500 pounds for 4 tons capacity and under over 4 tons to 1000 pounds

Nos.	Capacity	Size of Platform	Length of Platform Between End	Price
.1[illegible]	6 tons	10 ft. x 9 ft.	1 ft. 10 in.	$280 00
1[illegible]	[illegible] tons	6 ft. x 4 ft.	3 ft. 0 in.	[illegible] 00
.20	4 tons	9 ft. x 7 ft.	2 ft. 10 in.	[illegible] 00
.	3 tons	8 ft. x 6 ft.	2 ft. 9 in.	[illegible] 00
.24	3 tons	8 ft. x 5 ft.	2 ft. 6 in.	[illegible] 00
22[illegible]	2 tons	6 ft. x 3 ft.	2 ft. 6 in.	75 00

Union or Family Scales

With Double Beam and Patent Frame

Platform, 10 x 14 inches

Beams graduated as follows. Front bar, upper row of figures, for round platform, ½ ounce to 5½ pounds, lower row of figures, for square platform, 4 ounces to 44 pounds.

Rear or tare bar, for round platform, ½ ounce to 5 pounds. Balance of capacity made up by weights.

No. 322. With tin scoop; capacity, ½ oz. to 240 lbs. each $15 00
No. 326. With brass scoop; capacity, ½ oz. to 240 lbs. each 16 00
No. 807. With tin funnel scoop; capacity, ½ oz. to 240 lbs. each 16 50
No. 808. With brass funnel scoop; capacity, ½ oz. to 240 lbs. . . . . each 17 50

Fig. 471

Scales

Portable Platform Scales

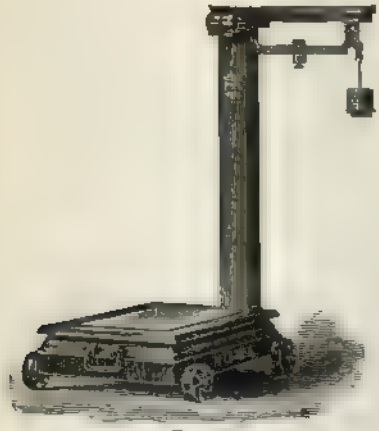


Fig. 467

With wheels

New Nos.	Old Nos.	Capacity Pounds	Platform Inches	Price
18	4	2500x½	26x34	$85 00
22	5	2000x½	23x32	75 00
24	6	1500x½	21x30	56 00
26	7	1200x½	19x28	48 00
28	8	1000x½	17x26	43 00
29	8½	800x¼	17x24	38 00
30	9	600x¼	16x24	33 00
32	10	400x¼	15x22	26 00

Nos 30 and 32 Scales furnished with beams graduated by decimals of a pound when so ordered.

Portable Drop Lever Scales

These scales have our patent drop lever which raises the platform entirely off from the working parts of the scale while it is being loaded This is done without moving the beam or any of the working parts of the scale

New Nos.	Old Nos.	Capacity Pounds	Platform Inches	Price
76	1	4000x½	32x40	$140 00
78	2	3500x½	32x40	130 00
79	4	2500x½	26x34	94 00
82	5	2000x½	23x32	82 00
84	6	1500x½	21x30	69 00
86	7	1200x½	19x28	56 00
88	8	1000x¼	17x26	50 00
85	8½	800x¼	17x24	45 00
87	9	600x¼	16x24	40 00
89	10	400x¼	15x22	34 00

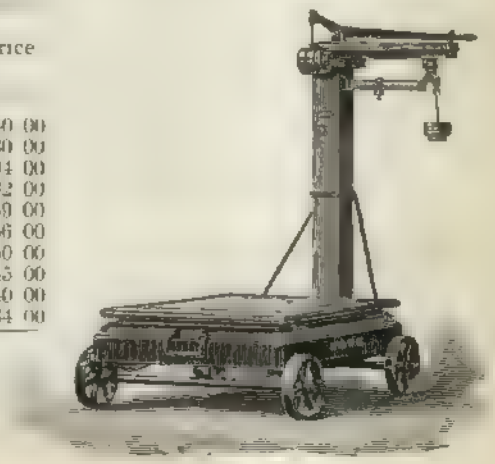
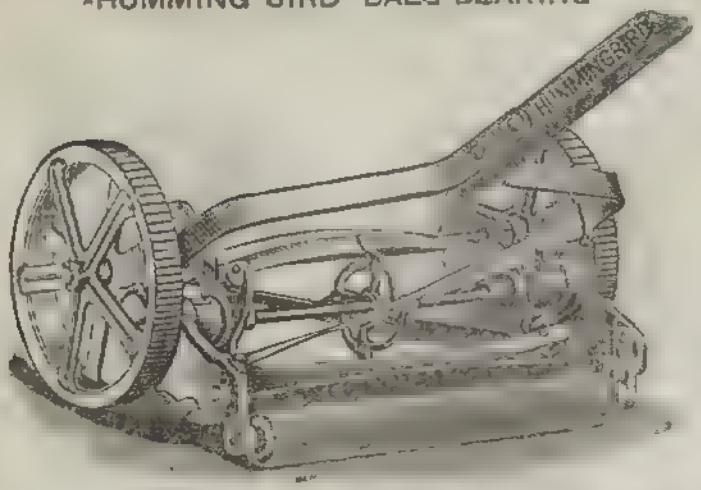
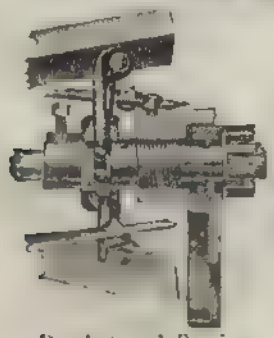


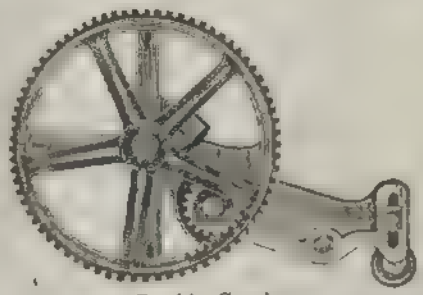
Fig. 468

LAWN MOWERS
*HUMMING BIRD—BALL BEARING





Ratchet and Bearing



Double Gearing

This Mower is the Latest Design of the new Open Type Construction. Very Light and Easy Running, yet Built with Refined Castings that are Thoroughly Strengthened. Wheels, Side Plates and Cutter Bar Castings of Good Quality of Gray Iron, Malleable Iron Reel Braces, Perfectly Fitted and Riveted to Reel Shaft, which makes it Impossible to Spring the Reel. Adjustable Malleable Iron Roller Brackets. The Shrub Bar and Reel Shaft are of the Best Cold Rolled Steel Shafting, and they will not vary .001 of an inch from Size. Steel Ball Bearing Cup or Race Securely Set in each head, with Tempered Cones Inserted in the Side Plates of the Machine. One of the Cones is made with Four Holes, into which a Wrench can be Fitted to take up any Lost Motion in the Reel Shaft. Double Geared both sides; Double Steel Sliding Pin Ratchet; Adjustable Hardwood Roller; Wrought Steel Handle Braces; 3½-foot Varnished Hardwood Handle, with Cross Bar set in Malleable Iron Bracket and Bolted.

*HUMMING BIRD—BALL BEARING

High Wheel; Four Blades

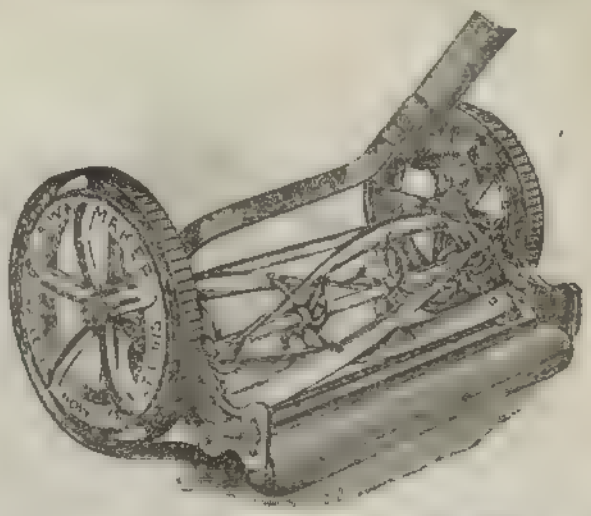
Handsomely Finished in Silver and Gold Bronze; Blue Trimmed.

Diameter of Wheels 9 inches. Diameter of Reel 5¼ inches; Width of Blades 11/16 inches; Reel Shaft ⅝ inch, Front Bar ⅝ inch.

Adjustable to Cut Grass to Lengths of ½ to 1¼ inches. Cuts Grass Standing 5 to 6 inches High.

Width of Cut, Inches.....	12	14	16	18
Extreme Width, Inches.....	18 11/16	20 11/16	22 11/16	24 11/16
Weight Boxed, Lbs.....	53	55	57	59
Each.....	$10.50	11 00	11.50	12.00

LAWN MOWERS
*LAWN MAKER—PLAIN BEARING



Ratchet and Bearing

Wheels, Side Plates and Cutter Bar Castings of Good Quality of Gray Iron. Malleable Iron Reel Braces Perfectly Fitted and Riveted to Reel Shaft, which Makes it Impossible to Spring the Reel. The Roller Bracket is Malleable Iron, Eliminating the Possibility of Breakage, and is Built with a Gudgeon Entering the Roller 2¼ Inches Instead of an Iron Pin Driven Into the Roller, Running in a Hole in the Bracket. This Does Away with the Roller Splitting, after it is Subjected to Weather conditions, and Runs Noiselessly.

The Shrub Rod and Reel Shaft are of Best Cold Rolled Steel Shafting, Each Being ⅝ inch in Diameter and are Guaranteed Not to Vary .001 of an Inch from Size. The Axle for the Wheels is Formed by the Shrub Rod Passing Through the Center of the Side Plates, Enabling the Wheels to Turn on Steel Bearings which Add to the Easy Running Qualities of this Machine.

Reel Bearings are Equipped with Brass Bushings and Lock Nut Set Screws for Taking up any Lost Motion. Geared on Each Side, the Pinions Having Deep Cut Teeth, which Engage Strongly and Firmly in the Gearing of the Wheel, Giving Long Life and Durability.

The Flat, Lipped Steel Pawls are Extra Large and Thoroughly Tempered to Prevent Wear or Breakage

Cutter Bar Adjustment—Most Screw Adjustments Have Two Screws Acting Against Each Other on Either Side of the Pivotal Point. With This Construction the Cutter Bar Bushes Are Sure to Be Sprung when a Close Adjustment is Attempted. To Obviate this Some Manufacturers Have One Screw Operate from the Top and the Other from the Bottom, with the Objection that the Mower Must be Turned Upside Down for Adjustment. Both Difficulties are Overcome by a New Patented Device which Permits Both Screws to be Operated from the Top and Against a Finger Extended from the Main Body of the Bar.

*LAWN MAKER—PLAIN BEARING

High Wheel; Four Blades

Aluminum Body; Gold Wheels, Trimmed in Dark Blue and Silver.

Diameter of Drive Wheels 10½ inches; Diameter of Reel 6 inches. Four Heavy Cutting Blades of High Grade Crucible Steel, Oil Tempered, Shear Cut and Self Hardening; Ground Under Running Water to Preserve the Temper. All Bearings Carefully Machined and Fitted.

Adjustable to Cut Grass to Lengths of 5-16 to 1½ Inches. Cuts Grass Standing 7 Inches High.

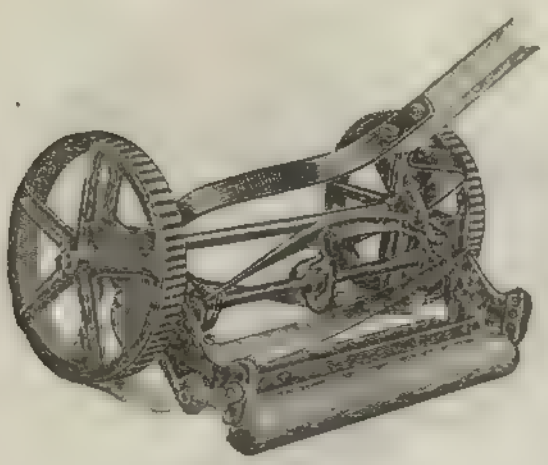
A Durable Handle and Roller of Hard Maple, Thoroughly Seasoned and Neatly Varnished.

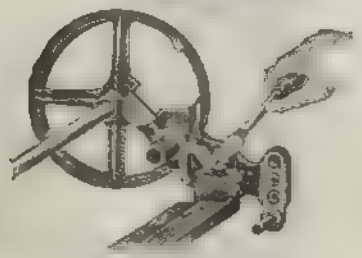
Width of Cut, Inches. . ..	14	16	18
Extreme Width, Inches.. . .	20 19-32	22 19-32	24 19-32
Weight Boxed, Lbs. ...	50	53	56
Each....	$11.00	12.00	13.00

One in a Box; Handles Half Dozen in a Bundle

Extra Parts for Lawn Mower, Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory.

LAWN MOWERS
*RED CLIPPER—PLAIN BEARING





Bed Plate Adjustment

This Mower is a Popular Design of the New Open Type Construction, very Light and Easy Running, Yet Built with Refined Castings That are Thoroughly Strengthened. Holes are Drilled Through the Center of the Side Plates, by Two Operations to Insure Exact Dimensions, Through which a Piece of Accurately Rolled Steel Shafting Passes, Forming a Shrub Guard and an Axle for the Drive Wheels, Enabling them to Turn on Steel Bearings. The Fit between the Shafting and Side plate Holes is so Perfect that there is Absolutely no Play and with a Set Screw Passing Through a Lug on Each Side Plate and Fastening into Recesses in the Shafting, Makes a Strong and Immovable Frame Construction. These Recesses in the Shafting are Accurately Placed, so that the Side plates will be at Right Angles with the Cutter Bar, Making a True "Four-squared" Frame. The Drive Wheels are Held in Place by a Malleable Lock Washer and Spring Cotter.

Adjustable Malleable Iron Roller Brackets. Reel Braces are of Malleable Iron Securely Riveted to the Cutting Blades and Steel Shaft, which Passes Entirely Through the Reel, Producing the Strongest and Most Rigid Reel that is Possible to Build. The Reel is Equipped with Adjustable Brass Bearings and Device for Taking Up all Wear.

Screw Adjustments Throughout. A Positive and Durable Ratchet Geared on Each Side. Good Quality of Materials and Workmanship. Fully Guaranteed. For Better Quality and Value for the Money is Offered in this Machine than in any other Lawn Mower Made.

*RED CLIPPER—PLAIN BEARING

High Wheel; Four Blades

Empire Red with Gold Bronze Wheels and Decorations.

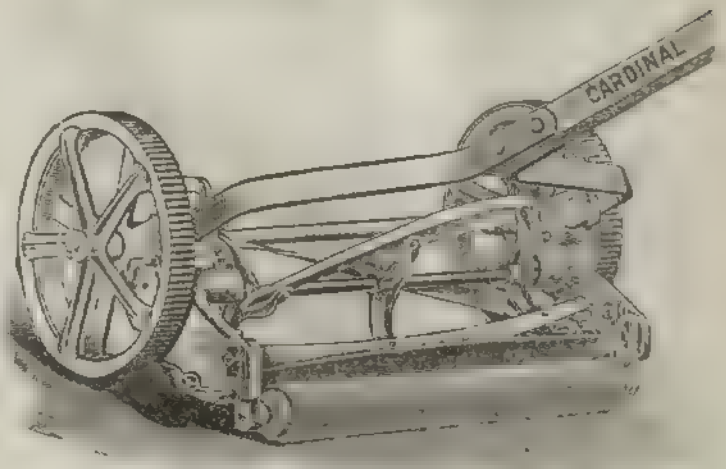
Diameter of Drive Wheels 9 inches; Diameter of Reel 5½ inches; Shrub Rod ⅝ inch; Reel Shaft 9-16 inches; Three Cutting Blades of Crucible Steel, Carefully Tempered, Water Ground and Self-sharpening.

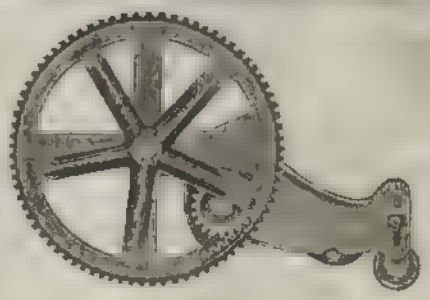
Adjustable to Cut Grass to Lengths of ¼ to 1¼ inches. Cuts Grass Standing 5 to 6 inches High.

A Varnished Handle and Roller of Hardwood Maple.

Width of Cut, Inches	12	14	16	18
Extreme Width, Inches	18 19-32	20 19-32	22 19-32	24 19-32
Weight Boxed, Lbs.	43	45	47	49
Each	$8.50	9.00	9.50	[illegible]

LAWN MOWERS
*CARDINAL—PLAIN BEARING





This Mower is Another Popular Design of the New Open Type Construction; Very Light and Easy Running; All Parts Accurately Machined so that they will Assemble without the Least Particle of Strain. Only Materials of First Quality are used. Wheels, Side Plates and Cutter Bar Castings of Good Quality Gray Cast Iron; Malleable Iron Reel Braces Perfectly Fitted and Riveted to Reel Shaft, which makes it Impossible to Spring the Reel. Holes are Drilled through the Center of the Side Plates, by two Operations, to Insure Exact Dimensions, through which a Piece of Accurately Rolled Steel Shafting Passes, Forming a Shrub Guard and an Axle for the Drive Wheels, Enabling them to Turn on Steel Bearings. The Fit between the Shafting and Side Plate Holes is so Perfect there is Absolutely no Play and a Set Screw Passing through a Lug on each Side Plate and Fastening into Recesses in the Shafting makes a Strong and Immovable Frame Construction. Drive Wheels Held in Place by Malleable Lock Washer and Spring Cotter. Adjustable Malleable Iron Roller Brackets; Double Geared Both Sides. Adjustable Hardwood Roller; 3½ Foot Varnished Hardwood Handle.

*CARDINAL—PLAIN BEARING

High Wheel; Three Blades

Handsomely Finished in Cardinal Red; Gold Bronze and Green Decorated.

Diameter of Wheels 9 inches; Diameter of Reel 5¾ inches; Width of Blades 1⅛ inch; Reel Shaft ⅝ inch; Front Bar ⅝ inch.

Adjustable to Cut Grass to Lengths of ¼ to 1¼ inches. Cuts Grass Standing 5 to 6 inches High.

Width of Cut, Inches	12	14	16	18
Extreme Width, Inches	18⅝	20⅝	22⅝	24⅝
Weight Boxed, lbs.	43	45	47	49
Each	$6.80	7.30	7.70	8.20

One in a Box; Handles Half Dozen in a Bundle

Extra Parts for Lawn Mowers Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

ICE CHISELS

Per Dozen

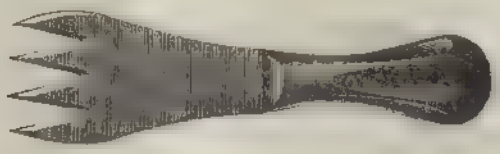
No. 101—5x2½ inch Stamped Steel, Tempered and Polished Blade with Knife Edge Cutting Points; Polished Hardwood Handle with Heavy Tinned Iron Cap 2 inches in Diameter; Steel Ferrule; Length Over All 10¼ inches; Weight per Dozen 9 lbs..... **$4.50**

Half Dozen in a Box

Per Dozen

No. 1000—4⅛x2⅜ inch Stamped Steel, Tempered and Polished Blade with Knife Edge Points; Polished Hardwood Handle; Steel Ferrule; Length Over All 10 inches; Weight per Dozen 5 lbs..... **$4.00**

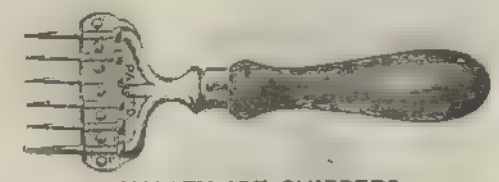
Half Dozen in a Box



Per Dozen

No. 900—3½x2 inch Steel Blade; Japanned Heavy Cast Iron Handle; Length Over All 7 inches; Weight per Dozen 15 lbs. **$3 00**

One Dozen in a Box

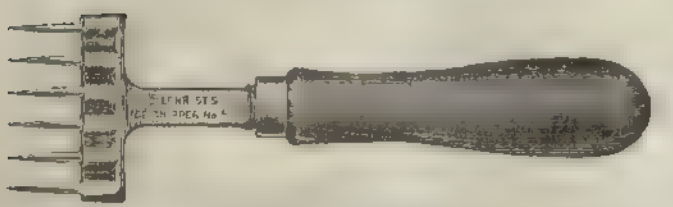


HALSEY ICE CHIPPERS

Per Dozen

No. 7—Hardwood Handle; Tinned Steel Shank with 9 inch Polished Hardwood Handle; Tinned Steel Shank and Shoulder, Riveted; 6 Highly Tempered Needle Points; Width at Shoulder 3 inches; Steel Ferrule; Length Over All 9 inches; Weight per Dozen 5½ lbs..... **$4.00**

One in a Carton; Half Dozen in a Box



GILCHRIST'S CHIPPERS

Per Dozen

No. 50—Made of Malleable Iron; Tinned Finish; 6 Needle Points are of Best Crucible Steel, Hardened and Tempered; Width at Shoulder 2 11/16 inches; Hardwood Handle; Length Over All 9¼ inches; Weight per Dozen 4½ lbs.. ..... **$5 00**

One in a Carton; Dozen in a Box.

ICE CHISELS

LIGHTNING ICE CHIPPERS

Per Dozen

No. 1L—Galvanized Cast Iron Frame; Four ⅛ inch Tempered Steel Pins with Beveled Cutting Ends; Brass Ferrule; Hardwood Handle, Securely Bolted to Socket; Width of Frame 2¼ inches; Length Over All 9¼ inches; Weight per Dozen 14 lbs. **$10.50**

Three Dozen in a Case

EXTRA LARGE ICE CHISELS

For Hotels, Restaurants, Saloons, Soda Founts, Fish and Oyster Packers, etc.

Polished Cast Steel Tempered Blade; Imitation Walnut, Hardwood Handle; Heavy Steel Ferrule.

Per Dozen

No. 1010—10x2⅞ inch Blade; 10 inch Fancy Wood Handle; 20 inches Over All; Weight per Dozen 20 lbs..... ..... **$22.00**

Quarter Dozen in a Box.

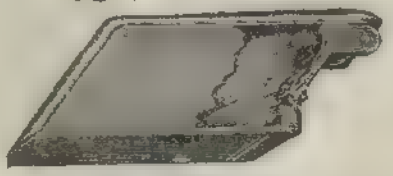
★DIAMOND EDGE

Per Dozen

No. DE—7x4½ inch Tempered Cast Steel Blade with Ground Cutting Points; Lower Half Polished; Upper Half and Riveted Iron Socket Japanned Black; Finished Ash Hande; Gold Bronzed Malleable Iron D with Hardwood Grip; Length Over All 41 inches; Weight per Dozen 43 lbs..... **$26.50**

One Dozen in a Crate.

ICE SHAVES



GEM

Per Dozen

No. 1—Galvanized Cast Iron Box 6x2x2 inches, by Hinged Lid; Tempered Steel Adjustable Knife, Secured by Screw at Back; Width of Blade 1¾ inches; Weight per Dozen 20 lbs. **$10.50**

One in a Carton

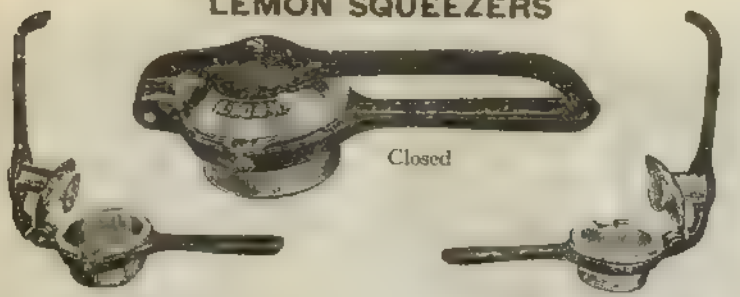
BRIGHTON

Per Dozen

No. 6—Tinned Cast Iron Box 5x2x1¾ inches, with Hinged Lid; Tempered Steel Knife 1¾ inches Wide, Secured by Rivet at Back; Not Adjustable; Weight per Dozen 15 lbs..... **$7.00**

One in a Carton.

LEMON SQUEEZERS



No. 37—Open. No. 38—Open.

Length 9½ inches; Outside Diameter of Bowl 3½ inches.

Per Dozen

No. 37—Cast Aluminum Cup; Lid and Plunger; Japanned Malleable Iron Frame; Weight per Dozen 22½ lbs..... $26.50

One in a Box.

Per Dozen

No. 38—Porcelain Cup; Aluminum Lid; Hardwood Plunger; Japanned Malleable Iron Frame; Weight per Dozen 24 lbs..... $12.00

One in a Box.

Per Dozen

No. EB38—Extra Porcelain Cups; Weight per Dozen 6 lbs... $3.70

Loose.

LITTLE GIANT Per Dozen

No. 22—Tinned Cast Iron Frame and Hollow Handles; Tinned Steel "Anti-Squirt" Juice Shield; Four Joints in Frame; Size of Frame 2¼x2¼ inches; Length Over all 9½ inches; Weight per Dozen 15 lbs..... $8.50

Half Dozen in a Box.

Per Dozen

No. 20—Japanned Malleable Iron Frame; Porcelain Perforated Cup; Hardwood Pressure Ball; Length 8½ inches; Diameter of Bowl 3¼ inches; Weight per Dozen 17 lbs..... $5.00

Half Dozen in a Box.

BOSS

Tinned Malleable Iron; Lipped Cup; Rivet Hinge, Hole in Handle for Hanging.

Per Dozen

No. 85—Length 8 inches; Diameter 3 in.; Weight per Dozen 10 lbs. $3.00

Half Dozen in a Box.

Per Dozen

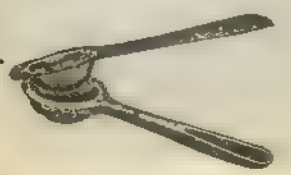
No. 10—Length 10½ inches; Diameter 3¾ inches; Weight per Dozen 18 lbs..... $4.50

Half Dozen in a Box

CRESCENT Per Dozen

No. 100—Tinned Malleable Iron with Scalloped Cone and Perforated Cup; Length Over all 8 inches; Diameter Bowl 2¼ inches; Weight per Dozen 7 lbs..... $2 50

One Dozen in a Box.



STAR Per Dozen

No. 5—Tinned Malleable Iron with Perforated Cup; Length Over all 8 inches; Diameter of Bowl 2½ inches; Weight per Dozen 13 lbs. $2 80

One Dozen in a Box.

LEMON SQUEEZERS

Per Dozen

No. 781—Smooth White Maple Frame; Aluminum Ball and Perforated Bowl; Length Over all 11 inches; Diameter Bowl 2½ inches; Weight per Dozen 13 lbs. $11 50

One Dozen in a Box.

Per Dozen

No. 41—Smooth Maple Frame; Polished Lignum vitae Knob and Perforated Bowl; Nickel Plated Wrought Steel Hinge; Length 11¼ inches; Width 3⅛ inches; Weight per Dozen 16 lbs..... $16 50

Loose

Per Dozen

No. 0—Smooth Maple Steel Hinge Joint; Length Over all 10 inches; Width 2⅛ inches; Weight per Dozen 8 lbs..... $2 50

One Dozen in a Box.

LIME SQUEEZERS

Aluminum; with Strainer; Only Clear Juice is Delivered into the Glass; Strainer holds Pits and Pulp.

Per Dozen

Lime—Length 7 inches; Jaws Open 2¼ inches; Weight per Dozen 1 lb. $36.50

One Dozen in a Box.

LEMON JUICE EXTRACTORS

GLASS Per Dozen

No. 1—For Use with Tumbler; Perforated Bottom; Diameter 3¾ inches; Weight per Dozen 4¾ lbs..... $1.10

One Dozen in a Box.

GLASS Per Dozen

No. 4—With Saucer Shaped Rim, Handle and Lip; Diameter 5 in.; Weight Dozen 11½ lbs..... $1 20

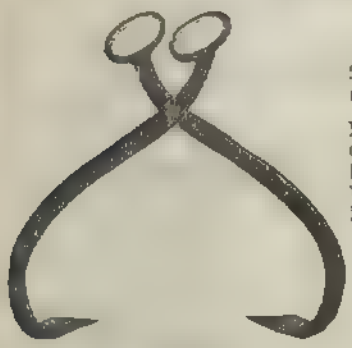
Third Dozen in a Box

ALUMINUM Per Doz

No. 1A—For use with Tumbler; Perforated Bottom; Diameter 3¾ inches; Weight Dozen ⅝ lb..... $1.70

One Dozen in a Box.

ICE TONGS



Duck Bill Points; Drop Forged Steel; Painted Red; Tempered Diamond Points; Swelled Handles.

Nos.	1	2	3
Opens, In.	15	17	21
Length, In.	16	17	21
Wt. Doz. lbs	47	53	70
Per Doz.	$28.00	30 00	36 00

Loose

Chain Link; Wrought Iron, 5/8x1/2 inch; Painted Black; Round Grip.

Nos.	10	11	12
Opens, Inches.	10	14	17
Length, Inches.	15½	18	20
Weight, Doz., lbs.	16	27	38
Per Dozen.	$16 50	22.00	25.00

Loose

LOUDEN

Self Closing; Best Crucible Spring Steel, Malleable Iron Handles.

Nos.	15	16	17
Opens, In.	13	17	21
Length, In.	15	17½	21
Wt. Doz. lbs	37	40	45
Per Doz.	$22.00	23.00	24.00

Loose

Per Dozen

No. 00—Wrought Steel, 5/8x1/2 inch; Painted Black; Opens 12 in.; Length 14 in.; Weight per Doz. 20 lbs.. $12.50

Loose

FORGED STEEL

Oil Tempered Points; Natural Finish with Double Action Joints.

Nos. 112 and 118 Plain Handle.

No. 124 Wood Handle.

No.	112	118 Loading	124 Loading
Size	20 lb.	18	24
Open, in	12	18	24
Wt. Doz., lbs.	25	35	45
Per Doz.	$5 00	9.50	16.50

Loose

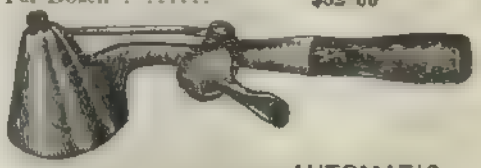
ICE CREAM DISHERS

AUTOMATIC

Bowl, Shank and Lever Made of Special Cast Aluminum; Light, Clean and Will Not Corrode; German Silver Blades; Polished Hardwood Handle. Pressing the Leather at Side of Handle Causes Blades to Revolve, Depositing the Cream in the Form of the Disher; Blades are Removable for Cleaning. Cone Center Leaves Depression in Cream for Cherry.

AUTOMATIC
BOWL SHAPE CUP
Regular

Nos.	3868	38612	38616
Dishes to Quart	8	12	16
Diameter Top Inches	2¾	2⅜	2¼
Depth, Inches	1⅝	1¼	1¼
Weight per Doz., Lbs.	10	8	6
Per Dozen	$52 00	52 00	52 00

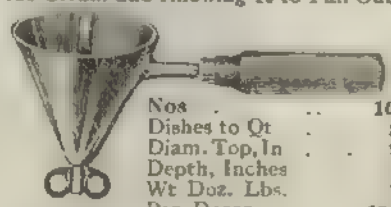


AUTOMATIC
CONE SHAPE CUP
Regular

Nos.	2868	28612	28616
Dishes to Quart	8	12	16
Diameter Top. Inches	2¾	2⅜	2¼
Depth, Inches.	2⅛	1⅞	1½
Weight per Doz, Lbs.	10	8	6
Per Dozen.	$52 00	52 00	52 00

Twelfth Dozen in a Carton

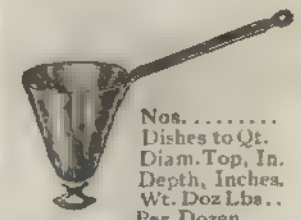
A Half Turn of the Thumb Piece Revolves the Scrapers, Loosening the Cream and Allowing It to Fall Out



IXXXX Tin Bowl
German Silver Removable Scrapers; Varnished Hardwood Handle

Nos.	108E	110E	112E	116E	20E
Dishes to Qt.	8	10	12	16	18
Diam. Top, In	3	2¾	2½	2⅛	2⅛
Depth, Inches	2⅝	2½	2¼	1⅞	1¾
Wt Doz. Lbs.	3⅝	3	2⅞	2¾	2⅝
Per Dozen.	$8 50	7 50	7 50	7 50	7 50

Loose



IXXXXX Tin Bowl
German Silver Scrapers, Not Removable, Tinned Concave Steel Handle

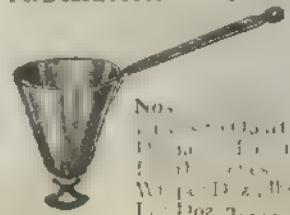
Nos.	108N	108N	110N	116N
Dishes to Qt.	8	8	10	16
Diam. Top, In.	3	2¾	2⅝	2¼
Depth, Inches.	2⅛	2⅛	2⅛	1⅝
Wt. Doz Lbs..	3	2¾	2⅔	2⅛
Per Dozen..	$9 50	9 00	8 00	7 50

Loose

IXXX Tin Bowl
Tinned Steel Scrapers, Tinned Steel Removable Loop Handle

Nos.	8E	10E	12E	16E	20E
Dishes to Qt.	8	10	12	16	20
Diam. Top, In.	3	2¾	2½	2⅛	2⅛
Depth, in	2⅝	2½	2¼	2	1¾
Wt Doz. Lbs..	3	2¾	2⅝	2½	2½
Per Dozen	$5.00	4.50	4.50	4.50	4.50

Loose



IXX Tin Bowl
Tinned Steel Scrapers, Not Removable

Nos.	5N	6N	8N	10N	16N
Dishes to Qt.	5	6	8	10	16
Diam. Top, In.	3		2⅝	2¼	2⅛
Depth, Inches			2⅛	2	1¾
Wt. Doz. Lbs.	3	2¾	2½	2½	2½
Per Doz.	$3 50	3.50	3.50	3.50	3.50

Loose

ICE PICKS
Diamond Edge

Per Dozen

No. DER—Regular Iceman's. Large Handle; 6x⅞ inch **Long Taper**; Spring Tempered, Polished Steel Blade; 3¼x1⅛ inch Polished Maple Handle; Heavy Rustless Ferrule; Weight per Dozen 2¼ lbs. **$3 20**

One Dozen in a Box

Per Dozen

No. DEH—Hoosier Pattern; 6⅛x⅞ inch **Long Taper** Spring Tempered, Polished Steel Blade; 8x1¼ inch Polished Maple Handle; Heavy Rustless Ferrule; Weight per Dozen 2½ lbs. **$3.20**

One Dozen in a Box

Per Dozen

No. DESTL—St. Louis Iceman's Handle; 6x⅞ inch **Long Taper**, Spring Tempered, Polished Steel Blade; 4½x1 inch Plain Beechwood Handle; Rustless Ferrule; Weight per Dozen 1½ lbs. **$1.70**

One Dozen in a Box

Per Dozen

No. 93—4⅜x⅞ inch Tempered Steel, Nickel Plated Blade; Imitation Cocobolo Pear Shaped Handle; Nickel Plated Brass Ferrule; Length Over All 10½ inches; Weight per Dozen 3¼ lbs. **$1 70**

Half Dozen in a Box

Per Dozen

Special—5½x⅞ inch Long Taper, Tempered, Polished, Steel Blade 3½x1¼ inch; Plain Hardwood Handle; Tinned Ferrule; Weight per Dozen 1½ lbs. **$1.70**

One Dozen in a Box

STANLEY HURWOOD PATTERN

Blade, Shank and Head are formed of one piece of Steel; Two Patented Wings under the Head together with a Rivet which passes through the Ferrule, Handle and Shank; Have needle points; No chopping necessary, just push the point through the ice.

Per Dozen

No. A—Round Pattern 5½x⅞ inch Taper; Black Japanned Handle; Weight per dozen 2⅛ lbs. **$5.00**

Half Dozen in a Box

Per Dozen

No. C—Regular Pattern 5½x⅞ inch Taper; Black Japanned Handle; Weight per dozen 2 lbs. **$4.50**

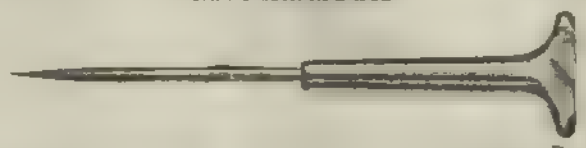
Half Dozen in a Box

ICE PICKS
Diamond Edge

Per Dozen

No. 94A—6¾x⅞ inch Nickel Plated and Polished, Long Taper, Needle Point, Tempered Steel Blade; Hardwood Handle; Tinned Iron Cap, Secured by Screw; 1¾ inch Head; Nickel Plated Brass Ferrule; Length Over All 9¼ inches; Weight per Dozen 3¼ lbs. **$2 20**

Half Dozen in a Box



Per Dozen

No. 104—3¾x⅞ inch Blued Steel Round Blade; Nickel Plated Cast Iron Handle; Diameter of Head 1⅝ inches; Length Over All 7⅜ inches; Weight per Dozen 3¾ lbs. **$4.50**

One Dozen in a Box

Per Dozen

No. 94—5½x¼ inch Tempered Steel, Polished Blade; Length Over All 7 inches, Large Nickel Plated Cast Iron Head; Weight per Dozen 6 lbs. **$3.00**

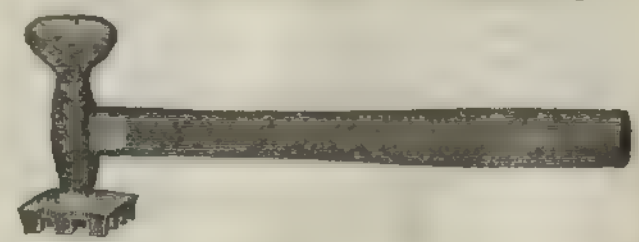
One Dozen in a Box

Per Dozen

No. 93A—**Sliding Ice Pick**; ¼ inch Round Tinned Iron Blade 4⅝ inches Long, Closed; 7⅜ inches Long, Extended; 4½ inch Japanned Iron Handle with 1½ inch Head, Length Over All 12 inches; Weight per Dozen 7⅛ lbs. **$3 00**

Half Dozen in a Box

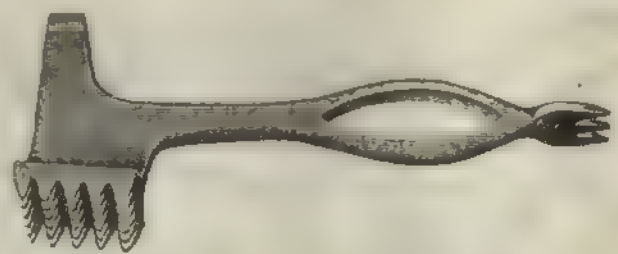
ICE AND STEAK HAMMERS



Per Dozen

No. 8—Tinned Malleable Iron Head; Size of Face 1⅝x1⅝ inches; Length of Head 4 inches; 10 inch Varnished Hardwood Handle, Weight Per Dozen 9 lbs. **$2.00**

One Dozen in a Box



Per Dozen

No. 6—Tinned Malleable Iron; Size of Face 1⅛x1¾ inches; Length of Head 2¾ inches; Length Over All 6¾ inches; 3 Prongs at End of Handle; Weight per Dozen 8 lbs. **$1 80**

One Dozen in a Box

Incandescent Electric Headlights

No. 1638R Incandescent Headlight

12-inch

Accommodates a range of railway Mazda concentrated filament lamps—G18½ to G30 inclusive

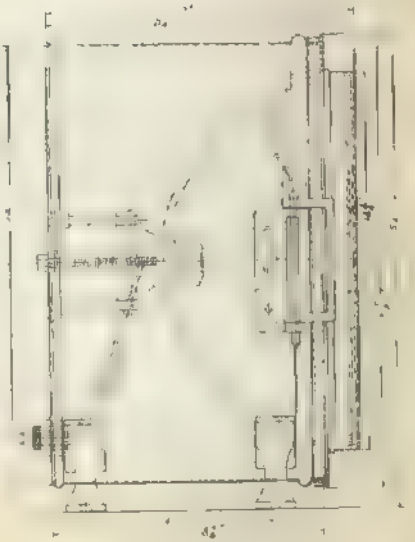
The case is neat, compact and of light weight, consistent with strength is provided with a detachable, weather-proof door, securely fastened—can be furnished with Golden Ray parabolic glass reflector, or of copper, silver-plated if desired

Attention is directed to line drawing opposite given for the purpose of demonstrating simplicity of the focusing device.

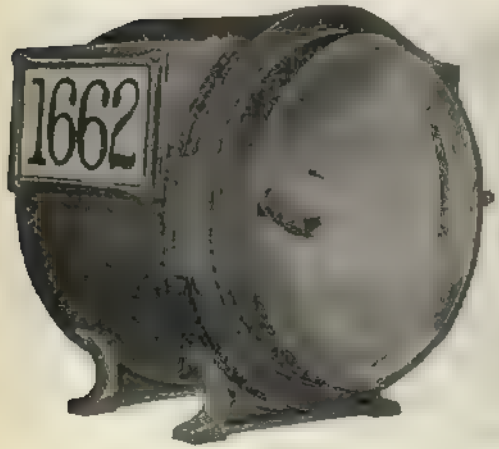
Prices quoted do not include lamps

With glass reflector..each $28.00

With copper S. P. reflector.....each 24.00



Incandescent Electric Headlights



No. 1662 Incandescent Headlight

12-inch

Accommodates a range of railway Mazda concentrated filament lamps—G18½ to G30 inclusive

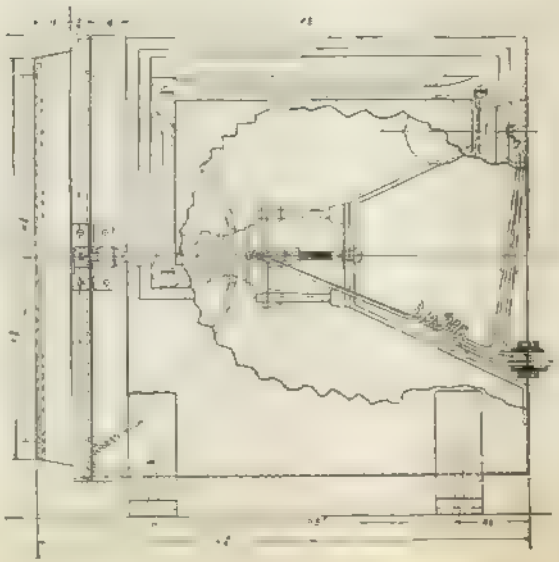
Is very similar to the style shown on opposite page, but fitted with side number frames to meet conditions where such is a necessity—An auxiliary lamp is properly placed to give ample illumination to the side numbers

Attention is directed to line drawing opposite given for the purpose of demonstrating simplicity of the focusing device

Prices quoted do not include lamps

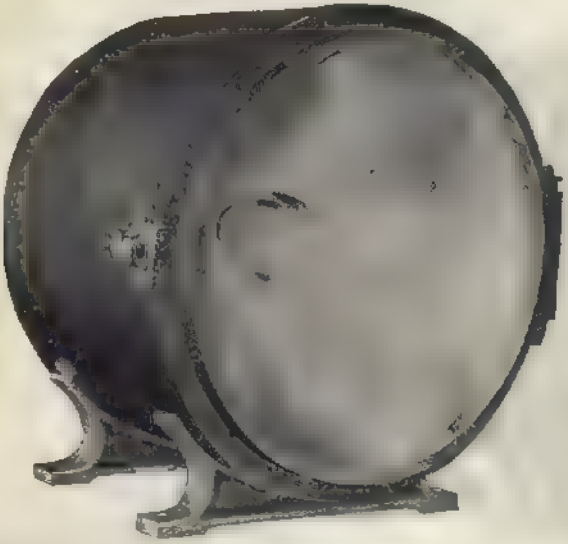
With glass reflector.....each $33 00

With copper S. P reflector.each $28 00



Incandescent Electric Headlights

No. 1644R Incandescent Headlight

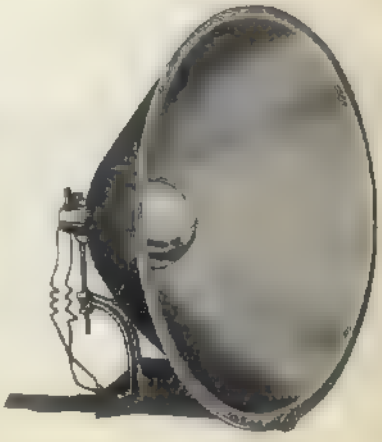


16-inch

Accommodates a range of railway Mazda concentrated filament lamps—G18½ to G30 inclusive.

The above cut illustrates a somewhat larger headlight than those shown on the preceding page, and may be found advantageous in certain locations where a greater volume of light is required. It is furnished with a copper silver-plated reflector.

Prices quoted do not include lamps. Price . . . . . each $38 00



Interior for Above Headlight

Incandescent Electric Headlights

No. 1665 Incandescent Headlight

16-inch

Accommodates a range of railway Mazda concentrated filament lamps—G18½ to G30 inclusive

Is very similar to the headlight shown opposite, using the same reflector, but furnished with side number frames and auxiliary lamp to properly illuminate same—electrical connections are made automatically by blade contacts

Prices quoted do not include lamps

Price .... each $40.00

Interior for Above Headlight

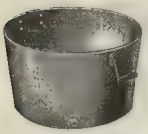
INDURATED FIBRE WARE.

List adopted March 29, 1918

FIBROTTA.

"Fibrotta" Ware is moulded from a mass of fibre, hydraulically pressed. The care that is taken in the manufacture of each article makes it impervious to moisture; is brown in color and highly polished; it is a non-conductor of heat and electricity and is not affected by action of ordinary acids.

WASH TUBS.



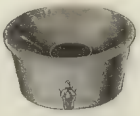
Bottoms chimed; No. 6 gauge galvanized wire handles; galvanized steel ears, copper riveted; black enameled wood grips; wringer attachment with every tub.

Nos.	F0	F1	F2
Top, inches	23½	20½	19
Depth, inches	13	12	10½
Weight per dozen, pounds	264	212	180
Per dozen	$65.00	53.00	47.00

One-fourth dozen in a crate.

SPITTOONS.

Two parts; all fibre.



Nos.	1	2	3
Inches	5½x13	5½x11	4½x9
Wt. per doz., lbs.	61	39	26
Per dozen	$21.60	17.20	15.00

Half dozen in a crate

Two parts; fibre bottom, polished brass top.

No.	2B
Inches	5¼x10¾
Weight per dozen, pounds	38
Per dozen	$27.00

Half dozen in a crate.

STAR WATER PAILS.

Star—Chimed bottom, heavy steel wire bail, copper riveted ears, black enameled wood grips.

Quarts	12
Weight per dozen, lbs	50
Per dozen	$12.00

Half dozen in a crate.

FIRE PAILS.

Stenciled "FOR FIRE ONLY."

These pails can be kept constantly full of water. They have no seams to leak and cannot rust out. Bottom rounded and chimed.

No	F12
Quarts	12
Weight per dozen, lbs.	55
Per dozen	$20.00

Railroad—Made to be hung up; has small mouth and will not pull together

Quarts	10
Weight per dozen, lbs	66
Per dozen	$15.00

Half dozen in a crate.

PAIL COVERS.

With enameled wood knob, bolted.

No.	12
Inches	12
Weight per dozen, lbs	10
Per dozen	$4.00

Two dozen in a crate.

Industrial Horn Signals

Heavy Duty Interior Type

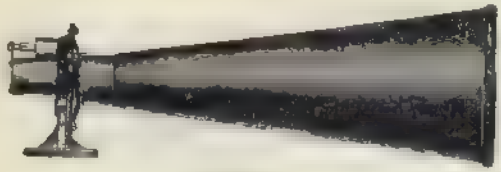


Fig 1077

Interior fire alarm, factory calling, etc. All-steel construction. Heavily japanned. Will replace large gongs. Approved by Underwriters Laboratories. 11½-inch diaphragm, 18-inch projector, 24 inches long over all. No contact points, no springs, no adjustments. Outside connections.

No 660. A. C., 110 volts, ¼-amp., 40-60-cycle $8 00
No 665. A. C., 220 volts, ¼-amp., 40-60-cycle 9 00

Designed for intermittent service. Made to order, any voltage 10-230.

Arranged for direct current, same class and dimensions as above.

No 680. D. C., 110 volts, ⅓-amp. $9 00

Made to order, any voltage 6-115). Used with resistance unit on 230 volts.

Leader for Industrial Calling Systems

Suitable for interior fire alarm, start and stop, automatic alarms, time switch, watchman, job limit systems, and other uses. Will replace electric bells up to 12-inch. All-steel construction, heavily japanned. Designed for intermittent service. Approved by Underwriters Laboratories. 4-inch diaphragm, 7-inch projector, 10 inches long over all. No contact points, no springs, no adjustments. Outside connections.

No 440. A. C., 110 volts, ¼-amp., 40-60-cycle $6 00
No 445. A. C., 220 volts, ¼-amp., 40-60-cycle 7 00

Fig 1078

Made to order, any voltage (10-230).

Arranged for direct current, same class and dimensions as above.

No 480. D. C., 110 volts, ⅓-amp. $7 00

Made to order, any voltage (6-115). Used with resistance unit on 220 volts.

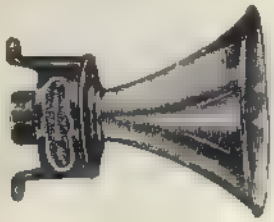


Fig 1079

A. C. Utility Signal

Designed for semi-noisy locations. Suitable for all forms of industrial signal systems. Intermittent service. Switch and sidewall type. 3-inch diaphragm, 4-inch projector, 7 inches long over all. No contact points, no springs, no adjustments. Brass flange japanned. Pigtail connections.

No 500. 110 volts, ⅛-amp., 40-60-cycle $4 50
No 505. 220 volts, ⅛-amp., 40-60-cycle 5 00

Special windings (10-230 volts to order).

A. C. Hummer

Designed for office, house, and other quiet noisy conditions. Suitable for all signal systems. 2¼-inch diaphragm, 2¾ inches long. No contact points, no springs, no adjustments.

No 300. A. C., 11[illegible] volts, ¼-amp., 40-60-cycle $1 50

To order, any voltage (10-230).

Fig 108[illegible]

Steel Gongs

Rotary Multiple Ringing Roof or Hood Gong

Fig. 1081

The alarm given by this gong can be varied from a single blow to a continuous ring. The tone is excellent. The mechanism is simple and durable. All exposed parts are highly nickel plated. The gong requires absolutely no attention after once being installed. It will ring perfectly in all temperatures and will not crack, break or lose its tone, no matter what conditions of the sphere or atmosphere it may be subjected to.

No. 1960

8-inch diameter	each	$18 00
10-inch diameter	each	20 00
12-inch diameter	each	23 00
14-inch diameter	each	25 00

Chief's Buggy Bell, Rotary Multiple Ringing Type

Fig. 1083
Back

The movement of this gong contains no springs. It is simple and durable, and once installed will require no further attention to keep it in working order. The alarm given by this bell can be varied from a single tap to a continuous alarm. Fifteen to twenty rings with each depression of push pin. All exposed parts are highly nickel plated.

No. 1970

10-inch diameter	each	$12 00
12-inch diameter	each	14 00
14-inch diameter	each	16 00

Single Stroke Roof or Hood Gong

Fig. 1082

Loud clear ring. Simple in construction. Gong shell steel. Attachment iron.

Furnished with nickel plated gong and black japanned attachment unless otherwise specified.

No. 1490

8-inch diameter	each	$ 50
10-inch diameter	each	65
11-inch diameter	each	75
12-inch diameter	each	4 50

Conductors' Signal Gong

Fig. 1084

No. 17. Gong shell nickel plated steel. Attachment bronzed.

No. 18. Gong shell polished brass. Attachment polished brass.

Nos. 17 and 18

4-inch diameter	each	$2 25
5-inch diameter	each	2 50
6-inch diameter	each	2 75

Same list applies to both Nos. 17 and 18.

INGERSOLL WATCH DISPLAY CASE

Each

No. 8—Triangular, Hard Wood Frame, Varnished, Heavy Glass Front and Side, Plush Lined, Height 9 inches, Width 8½ inches; Depth 9 inches **$2 00**

One in a Case
Weight 12½ lb.

COMBINATION WATCH AND FOB

Watch—On Time RR; Stem Wind and Stem Set; Dust Proof Snap on Back; Nickel Plated and Polished Cases; Large Arabic Figures; Plain Back.

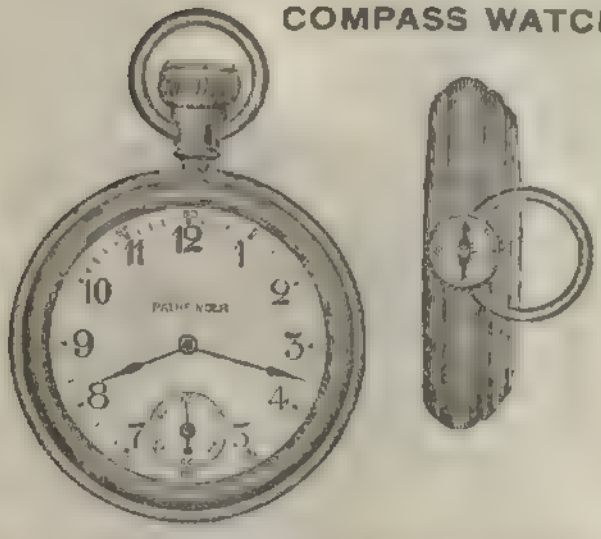
Fob—Black Calf Skin; 1 inch Wide Creased Edges; Fancy Gold Plated Compass Charm; Bright Finish Buckle; Length of Fob Over all 7 inches; Fastens to Watch in Usual Way.

Each

No. C35/OT—On Time Watch and Fob; Weight 4 ozs.....**$2.10**

One in a Box

COMPASS WATCH



Each

Pathfinder—One Day Time; Open Face; Nickel Case, with Compass set in Stem; Heavy Bevel Crystal; Stem Wind and Stem Set; 1½ inch Dial; Accurate Movement; Wt. Each 3 ozs. **$1.90**

One in a Box

PEDOMETERS

For Measuring Walking Distances

To attach, slip over the top of your pocket or over your Belt, will then occupy an upright position, which is necessary to the working of the Lever Mechanism. If not carried in an upright position the works will not operate—it will not register your step. Can be regulated to the step of the wearer. The figures on the scale on the back of the works represent inches and each notch intervening between the numbers represents one inch. Can be regulated for any step between 15 inches and 41 inches. To regulate, measure the distance you take at each step or stride from (heel to heel.) If your step measures 27 inches, set the Indicator at Figure 27. If your step measures 28, move the Indicator one notch forward to "fast." If your step measures 24 inches, move the Indicator back three notches toward "slow," etc. The average step of persons measures 27 inches, therefore is now set for a 27 inch step Thoroughly tested and regulated and it is warranted to be reliable and accurate. The hand can be set by removing the back and turning the hand set backward or forward.

Per Dozen

No. A100—100 Mile; Nickel Case; Cardboard Dial Spaced off in Quarters, Halves and Three-quarter Miles; Heavy Beveled Glass; Pendant Clasp; Weight Each 2 ozs.....**$42 00**

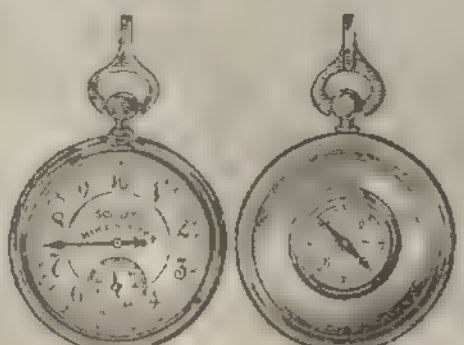
One in a Box

GEM

Per Dozen

No. G100—100 Miles; Highly Polished and Nickeled Throughout; Hinged Back; Porcelain Dial Spaced Off in Quarters, Halves and Three-quarter Miles; Heavy Beveled Glass; Weight Each 2½ lbs. **$54 00**

One in a Box with Cloth Bag



Cut shows Front of Hikemeter

Cut shows Back of Hikemeter

Each

Scouts—Nickel Case; 100 mile Dial; Spaced off in Quarters, Halves and Three-Quarter Miles; Heavy Beveled Crystal; Pendant Clasp; Compass Set in Snap Back; Weight Each 2 ozs..... **$2 30**

One in a Box

GENTLEMAN'S WATCHES
INGERSOLL

TRIUMPH

Open Face; Size 16, full open Stem Wind and Pendant Set, Antique Bow and Crown; Snap Back and Bezel; Frosted Nickel Finish Back Plate; Ultra-Modern Compressed Engine-turned Dial. Guaranteed and Tested for Accuracy.

	Per Dozen
No. Triumph—Nickel Plated	$25 60

One in a Box.

YANKEE

Open Face, Size 16, Full Stem Wind and Pendant Set, Plain Movement Plate; American-Lever Escapement; Round Balance and Quick Train (240 Beats to the Minute) Short Wind and Long Run (30 to 36 Hours at one Winding); Plain Snap Back and Bezel with Heavy Beveled Crystal.

	Per Dozen
No. YN—Nickel Plated	$18 60
No. YM—Gun Metal	18 60
No. YG—Gold Plated	18 60

One in a Box.

ECLIPSE

Open Face, Thin Model; Full Nickel Finish; Full Stem Wind and Pushpiece Set; Semi-Bassine; Snap Back and Bezel; Dark Blue Marine Finish Hands and Guaranteed for Accuracy.

	Per Dozen
No. EN—Solid Nickel	$33 60
No. EM—Gun Metal	33 60
No. EG—Gold Plated	34.80

One in a Box.

JUNIOR

Open Face, Thin Model, Size 12, Full Stem Wind and Pendant Set; Duraskeened Movement Plate, Gilt Steel Pinions, Round Balance and Steel Wire Cut Wheels; Main spring encased in Patent Barrel and Polished Balance Staff and Safety Rollers; Pillars are Screwed to Plates on Both Ends; Snap Back and Bezel with Beveled Crystal.

	Per Dozen
No. JN—Nickel Plated	$44 40
No. JM—Gun Metal	45 60

One in a Box.

GENTLEMAN'S WATCHES
INGERSOLL

RADIO-LITE YANKEE

For Campers, Doctors, Night Watchmen, and other Night Workers.

Open Face, Black Dial with Figures and Hands coated with Luminous Substance which shines in the Dark more Brilliantly than Pure Radium; Size 16; Full Stem Wind and Pendant Set; Plain Movement Plate; American Lever Escapement; round Balance and Quick Train (240 Beats to the Minute.) Short Wind and Long Run (30 to 36 Hours at one Winding.) Plain Snap Back and Bezel with Heavy Beveled Crystal.

	Per Dozen
No. IR—Nickel Plated	$37.20

One in a Box.

LADIES WATCHES

MIDGET

Open Face; Size 0 Case; Fitted with Finely Adjusted Movement with Damaskeened Movement Plate; Snap Back and Bezel with Heavy Beveled Crystal. Wt. 2 ounces.

Plain Back

	Per Dozen
No. MN—Nickel Polished Case	$42.40
No. MM—Gun Metal Case	45 60
No. MG—Gold Plated Case	45.60

One in a Box.

WRIST WATCHES
INGERSOLL

RADIO-LITE MIDGET

Open Face, Black Dial with Figures and Hands Coated with Luminous Substance which Shines in the Dark more Brilliantly than Pure Radium; Size Six Case; Fitted with Finely Adjusted Movement, Snap Back and Bezel with Heavy Beveled Crystal, Loop for holding Strap; Packed in Red Satin Lined Box.

	Per Dozen
No. RWW—Nickel Plated Watch and Buckle; Weight per Dozen 2¼ lbs	$88 40

One in a Box.

Open Face, Size 6 Case; Fitted with Finely Adjusted Movement with Damaskeened Movement Plate, Ultra Modern Compressed Figures on the Dial, Snap Back and Bezel with Heavy Beveled Crystal Unbreakable Strap; Genuine Arabian Leather Strap, Packed in Red Satin Lined Box.

	Per Dozen
No. WNIC—Polished Nickel Plated Watch and buckle; Weight per dozen 2¼ lbs	$34.00
No. WGM—Gun Metal Watch and Buckle; Weight per Dozen 2¼ lbs	56 70

One in a Box.

Each.

No. F401—Invalids' Chair; 14 inch rear swivel wheel, 28 in. front wheels; ¾ in. rubber tires; 31 in. back; height of seat from floor 20 in., height of seat from foot board 17 in., height of arms from seat 9½ in., depth of seat 20 in., width of seat between arms 19 in., width over all 29 in.; weight crated, 90 lbs.; weight of chair, 60 lbs. Wheels have hand rims, by means of which the occupant can propel the chair..... **$81.00**

Each.

No. F404—Invalids' Chair; 10 inch rear swivel wheel; 28 in. front wheels; ¾ in. rubber tires; 31 in. back; height of seat from floor 21½ ins.; height of seat from foot-board 17 ins.; height of arms from seat 9½ ins., depth of seat 20 ins., width of seat between arms 19 ins., width over all 29 ins. Full elliptic springs, has hand rims on wheels. Weight crated, 105 lbs., weight of chair, 60 lbs.... **$92.00**

Each.

No. F407 -Invalids' Chair; 10 inch rear swivel wheels; 28 in. front wheels; ¾ in. rubber tires; 31 in. back; height of seat from floor 21 ins.; height of seat from foot-board 17 in., height of arms from seat 9½ ins., depth of seat 20 ins., width of seat between arms 19 ins., width over all 29 ins. Full elliptic springs, has hand rims on wheels. Weight crated, 105 lbs., weight of chair, 68 lbs..... **$99.00**

Each.

No. F413—Invalids' Chair; 14 inch rear swivel wheel; 28 in. front wheels; ¾ in. rubber tires; 31 in. back, height of seat from floor 20 in., height of seat from foot-board 18 in., height of arms from seat 9½ in., width of seat between arms 19 in., depth of seat 20 in., width over all 29 in. Two piece independent adjustable leg rest; hand rims on wheels. Weight crated, 105 lbs., weight of chair, 63 lbs..... **$102.00**

Each.

No. F410—Invalids' Chair; 26 inch rear wheels; ¾ in. rubber tires; 10 in. front wheels; 31 in. back; height of seat from floor 22 in., height of seat from foot-board 17 in., depth of seat 20 in., width of seat between arms 19 in., width over all 29 in. Full elliptic springs; hand rims on wheels and extension wood push handles. Weight crated, 105 lbs., weight of chair, 68 lbs..... **$102.00**

Each.

No. F428—Invalids' Chair; 26 in. rear wheels; 10 in. front wheels; ¾ in. rubber tires; 27 in. back, height of seat from floor 21 in., height of seat from foot-board 18½ in., height of arms from seat 12 in., depth of seat 17 in., width of seat 19 in., width over all 29 in. Full elliptic springs, extension wood push handles, reed body, natural finish, varnished. Weight crated, 90 lbs., weight of chair, 54 lbs..... **$99.00**

Note—Prices F. O. B. Ohio Factory. All numbers can be furnished in 27 in. width and with steel rim wheels or 1 inch rubber tires if desired.

IRON BLOCK PLANES

★DIAMOND EDGE

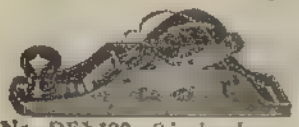
Refined Cast Iron Frame and Cap; Highest Grade English Tool Steel Thin Bit Cutter; Oil Tempered, Ground and Hand Sharpened.

Non-Adjustable

Japanned Top and Cap; Polished Face and Sides; Beechwood Knob.

Each

No. DE110—7½ inches Long; 1⅝ inch Cut; Weight 1¼ lbs..... **$1.06**
One in a Box.



Double End Non-Adjustable

Japanned Top and Cap; Polished Face and Sides; Beechwood Knob. With Two Slots and Reversible Cutter Seat. Each

No. DEX130—8 inches Long; 1⅝ inch Cut; Weight 1¾ lbs..... **$1 50**
One in a Box.

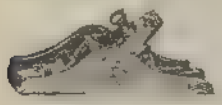
Japanned Top and Cap; Polished Face and Sides. 5½ inches Long; 1⅛ inch Cut; Weight about ¾ lb. Each

No. DE102—Non-adjustable..... **$0 80**
No. DE103—Adjustable..... **1 10**
One in a Box.

With Handle

Japanned Top, Cap and Handle; Ground Face; Not Adjustable. Each

No. DE100—3½ inches Long; 1 inch Cut; Weight ½ lb..... **$0 60**
One in a Box.



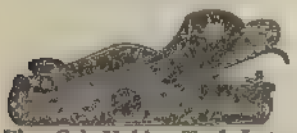
Without Handle

Japanned Top, Sides and Cap; Ground Face; Not Adjustable. Each

No. DE101—3½ inches Long; 1 inch Cut; Weight ⅜ lb..... **$0 44**
One in a Box.

★BRIDGE TOOL CO.

Best Quality Cast Iron Body and Cap; Tool Steel Cutters, Tempered, Ground and Polished. Machined and Polished Cast Iron Face and Sides; Ground Face and Sides.



Adjustable

Japanned Top and Cap; Polished Bottom and Sides; Brass Adjusting Nut; Adjustable Throat which Can be Quickly Opened or Closed for Coarse or Fine Work; Sides are Depressed to Give Firm Grip Hold on Tool. Lateral and Longitudinal Adjustment. Each

No. BX9½—6 inches Long; 1⅜ inch Cut; Weight 1¼ lbs..... **$2 20**
One in a Box.

Adjustable, with Knob Handle

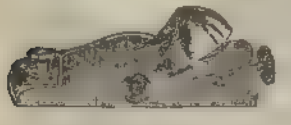
Japanned Top and Cap, Polished Bottom and Sides; Brass Adjusting Nut; Adjustable Throat which Can be Quickly Opened or Closed for Coarse or Fine Work, Sides are Depressed to Give Firm Grip Hold on Tool, Lateral and Longitudinal Adjustment. Each

No. BX15—7 inches Long; 1⅜ in Cut, Wt 1½ lbs. **$2.30**
One in a Box.

Knuckle Joint, Adjustable

Japanned Top; Polished Face and Sides; Nickel Plated Brass Adjusting Nuts and Trimmings; Adjustable Throat which Can be Quickly Opened or Closed for Coarse or Fine Work. Sides are Depressed to Give Firm Grip Hold on Tool; Lateral and Longitudinal Adjustment. Each

No. BX18—6¼ in. Long; 1⅝ in. Cut; Wt. 1⅝ lbs..... **$2 70**
One in a Box



Low Angle, Adjustable

Japanned Top; Polished Face and Sides; Nickel Plated Brass Adjusting Nuts and Trimmings. Adjustable Throat which Can be Quickly Opened or Closed for Coarse or Fine Work. Sides are Depressed to Give Firm Grip Hold on Tool. Lateral and Longitudinal Adjustment. Each

No. BX60—6 inches Long; 1½ inch Cut; Wt. 1¼ lbs..... **$2 50**
No. BX65—7 inches Long; 1½ inch Cut; Wt. 1½ lb..... **2 80**
One in a Box.

IRON BLOCK PLANES

★BRIDGE TOOL CO.

Best Quality Cast Iron Body and Cap; Tool Steel Cutters, Tempered, Ground and Polished. Machined and Polished Cast Iron Face and Sides, Ground Face and Sides.

Toy Size, Plain Throat, without Handle

For Amateurs Use and Boys Tool Chests, All Japanned; Ground Face and Blade; Cast Iron Body and Cap; Tool Steel Cutter; Tempered, Ground and Polished. Each

No. BX101—3½ inches Long; 1 inch Cut; Weight ⅜ lb..... **$0.44**
One in a Box.

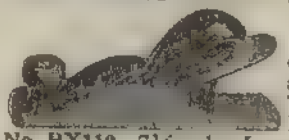
Toy Size, Plain Throat, with Handle

For Amateurs Use and Boys Tool Chests; All Japanned; Ground Face and Blade; Cast Iron Body and Cap Tool Steel Cutter Tempered, Ground and Polished. Each

No. BX100—3½ inches Long; 1 inch Cut; Weight ½ lb..... **$0.56**
One in a Box.

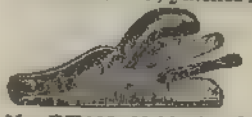
Non-Adjustable; Blade Secured or Released by Turning Thumb Wheel. Cast Iron Body and Cap, Japanned; Ground Face and Blade; Tool Steel Cutter, Tempered, Ground and Polished. Each

No. BX102—5½ inches Long; 1¼ inch Cut; Weight ¾ lbs..... **$0.80**
One in a Box.



Non-Adjustable; Blade Secured or Released by Turning Thumb Wheels; Cast Iron Body and Cap, Japanned, Ground Face and Blade, Tool Steel Cutter, Tempered, Ground and Polished. Each

No. BX110—7½ inches Long; 1¾ in Cut; Wt. 1¼ lbs..... **$1.10**
One in a Box.

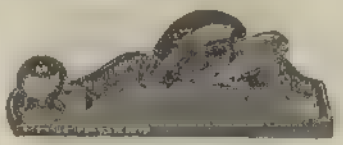


Lever Adjustment; Blade Secured or Released by Turning Thumb Wheel; Longitudinal Adjustment of Cutter. Each

No. BX103—5½ inches Long 1¼ inch Cut; Wt. 1 lb..... **$1.10**
One in a Box.

Screw Adjustment; Blade Secured or Released by Turning Thumb Wheel; Longitudinal Adjustment of Cutter. Each

No. BX220—7½ in. Long; 2¾ in. Cut; Wt. 1½ lbs..... **$1.50**



Double End; Not Adjustable; Japanned Frame and Trimmings, Nickel Plated Adjusting Screw and Walnut Knob; Has Two Slots and a Movable Cutter Seat; Cutter can be Removed and Seat Reversed when it is Desired to Use the Tool as a Nosing Plane when Working up to Walls or into Corners. Each

No. BX130—8 in. Long; 1¾ in Cut; Wt. 2 lbs..... **$1.50**
One in a Box.

COMPARATIVE LIST OF WOOD PLANES

Showing Corresponding Numbers of Leading Manufacturers to Our Stock of Standard Planes.

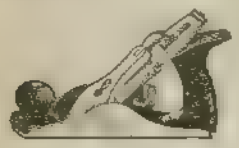
KIND	Shapleigh Hdw Co.	Ohio Tool Co.	Auburn Tool Co.	Chapin's Son	Sandusky Tool Co.	Sargent & Co.
Smooth, Single Iron.....	S 2	1	1	104	1	604
Smooth, Double Iron...	S 3	3	3	112	3	612
Smooth, Handles..	S 5	5	5	112¾	5	612½
Jack, Single Iron.....	S12	12	9	105	10	605
Jack, Double Iron.....	S15	15	12	113	15	613
Jack, Razee, Double..	S17	17	15	113½	17	613½
Fore, Double Iron..	S21	21	20	11	21	614
Jointer, Double Iron...	S27	27	24 & 32	115	25	615
Tooth, Single Iron	30F	30	30	1	30	730
Bead, Single Boxed	37F	37	37	123	37	623
Bead, Double Boxed	38F	38	136	124	48	624
Casing	43⅛F	43 & 44	153 & 154	217¾	54¾	717¾
Scotia or Quarter Round.	43½F	43 & 44	155	217	54	71
Dado, Side Stop.....	47F	47	175	135	60	635
Dado, Screw Stop.....	48F	48	177	131	62	639
Filleter, Side Stop...	53F	53	120	118	67	648
Filister, Screw Stop...	55F	55	121	150	69	650
Common, Ogee.....	59F	59	...	...	...	...
Reverse Ogee.....	62¼F	62¾	126½	207½	82½	707½
Reverse Ogee.....	62½F	62½	...	...	...	...
Hollows and Rounds...	72F	72	180	163	92	663
Hollows and Rounds...	73F	73	180	167	93	693
Match.....	75F	75	72	171	99	671
Nosing, One Iron.....	90F	90	...	...	...	...
Nosing, Two Irons.....	91F	91	180	133	113	192
Panel Plow.....	96½F	96½	91	214	110	784
Panel Plow.....	101F	101	94	258	124	718
Rabbet, Sk'w.....	118F	6	18	157	116	677
Rabbet, Jack.....	119F	9	24 & 32	104	140	650
Rabbet, Jack.....	120F	119	33 & 34	179	132	640

IRON BENCH PLANES

BAILEY ADJUSTABLE

The cutter is adjustable endwise by means of the adjusting wheel at the back of the frog. It is also adjustable sidewise by lever located near the top and at the back of cutter.

The width of the mouth may be regulated and made wider or narrower as coarse or fine work may require. First remove the lever and cutter and loosen the two frog screws that fasten the frogs to the seat. With a screw driver turn the center adjusting screw (see cut) to the right to close the mouth and to the left to open it. When the frog is in the position desired tighten the frog screws and replace the cutter and lever.

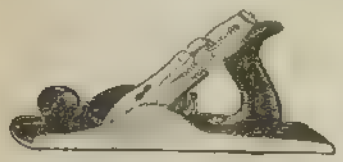


SMOOTH

Japanned Cast Iron Frame; Rosewood Handle and Knob; Finest Quality Tempered English Thin Steel Cutter, Ground and Honed ready for use.

Flat Bottom	Each
No. 1 Leng. 5½ in., 1⅝ in. Cutter; Wt. 1¼ lbs.	$3 40
No. 2 –Leng. 7 in.; 1⅝ in. Cutter; Wt. 2¼ lbs.	4 30
No. 3 –Leng. 8 in.; 1¾ in. Cutter; Wt. 3⅛ lbs.	4 50
No. 4 Leng. 9 in.; 2 in. Cutter; Wt. 3¾ lbs.	4 70
No. 4½–Leng. 10 in., 2⅜ in. Cutter; Wt. 4¾ lbs.	5 60
Corrugated Bottom	**Each**
No. 2C –Leng. 7 in.; 1⅝ in. Cutter; Wt. 2¼ lbs.	$4.30
No. 3C –Leng. 8 in.; 1¾ in. Cutter; Wt. 3⅛ lbs.	4 50
No. 4C –Leng. 9 in.; 2 in. Cutter; Wt. 3¾ lbs.	4 70
No. 4½C–Leng. 10 in.; 2⅜ in. Cutter; Wt. 4¾ lbs.	5 60

One in a Box.

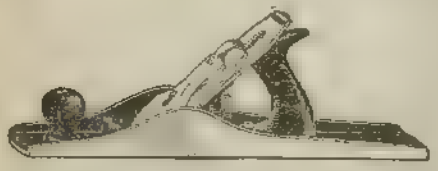


JACK

Japanned Cast Iron Frame; Rosewood Handle and Knob; Finest Quality Tempered English Thin Steel Cutter, Ground and Honed ready for use.

Flat Bottom	Each
No. 5 —Length 14 in.; 2 in. Cutter; Wt. 4¾ lbs.	$5 40
No. 5½—Length 15 in; 2¼ in. Cutter; Wt 6¾ lbs.	6 40
Corrugated Bottom	**Each**
No. 5C –Leng. 14 in.; 2 in. Cutter; Wt. 4¾ lbs.	$5 40
No. 5½C–Leng. 15 in.; 2¼ in. Cutter; Wt. 6¾ lbs.	6 40

One in a Box



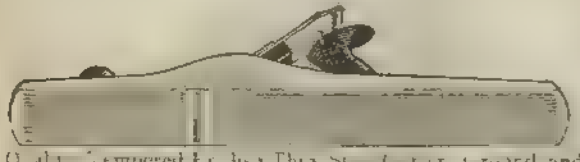
FORE

Japanned Cast Iron Frame; Rosewood Handle and Knob; Finest Quality Tempered English Thin Steel Cutter, Ground and Honed ready for use.

Length 18 inches; 2⅝ inch Cutter; Weight 7¼ lbs.

	Each
No. 6 —Flat Bottom	$7 20
No. 6C—Corrugated Bottom	7 20

One in a Box.



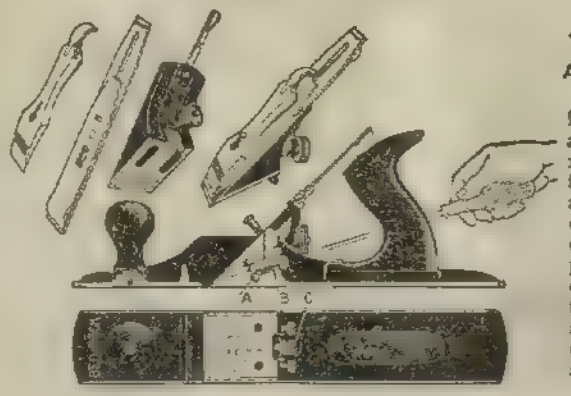
JOINTER

Japanned Cast Iron Frame; Rosewood Handle and Knob; Finest Quality Tempered English Thin Steel Cutter, Ground and Honed ready for use

Flat Bottom	Each
No. 7 Length 22 in.; 2⅜ in. Cutter; Wt. 8¼ lbs.	$8 20
No. 8–Length 24 in.; 2⅜ in. Cutter; Wt. 9¾ lbs.	9 80
Corrugated Bottom	**Each**
No. 7C–Length 22 in.; 2⅜ in. Cutter; Wt. 8¼ lbs.	$8 20
No. 8C–Length 24 in.; 2⅜ in. Cutter; Wt. 9¾ lbs.	9 80

One in a Box.

IRON BENCH PLANES



STANLEY "BED ROCK" ADJUSTABLE

The cutter, frog and bottom are so designed, machined and fitted that they are practically one solid piece of metal, thus preventing any chance of vibration. Particular attention is called to the shape of the side. This new and distinctive feature adds greatly to the strength of the plane as well as affording large bearing surfaces when the plane is used on its sides.

The frog may now be adjusted either forward or backward without removing the lever and cutter, simply slacken the tension of the two frog clamping screws "B," and with a screw driver adjust the frog as desired by means of the frog adjusting screw "C" in the center, and then tighten the frog clamping screws.

The cutter is adjustable endwise by means of the adjusting wheel at the back of the frog. It is also adjustable sidewise by lever located near the top and at the back of the cutter

SMOOTH

Japanned Cast Iron Frame; Rosewood Handle and Knob; Finest Quality Tempered English Thin Steel Cutter; Ground and Honed ready for use.

Flat Bottom	Each
No. 602 –Leng. 7 in.; 1⅝ in. Cutter; Wt. 2¼ lbs.	$5 00
No. 603 –Leng. 8 in.; 1¾ in. Cutter; Wt. 3¼ lbs.	5 30
No. 604 –Leng. 9 in.; 2 in. Cutter; Wt. 3⅝ lbs.	5 80
No. 604½–Leng. 10 in.; 2⅜ in. Cutter; Wt. 4¾ lbs.	6.60
Corrugated Bottom	**Each**
No. 602C –Leng. 7 in.; 1⅝ in. Cutter; Wt. 2¼ lbs	$5.00
No. 603C –Leng. 8 in.; 1¾ in. Cutter; Wt. 3¼ lbs	5 30
No. 604C –Leng. 9 in.; 2 in. Cutter; Wt. 3⅝ lbs	5 80
No. 604½C–Leng 10 in.; 2⅜ in. Cutter; Wt. 4¾ lbs.	6.60

One in a Box.

Japanned Cast Iron Frame; Rosewood Handle and Knob; Finest Quality English Thin Steel Cutter; Ground and Honed ready for use.

JACK –Flat Bottom	Each
No. 605 –Leng. 14 in.; 2 in. Cutter; Wt. 4¼ lbs.	$6 60
No. 605½–Leng. 15 in.; 2¼ in. Cutter; Wt 6¼ lbs.	7 20
JACK –Corrugated Bottom	**Each**
No. 605C –Leng. 14 in.; 2 in. Cutter; Wt. 4½ lbs	$6 60
No. 605½C–Leng. 15 in.; 2¼ in. Cutter; Wt. 6½ lbs	7.20

FORE

Length 18 inches; 2⅝ inch Cutter; Weight 7¼ lbs.

	Each
No. 606 —Flat Bottom	$8 30
No. 606C—Corrugated Bottom	8 30

JOINTER—Flat Bottom	Each
No. 607 Length 22 in.; 2⅜ in. Cutter; Wt. 8¾ lbs.	$9 70
No. 608–Length 24 in.; 2⅜ in. Cutter; Wt. 9¾ lbs.	11 50

JOINTER

Corrugated Bottom	Each
No. 607C–Length 22 in.; 2⅜ in. Cutter; Wt. 8¾ lbs	$9 70
No. 608C–Length 24 in.; 2⅜ in. Cutter; Wt. 9¾ lbs	11 50

One in a Box.

A Smooth Plane is for finishing or smoothing off flat surfaces. Where the uneven spots are of slight area, its short length will permit it to locate these irregularities, leaving the work with a smooth surface when finished.

A Jack Plane is used to true up the edges of a board in the rough and prepare it for the Fore or Jointer.

A Fore Plane is simply a short Jointer, and being lighter, is preferred by some workmen to the longer plane.

A Jointer is a finishing Plane for large surfaces and is invariably used to true up the edges of boards so that they can be closely fitted or joined together.

HORSE SHOES

IRON

BURDEN LIGHT PATTERN

BURDEN FRONT

Nos.	BF1	BF2	BF3	BF4	BF5
Size No.	1	2	3	4	5
Weight Each, ounces	14	17	20	24	27
Approximate No. in Keg	117	95	77	66	56
Per Keg	$13.00	12 50	12.50	12 50	12 50

BURDEN HIND

Nos.	BH0	BH1	BH2	BH3	BH4	BH5
Size No.	0	1	2	3	4	5
Weight Each, ounces	10	11	14	18	22	27
Approximate No. in Keg	161	137	109	88	73	62
Per Keg	$13 00	13 00	12 50	12 50	12 50	12 50

BURDEN HIND ASSORTED

Nos.	BH12	BH23	BH34	BH45	BH123	BH234	BH345
Size No.	1 & 2	2 & 3	3 & 4	4 & 5	1, 2 & 3	2, 3 & 4	3, 4 & 5
Approximate No. in Keg	123	96	78	67	99	88	73
Per Keg	$13 10	12 80	12 80	12 80	13 00	12 80	12 80

BURDEN FRONT AND HIND

Nos.	BFH1	BFH2	BFH3	BFH4	BFH5	BFH6
Size No.	1	2	3	4	5	6
Approximate No. in Keg	127	102	80	69	59	48
Per Keg	$13 00	12 50	12 50	12 50	12 50	12 50

BURDEN FRONT AND HIND ASSORTED

Nos.	BFH12	BFH23	BFH34	BFH45	[illegible]	BFH234
Size No.	1 & 2	2 & 3	3 & 4	4 & 5	1, 2 & 3	2, 3 & 4
Approximate No. in Keg	115	9[illegible]	75	64	105	84
Per Keg	$13 10	12 80	12 80	[illegible]	13 00	12 80

100 Pounds in a Keg

MULE SHOES

BURDEN MULE STRAIGHT SIZE

Nos.	BM1	BM2	BM3	BM4	BM5
Size No.	1	2	3	4	5
Weight Each, ounces	10	12	15	19	24
Approximate No. in Keg	155	129	104	85	67
Per Keg	$13 00	12 50	12 50	12 50	12 50

BURDEN MULE ASSORTED SIZES

Nos.	BM12	BM23	BM34	BM45	BM123	BM234
Size No.	1 & 2	2 & 3	3 & 4	4 & 5	1, 2 & 3	2, 3 & 4
Approximate No. in Keg	142	117	96	77	129	106
Per Keg	$13 10	12 80	12 80	12 80	13 00	12 80

100 Pounds in a Keg

HORSE SHOE NAILS

Triumph
TRADE MARK

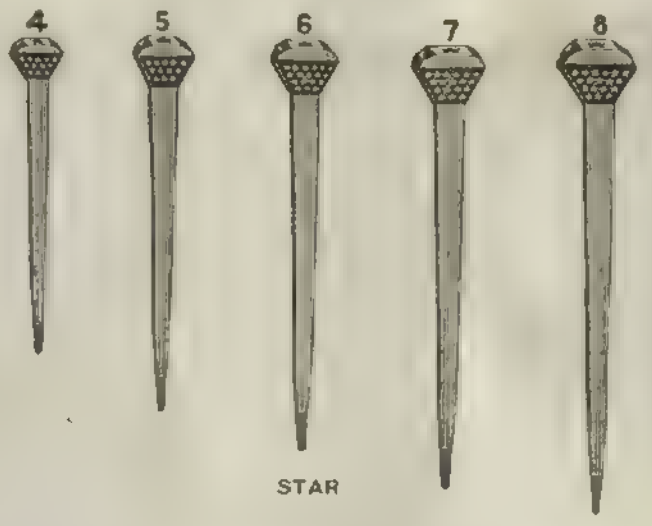
Cuts Full Sizes

★TRIUMPH REGULAR HEADS

Made of Best Swedish Iron, Smooth and Even, Great Tensile Strength, will not split in driving. Never Breaks under the Heads or Crimp in a hardened Hoof, Make a Clean, Smooth Hole in the most Brittle Hoof. This Nail meets the requirements of Exacting Horse Shoers.

Nos.	5	6	7	8
Size No.	5	6	7	8
Length, Inches	2	2 1/16	2 1/8	2 1/16
Number to Lb., About	125	110	100	80
Per Pound	$0 44	40	.36	.36

5 lbs. in a Carton; 25 lbs. in a Box



STAR

Made of Best Norway Iron

REGULAR HEAD

Size, Nos	4	5	6	7	8
Length Inches	1 3/8	2 1/16	2	2 1/16	2 1/16
Number to Lb., About	215	187	145	113	99
Per Pound	$0.80	.40	.40	.40	.40

CITY HEAD

Size, Nos	C5	C6	C7	C8
Length Inches	1 15/16	2 1/16	2 1/16	2 1/16
Number to Lb., About	193	158	127	99
Per Pound	$0.40	.40	.40	.40

5 lbs. in a Carton; 25 lbs. in a Box

MOUND CITY
TRADE MARK

★MOUND CITY

Regular Head

Swedish Iron; a Tough, Well Formed Medium Quality Nail.

Size, Nos	5	6	7	8
Length, Inches	2	2 1/16	2 1/16	2 1/16
No. to Lb., About	160	125	107	95
Per Pound	$0 36	.36	.36	.36

5 lbs. in a Carton; 25 lbs. in a Box

★SUPERIOR

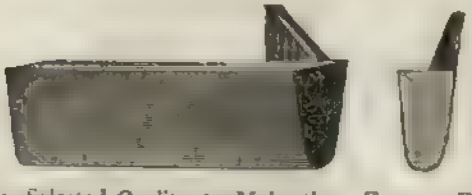
Regular Head, Checkered

Swedish Iron; a Satisfactory Low Grade Nail.

Size, Nos	5	6	7	8
Length, Inches	2	2 1/16	2 1/16	2 1/16
No. to Lb., About	140	135	105	95
Per Pound	$0.29	.29	.29	.29

5 lbs. in a Carton; 25 lbs. in a Box

TOE CALKS



GAUTIER STEEL

Especially Selected Quality to Make them Easy to Weld, and of Long Wear; Rolled to Proper Sizes with Well Defined Edges and Flat Welding Surface; the Nibs are Part of the Rolled Stock and are Formed by Cutting out the Balance of the Metal.

REGULAR OR COUNTRY PATTERN

Nos.	R1	R2	R3	R4	R5	R6
Length, Inches	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4
Width, Inch	5/16	5/16	3/8	1/2	11/16	1
Thickness, Inch	1/8	1/8	1/8	1/8	1/2	1/2
Approx. Number in a Pound	15	12	6	5	4	3
Per 100 Pound, All Sizes						$19.00

BLUNT OR CITY PATTERN

Nos.	C1	C2	C3	C4	C5	C6
Length, Inches	1 1/2	1 3/8	2	2 1/4	2 1/2	2 3/4
Width, Inch	1/2	5/8	3/4	3/4	7/8	15-16
Thickness, Inch	3/8	1/2	1/2	1/2	5/8	9-16
Approx. Number in a Pound	12	7	5	4	3	3
Per 100 Pound, All Sizes						$19.00

25 lbs. in a Box

Allowed In Lots of 10 Boxes or over West of Missouri River and South of Ohio and Outside State of Missouri, 50 cts cwt. frt. allowed.

IRON AND STEEL TOYS
IN ASSORTMENTS

AUTOMOBILE

Enameled Aluminum Finished Body; Bright Red Wheels.

CHARIOT

Jet Black, Enameled Body and Horse; Aluminum Finished Wheels.

COAL CART

Horse and Wagon Enameled Jet Black; Bright Red Wheels.

Per Dozen Assortments

No. 2033—Three Pieces; Average Length 6 inches; Weight per Assortment 6 lbs..... $6.00

One Dozen in a Box

PONY CART

Yellow Enameled Body, Aluminum Finished Wheels and Horse.

GOAT CART

Green Enameled Body; Aluminum Finished Wheels and Goat.

SULKY

Aluminum Finished Frame, Jockey and Horse; Bright Red Wheels.

Per Dozen Assortments

No. 2034—Three Pieces; Average Length 6 inches; Weight per Assortment 6¾ lbs... $6 50

One Dozen in a Box

AUTO FIRE ENGINE

Enameled Jet Black, Gold Decorated, Red Wheels.

AUTO HOOK AND LADDER

Enameled Bright Red, Gold Decorated; Yellow Wheels.

Per Dozen Assortments

No. 2006—Two Pieces; Average Length 5¾ inches; Weight per Assortment 7¾ lbs..... $5 50

One Dozen in a Box; 24 Dozen in a Case; Weight per Case 220 lbs.

IRON AND STEEL TOYS
IN ASSORTMENTS

LIMOUSINE

Enameled Bright Red, Gold Decorated Yellow Wheels.

EXPRESS WAGON

Enameled Red Body, Gold Decorated; Bright Yellow Wheels; Aluminum Finish Horse and Driver.

DRAY

Green Enameled Body, Bright Red Wheels; Aluminum Finished Horse and Driver.

Per Dozen Assortments

No. 2005—Three Pieces; Average Length 6 inches; Weight per Assortment 8¾ lbs..... $24 00

Sixth Dozen of Each Piece Shown Above in a Box, Six Dozen in a Case, Weight Case 125 lbs.

BARREL TRUCK

Enameled Blue Frame; Red Wheels; Jet Black Horse, Detachable.

DRAY

Enameled Red; Bright Yellow Wheels; Jet Black Horse.

ICE WAGON

Yellow Enameled Body; Red Wheels; Black Horse.

Per Dozen Assortments

No. 2017—Three Pieces; Average Length 12 inches; Weight per Assortment 5½ lbs..... $19.20

Sixth Dozen of each Piece shown above in a Box; Weight Case 100 lbs.

Our line embraces everything in hardware and its allied lines—our stock is largest and most complete. We are, therefore, able to give your Mail Orders the prompt and satisfactory service that you expect, and above all to fill your orders complete.

IRON AND STEEL TOYS

Auto Fire Engine; Handsomely Finished; Frame Painted Red; Boiler Painted White with Gold Decorations; Bright Yellow Wheels; Two Detachable Suction Hose, with Bronze Plugs; Nickel Plated Gong; Starting Crank; Detachable Enameled Chauffeur and Engineer.

Per Dozen

No. 2011—Length 11½ inches; Height 7¾ inches; Weight per Dozen, 75 lbs.. ..... **$18 20**

One in a Package

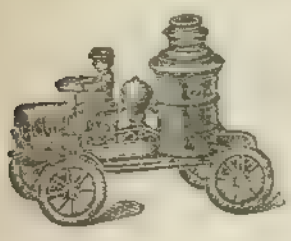
AUTO FIRE ENGINES

Finely Finished, Painted White, Gold Decoration; Red Wheels; Furnished with Blue Color Driver and Nickel Plated Gong.

Per Dozen

No. 2009—Length 8¾ inches; Height 6 inches; Weight each, 3¼ lbs. **$9 00**

Twelfth Dozen in a Box, Three Dozen in a Case; Weight per Case 150 lbs.



AUTO FIRE ENGINES

Finely Finished in Bright Colors; Painted Red with Gold Decorations, Aluminum Finish Driver; Yellow Wheels.

Per Dozen

No. 2008—Length 7 inches; Height 4¾ inches; Weight Each, 4¼ lbs **$4 50**

Quarter Dozen in a Box, Six Dozen in a Case; Weight per Case 140 lbs.

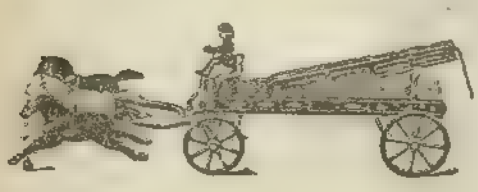
FIRE PATROLS

Finely Finished in Bright Colors; Painted Red with Gold Decorations; Bright Yellow Wheels; Two Horses; Furnished with Three Firemen and One Driver.

Per Dozen

No. 2032—Length 14 inches, Height 4½ inches; Weight Each, 3¼ lbs. **$18 00**

Twelfth Dozen in a Box; Three Dozen in a Case, Weight 130 lbs.



Tower Hose Fire Wagon; Red Enameled Truck; with White Enameled Folding Tower; Yellow Enameled Wheels; Horses Enameled Black and White; Removable Driver.

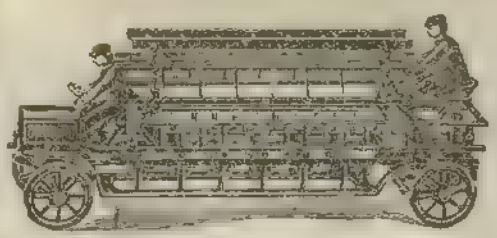
Cut Shows Three Horses—Only Two Furnished.

Per Dozen

No. 1318—Length 12½ inches; Height 4¾ inches; Height with Tower Erect, 8 inches; Weight per Dozen, 20 lbs.. ..... **$9.00**

Quarter Dozen in a Package

IRON AND STEEL TOYS



HOOK AND LADDER TRUCKS

Handsomely Finished. Frame Painted Red with Gold Decorations; Bright Yellow Wheels. Three Yellow Painted Ladders; Two 10½ inches Long and One 6½ inches Long; Detachable Chauffeur and Tillerman; Nickel Plated Gong.

Per Dozen

No. 2010—Length 14½ inches; Height 6 inches; Weight Each, 3½ lbs. **$9 00**

Twelfth Dozen in a Box, Three Dozen in a Case; Weight per Case, 150 lbs

No. 2012—Length 17 inches; Height 7 inches; Weight Each, 5½ lbs. **33 00**

Twelfth Dozen in a Box; Two Dozen in a Case; Weight per Case 180 lbs.

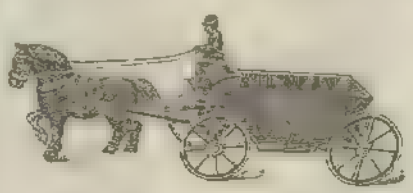
COAL TRUCKS

Finely Finished; Enameled Jet Black Body, Gold Decorated; Bright Red Enameled Wheels; Aluminum Finished Driver.

Per Dozen

No. 2007—Length 6¾ inches; Height 2¾ inches; Weight Each, 1¼ lbs. **$5 50**

Quarter Dozen in a Box, Six Dozen in a Case; Weight per Case, 150 lbs.



DUMP WAGONS

Bright Red Painted Body; Gold Decorated; Bright Yellow Wheels; Lever Dump at Right Side of Driver's Seat; Aluminum Finish Horse.

Per Dozen

No. 2029—Fine Bright Finish Red Enameled Body; Gold Decorated; Bright Yellow Wheels; Lever Dump at Right Side of Seat, Jet Black Mule; Harness Outlined in Gilt; Furnished with a Bronzed Finish Pick and Shovel; Length 13½ inches, Weight Each, 2¾ lbs.. ..... **$12 00**

Twelfth Dozen in a Box

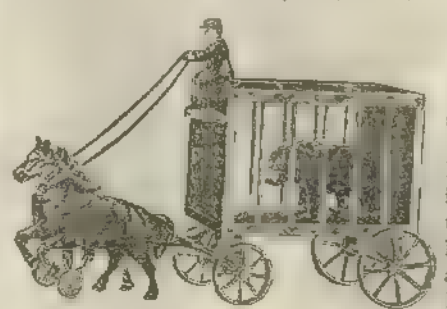
MULE TRUCK WAGONS

Red and Blue Enameled Body; Bright Yellow Wheels; Jet Black Mule with Harness Outlined in Gilt; Furnished with Load of Four Barrels.

Per Dozen

No. 2018—Length 16 inches; Weight Each, 2¾ lbs..... **$13.50**

Twelfth Dozen in a Box; Three Dozen in a Case; Weight 115 lbs.



CIRCUS WAGONS

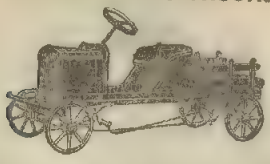
An attractive Toy, Substantially Made of Hardwood with Steel Supports and Iron Wheels; the Woodwork is Finished in Bright Red and the Wheels are Aluminum Finish; Two Jet Black Horses and Gold Bronzed Cast Iron Bear.

Per Dozen

No. 1132—Length of Wagon 8½ inches; Height 7 inches; Width 5 inches; Length Over All, 14 inches; Weight Each, 4½ lbs.; Weight per Dozen, 56 lbs **$16 00**

Twelfth Dozen in a Box

JUVENILE AUTO TRUCKS

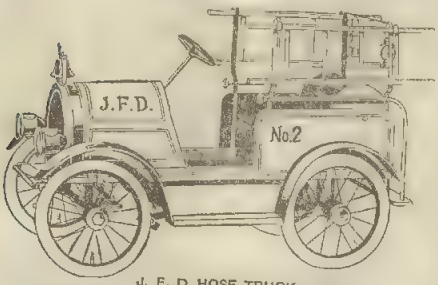


This Utility Truck is made for Service as well as for Pleasure. Will Carry 500 lbs. weight. Painted and Enameled in Red, with Stripes and Trimmings to Match. Mahogany Dash and 12 inch Steering Wheel. Adjustable Seat; Hard Heavy Wood Load Mid-table Iron Wheels; Extra Heavy Back Axle and Steering Knuckles; Hood is Made of High Grade Steel, Equipped with Steel Fender.

Each

No. 100—Length 56 inches; Width 21 inches; Height of Seat 19 inches; Width of Seat 12 inches; Height of Hood 20 inches; Height of Side Rails 12 inches; Length of Bed 25 inches; Width of Bed, 12 inches; Weight packed 72 lbs..... **$16.50**

One in a Crate.



J. F. D. HOSE TRUCK

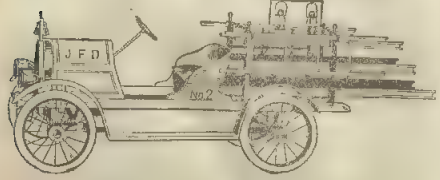
This Automobile Fire Truck is Built Exactly in Keeping with the Modern Fire Trucks, Such as used in the Largest Cities and is the Latest development of the Juvenile Vehicle Makers. The Body is made of Extra Heavy Sheet Steel, Finely Finished in Bright Red with Lemon Yellow Hub Caps; Wood Pole Steering Wheel; Upholstered Seat; Equipment Contains Two Ladders, Metal Box, Two Lanterns, Rubber Hose Reel, Bumper, Detachable Tires, Size 12x1¾ inches; Rubber Bearing Wheels and Crown Fenders.

Prices do not include Lamps and Horn. Each

✣ **No. 2HT**—Length 44½ inches, Width 13 inches, without Lamps and Horn Weight Packed 110 lbs..... **$57.00**

✣ **No. 2HTS**—Same as above, except fitted with ¾ inch Solid Rubber Tires..... **40 00**

One in Crate



J. F. D. HOOK AND LADDER TRUCK

Same as above, except equipped with Five Extension Ladders and does not have hose reel.

Prices do not include Lamps and Horn. Each

✣ **No. 20HL**—Length 56 inches, width 13 inches, without Lamps and Horn Weight Packed 115 lbs..... **$60 00**

✣ **No. 20HLS**—Same as No. 20HL, except Fitted with ¾ inch Solid Rubber Tires..... **42.00**

One in a Crate

JUVENILE AUTOMOBILE LAMPS

OIL LAMPS

An Excellent Oil Lamp for Juvenile Automobiles, Have the Same Appearance as those used on Large Automobiles; Made of Sheet Steel, Polished; 3 inch Lens, which throws a penetrating Ray.

Each

No. EAL—4x4½ inches; Weight ½ lb..... **$3.30**

One in a Box

JUVENILE AUTOMOBILE HORNS

No. 3BH—Bell 2½ inches in Diameter; Nickel Plated over Spun Brass; Metal Reed; Length Over All 7½ inches; Diameter of Bulb 1⅞ inches; Weight 5 ozs..... **$1.30** Each

Twelve in a Box

AUTOCRAT DOUBLE TONE

Made of Spun Brass, Nickel Plated and Highly Polished; Two Metal Reeds.

Each

No. 4BH—Diameter of Bells 1⅝ and 1¼ inches; Diameter of Bulb 2½ inches; Length over all 11 inches; Nickel Plated Brass Clamps; Weight Each 11 ozs..... **$2.80**

Twelve in a Box

HAND ACTUATED

A miniature Automobile Horn of Latest Design; Every Part Interchangeable; Emits a Loud Sound at the Slightest Touch of the Plunger.

Each

No. B—Size Over All 6 inches, Finish All Black Enamel; Weight 1 lb. **$2.70**

One in a Box

VELOCIPEDES

★RUGBY TUBULAR FRAME

Best Quality Shelby Seamless Tubing Brazed Joints

Ball Bearing Wheels; Rims, Enameled and Striped

Bicycle Hubs Spokes and Nipples. Nickel Plated

Forward Extension Bicycle Handle Bar, Nickel Plated Wound Leather Grips.

Best Quality Bicycle Rat Trap Pedals

Best Quality Brown-Shape Bicycle Saddle, Padded Seat Post is Clamped by Expander Bolt; Steel Casting Holds Seat Post. The Frame is not Weakened, as is the Case when the Tubing is Cut Away for the Seat Post.

Frame is Finished in **Black Enamel, Gold Striped; Rubber Cushion Tires.**

Each

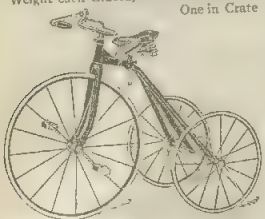
No. 81—16 inch Front and 10 inch Rear Wheels; ⅝ inch Tires; Weight each, Crated, 30 lbs. $23 00

No. 82—20 inch Front and 14 inch Rear Wheels; ¾ inch Tires; Weight Each, Crated, 41 lbs. 26 00

No. 83—24 inch Front and 18 inch Rear Wheels; ¾ inch Tires; Weight each Crated, 44 lbs. 32.50

One in Crate

★DIAMOND SPECIAL



This Velocipede is High Class in Every Respect. Made Throughout of the Best Materials. Has Large **New Idea Barrel Hubs,** Rear Wheels fitted with Brass Plated Hub Caps. **Velocipede Rat Trap Pedals,** Bicycle Saddle and Detachable Adjustable Nickel Plated Handle Bar; Wheels and Trimmings Tinned.

Fitted with ¾ inch Front and ⅝ inch Rear Rubber Tires

Finished in Maroon Enamel, Handsomely Gold Striped.

Each

No. 111—16 inch Front, 12 inch Rear Wheels; Weight each Crated, 30 lbs. $12 30

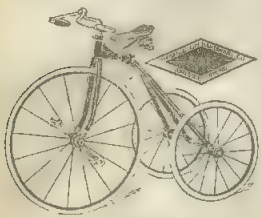
No. 112—20 inch Front, 14 inch Rear Wheels; Weight each Crated, 41 lbs. 12.70

No. 113—24 inch Front Wheel, 16 inch Rear Wheels; Weight each Crated, 40 lbs. 13.30

One in Crate

★NORLEIGH DIAMOND

Ball Bearing



This Velocipede is made up in Bicycle Style; Full Ball Bearing **Bicycle Cranks; Rat Trap Pedals;** Brown Pattern Bicycle Saddle, Detachable Adjustable Nickel Plated Handle Bar; Wheels Maroon Enameled; All Trimmings Nickel Plated.

Fitted with ¾ inch Front and ¾ inch Rear Rubber Tires.

Finished in Maroon Enamel and Handsomely Gold Striped.

Each.

No. 21—16 inch Front, 12 inch Rear Wheels; Weight, Crated, 24 lbs. $19.50

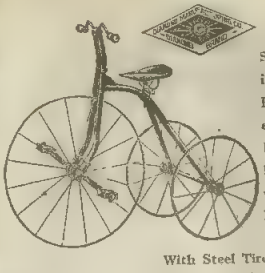
No. 22—20 inch Front, 14 inch Rear Wheels; Weight, Crated, 38 lbs. 20.00

No. 23—24 inch Front, 16 inch Rear Wheels; Weight, Crated, 50 lbs. 20.50

One in Crate

VELOCIPEDES

★DIAMOND



Full Leather Seat, well Shaped and Adjustable; Reinforced One Piece Front Fork with Patent Ring Fasteners; Rigid Steel Frame; Black Enameled; Extra Heavy Re-Lined Wheel, with Extra large Outer Bearing Steel Hub. Adjustable Handle Bar. Spring Seat

With Steel Tires

Nos.	419	420	421	422
Wheels, in.	14 and 10	16 and 12	20 and 14	24 and 16
Leg Measure, in.	19	20	22	24
Weight Each, lbs.	12	14	16	18
Weight Crate, lbs.	90	95	110	120
Each	$4.20	4.60	5.30	6.20

Six in a Crate

With Rubber Tires

Nos.	419½	420½	421½	422½
Wheels, in.	14 and 10	16 and 12	20 and 14	24 and 16
Leg Measure, in.	19	20	22	24
Weight Each, lbs	12	14	16	18
Weight Crate, lbs	90	95	110	120
Each	$6.60	7.20	7.70	8.50

Six in a Crate

MOUND CITY

TRADE MARK

★MOUND CITY

Rigid Steel Frame, Black Enameled; Wheels are **Heavily Enameled, With Steel Tires.** Stationary Handle Bars.

With Steel Tires

Nos.	4190	4200	4210	4220
Wheels, in.	14 and 10	16 and 12	20 and 14	24 and 16
Leg Measure, in.	19	20	22	24
Weight Each, lbs.	12	14	16	18
Weight Crate, lbs	90	95	110	120
Each	$4.00	4.50	5.00	6.00

Six in a Crate

With Rubber Tires

Nos.	4190½	4200½	4210½	4220½
Wheels, in.	14 and 10	16 and 12	20 and 14	24 and 16
Leg Measure, in.	19	20	22	24
Weight Each, lbs.	12	14	16	18
Weight Crate, lbs.	90	95	110	120
Each	$5.70	6 00	6.70	7.70

Six in Crate

NOTE—Weights Given are Approximate, but they will not Vary More than 3 lbs. More or Less.

Ransome-Leach Company

Representing a new service for contractors and builders. A combination of great importance to contractors and builders marking a new era in the contractors equipment field has been completed in the consolidation of the Ransome Concrete Machinery Company and the Oshkosh Manufacturing Company.

This new organization, known as the Ransome-Leach Company, through economic effort in manufacturing and marketing offers a service that has a far reaching significance for both contractor and dealer. A service that has hitherto been unapproached in the contractors world.

Ransome-Leach Company

NEW YORK - 115 BROADWAY

OSHKOSH, WISCONSIN

The TAYLOR

PORTABLE STEEL DERRICK with Gondola Car Attachment for HANDLING PIPE or other heavy material from gondola cars.

Catalog illustrating the Taylor Portable Steel Derricks furnished on application.

TAYLOR PORTABLE STEEL DERRICK CO.
213 W. Grand Ave., Chicago, Ill.

RUSSELL SNOW PLOW

Adjustable and All-Steel

Delivered at any railroad station, freight paid

at $39.75

Adjustable widths 4 ft., 4½ ft., 5 ft., 5½ ft. and 6 ft. adjustments made by two bolts (or pins) hinged at front and on both sides; rigid and strong; hard wood handles.
This is the latest of our Line of Road Working and Earth Handling Machinery. Send for Catalog.

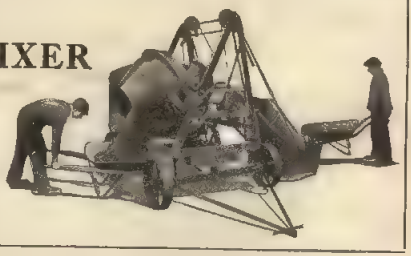
Russell Grader Mfg. Co. - MINNEAPOLIS - MINNESOTA
Representatives in Principal Cities

JAEGER CONCRETE MIXER

Used by all progressive municipalities and contractors.
Is your town progressive?

WRITE FOR DATA

The Jaeger Machine Co.
215 West Rich Street
COLUMBUS .·. .·. .·. OHIO

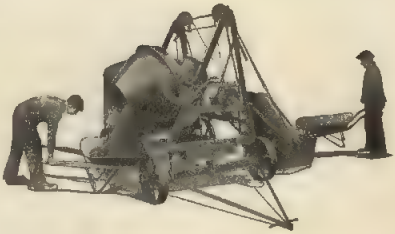


Jaeger Concrete Mixer

Used by all progressive municipalities and contractors.

Is your town progressive?

Write for Data



THE JAEGER MACHINE CO.

215 West Rich Street :: Columbus, Ohio

WHO SAID "BRICKS?"

We are in the heart of the first quality shale lands and we are planning to make brick for every conceivable purpose.

We invite correspondence from municipal officials or anybody else seeking information about brick, conduits or building brick.

The Schuylkill Valley Vitrified Products Co.

Oaks, Montgomery County, Pa.

The TAYLOR

PORTABLE STEEL DERRICK with Gondola Car Attachment for HANDLING PIPE or other heavy material from gondola cars.

Catalog illustrating the Taylor Portable Steel Derricks furnished on application.

TAYLOR PORTABLE STEEL DERRICK CO.
213 W. Grand Ave., Chicago, Ill.

*JERSEY ICE CREAM FREEZERS

DOUBLE ACTION

Showing Hinged Cover and Locking Device

The Can and Dasher Revolve in Opposite Directions; Automatic Twin Scrapers.

Enclosed Gearing

The Revolving Dasher Forces the Cream from the Center to the Sides of the Can, where, as it Freezes, it is Removed by the Scrapers.

Extra Heavy, XXXX Tin Can, with **Drawn Steel Bottom;** They will not Leak, and the Bottom will not Break or Fall Out of the Body of Can; Not Liable to Injury, as are Tin Plate or Cast Iron Bottoms.

The Top of Can is Strongly Wired and Turned Over, while the Lower Part is Made to Fit Over and Under the Drawn Steel Bottom by Machinery; The Cans are the Strongest Made, and are not Liable to Collapse or to be Crushed Out of Shape.

Sectional View Showing Interior Construction

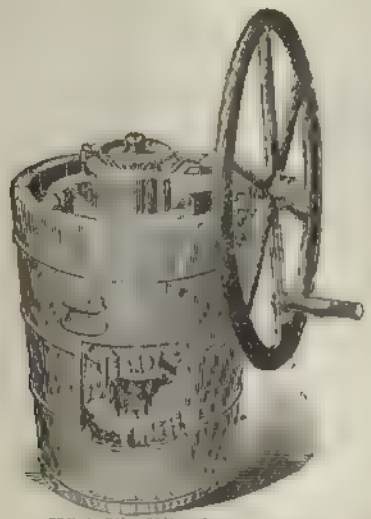
The Gears are Completely Covered so that Neither Ice nor Salt Can Get in Cogs Nor the Fingers be Accidentally Caught in Them. **The Hinged Cover** Can be Raised Out of the Way Without Removing it From the Tub. **The Locking Device** is Controlled by a Single Cam, is Simpler and Easier to Operate than Any Other, and Locks the Cover Immovably.

All Inside Parts Coming in Contact with the Cream are **Heavily Tinned;** all Outside Parts are Smoothly and **Heavily Galvanized;** The Ice Space is Arranged to Use The Least Possible Amount of Ice to Freeze in the Least Possible Time. Selected White Pine Tubs, with Electrically Welded Galvanized Steel Wire Hoops, which Will not Fall Off Nor Break.

Nos	1	2	3	4	6	8	10	12	14
Quarts	1	2	3	4	6	8	10	12	14
Weight, Lbs	7	10	11	14	18	24	30	31	36
Each	$2 00	3.10	3.60	4.40	5.60	7.20	9.30	11 50	13 50

Loose Stock; Wrapped in Heavy Paper

GIANT JERSEY



With Fly Wheel

For Use of Confectioners, Ice Cream Parlors, Soda Founts, Hotels, Restaurants and Boarding Houses.

The Construction is Similar to the Freezers Above, but Heavier and Stronger; The Gear and Shaft are Connected by Clutches which Engage or Disengage by Simply Raising and Lowering the Cross Bar; The Fly Wheel or Pulley Remains Stationary at the Side of the Tub.

The Cross Bar is Made to Swing Up Out of the Way to Take Out Cream or can be Entirely Removed.

The Cans are made of **Heavy Tinned Steel** with Tinned Malleable Iron Bottom; The Tub is Made of Selected White Pine with Electrically Welded Steel Wire Hoops, which will not drop off or break.

With Power Pulley

WITH CRANK
Extra Heavy Construction

Nos.	114C	118C	124C
Quarts	14	18	24
Weight, Lbs.	48	68	76
Each	$15 50	21 00	25 50

Loose

WITH FLY WHEEL
Interchanges with Crank

Nos	114W	118W	124W	132W
Quarts	14	18	24	32
Wheel, Inches	18	21	24	30
Weight, Lbs.	68	96	110	140
Each	$20 00	26 50	32 00	37 50

Loose

WITH POWER PULLEY
With Extra Strong Shaft Bearings

Nos	114P	118P	124P	132P
Quarts	14	18	24	32
Pulley Inches	14x3	16x4	16x4	16x4
Weight, Lbs.	62	82	95	108
Each	$25.50	31 00	38.50	44 00

Loose

✣ICE CREAM CABINETS

Used at Ice Cream Parlors, Soda Fountains, Candy Shops, Hotels and Restaurants for Convenience and Economy in Serving and Selling Ice Cream at Retail

They will Keep Ice Cream Uniformly Hard from 24 to 36 Hours with One Packing of Ice (See Foot note). They are Small, Light of Weight and Most Durable.

Construction

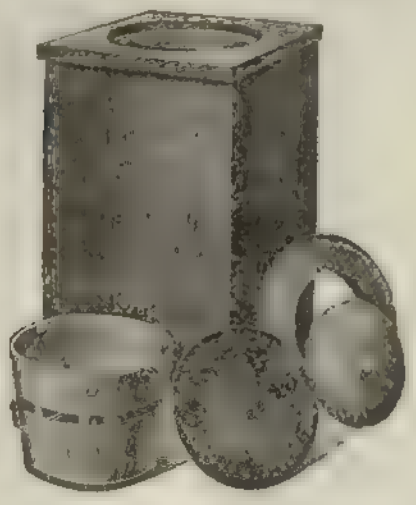
These Cabinets are Constructed **Entirely of Wood,** California Redwood in Solid Pieces being Used for the Outer Case, and Virginia White Cedar for the Circular Independent Compartments. The Compartments are Separated from the Outer Walls, and from Each Other, by Granulated Cork. **Drain Pipes are of Heavy Brass Tubing,** and are Secured by Brass Lock Nuts.

The Cork Insulation Extends Along the Bottom, as well as at the Sides and Ends of the Cabinet.

The Redwood Outer Casing is Light and Very Porous, and the Outside is Treated with a Heavy Coat of Penetrating Varnish, while the Cedar Inner Wall is Covered on the Inside with a Heavy Coating of White Lead, Forming an Impenetrable Wall of Dead Air Space Between.

Sides and Bottom are Each Made of One Piece of Wood and Have No Joints or Panels to Swell, Crack or Become Loosened.

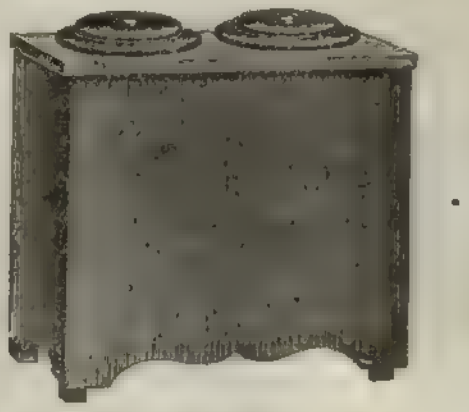
Sold Without Cans. Cans Priced Extra at Bottom of Page



✣ ONE COMPARTMENT CABINETS
Without Serving Shelf

Capacity	Dimensions	Weight	Each Without Cans
No. 108—1-8 qt. Can	16½x16½x29 inches	80 lbs.	$20 50
No. 112—1-12 qt. Can	18 x 18 x 30 inches	60 lbs	25 00
No. 120—1-20 qt. Can	19 x 19 x 32 inches	75 lbs.	33 00
No. 140—1-40 qt. Can	27½x23½x36 inches	110 lbs.	48 00
If Serving Shelf is Desired, Add to Price			2 70

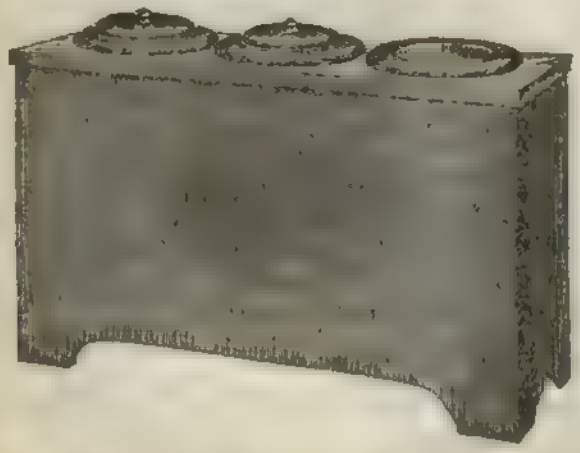
One in a Crate



✣ TWO COMPARTMENT CABINETS
Without Serving Shelf

Capacity	Dimensions	Weight	Each Without Cans
No. 208—2-8 qt. Cans	31x17½x27 inches	85 lbs.	$33.00
No. 212—2-12 qt. Cans	34x17½x30 inches	110 lbs.	[illegible]
No. 220—2-20 qt. Cans	35x18½x32 inches	140 lbs.	52 00
No. 240—2-40 qt. Cans	46x23½x36 inches	195 lbs.	74 00
If Serving Shelf is Desired, Add to Price			3.70

One in a Crate



✣ THREE COMPARTMENT CABINETS
Without Serving Shelf

Capacity	Dimensions	Weight	Each Without Cans
No. 308—3-8 qt. Cans	45 x 16 x 27 inches	105 lbs.	$48.00
No. 312—3-12 qt. Cans	49x17½x30 inches	165 lbs.	62.00
No. 320—3-20 qt. Cans	52x18½x32 inches	180 lbs.	74 00
No. 340—3-40 qt. Cans	63x23½x36 inches	265 lbs.	74.00
If Serving Shelf is Desired, Add to Price			5.00

One in a Crate

✣CANS FOR ICE CREAM CABINETS

Capacity, Quarts	8	12	20
Weight Each, lbs.	13¾	19¼	25½
Porcelain Lined Iron, Each	$4.00	6.30	7.50
		Loose	

NOTE When Ice Cream Becomes Soft it Loses Nearly Half of its Bulk, and Selling Such Goods Entails an Equal Amount of Loss to the Caterer Keeping the Cream Uniformly Hard will Yield a Very Large Per Cent More Profit than when Serving Half Soft or Partially Melted.

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, St. Louis

FOR *SAFE* TREE SURGERY—

for Tree Surgery that is scientifically accurate and mechanically perfect—for Tree Surgery that saves trees without guessing and experimenting—come to headquarters.

The Davey Tree Expert Co., Elm St., Kent, Ohio
Branch offices with telephone connections: 225 Fifth Ave., New York. 2017 Land Title Bldg., Philadelphia. 450 McCormick Bldg., Chicago.
Permanent representatives in all principal cities.

Davey Tree Surgeons

A BETTER LAWN

This little book tells how to have a perfect lawn. It describes in detail the

FULLER & JOHNSON MOTOR LAWN MOWER

which combines flexibility with capacity and eliminates the "push." Designed for Parks, Cemeteries and Private Estates. Write for this book.

MANUFACTURERS DISTRIBUTING CO.
469 FULLERTON BLDG. ST. LOUIS, MO.

A SWING FOR PLAYGROUNDS

made strong and durable with heavy steel springs which makes swinging a pleasure as well as exercise for the children. Write for booklet.

NOLL BROTHERS
Benches and Swings
BAUSMAN, PA.

Unseen Service

We appreciate the service to society of utilities that are visible—things like automobiles, trolley cars, etc., etc. But how many think of the infinite mileage of underground piping upon the service of which we all are so dependent? Under the streets of many up-to-date cities ORANGEBURG Fibre Conduit performs its faithful, unseen service—unthought of by the public at large, but fully appreciated by the companies whose wires and cables it protects.

The *quality* of this service is the explanation of the great *quantity* of ORANGEBURG *Fibre Conduit* now in use.

BOOK D

THE FIBRE CONDUIT COMPANY
ORANGEBURG, N. Y.

New York Boston Chicago San Francisco

MINERS LAMPS
ACETYLENE GAS

Suitable for use by Miners, Surveyors, Mining Engineers and Superintendents. Operated at less Expense than Candle or Oil Lamp; gives a far better Light.

JUSTRITE

New Lever Feed.
Produces a Light of 16.7 Candle Power.
New "Matchless" Lighter Attachment.
Guaranteed Perfect in Material and Workmanship.

Made in Two Parts. Water Reservoir and Carbide Container, drawn from Seamless Brass.

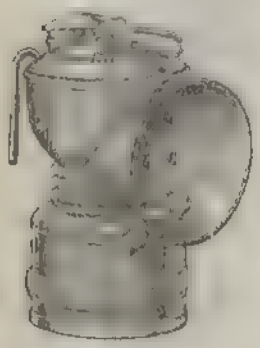
New Style Water Feed. A Valve enclosed in a ¼ inch Tube, so constructed that it increases or decreases the supply of Water. The Valve is operated by a Lever sliding back and forth over Notches, and held firmly in place by a small Spring. Easy to Operate and keep Clean.

Per Dozen

No. 57—Polished, Drawn Brass Lamp; Equipped with Patent Lighter Reflector 2¼ in. in Diameter; permanently attached to Lamp; Height of Lamp over all 3½ inches; Diameter 2 in.; Weight per Dozen about 5 lbs. **$22.00**
Extra Carbide Container with each Lamp
Twelfth Dozen in a Carton

No. 407—Same as No. 57 but without Extra Container; Weight per Dozen about 4½ lbs. **18.00**
Twelfth Dozen in a Box

No. 407C—Extra Containers for No. 407 Lamp, Weight per Dozen about ½ lb. **4.00**
Twelfth Dozen in a Box



BALDWIN

With Bottom Valve Feed

Gives a Clear, Clean Light; Simple in Construction and Operation.

Lacquered Spun Brass with Hook and Brace for attaching to Cap. Equipped with Removable Auto Lighter Reflectors which eliminate the necessity of carrying Matches.

Per Dozen

No. 125C—New Style Water Regulator; with Auto-Lighter Reflector, Deep Carbide Container, Low Burner; Height 6½ inches; Diameter 2 inches; Weight per Dozen 4½ lbs. **$22.00**
One in a Carton.

Note—An Extra Carbide Container is included with Baldwin Lamps, No. 125C. Twelfth Dozen in a Box

BALDWIN

Lacquered Spun Brass with Hook for attaching to Cap with Automatic Water Feed; Removable Reflector; Burner Furnished with a Brass Mounting on the Reflector to take a Wind Cap when desired.

Will Burn Three Hours on One Filling.

Per Dozen

No. 132—New Style Water Regulator with Deep Carbide Container; Low Burner; Height 6 inches, Diameter 2 inches; Weight per Dozen 4¾ lbs. **$22.00**

Note—An Extra Carbide Container is included with Baldwin Lamp No. 132.

No. 132LC—Same as above without Extra Container; Weight per Dozen 4 lbs. **20.00**
One in a Carton

CAMP LAMPS
ACETYLENE GAS

With New Style Matchless Lighting Attachment

Especially intended for use by Sportsmen for Camping, although they will also be found suitable for Superintendents, Engineers, Surveyors, Mine Inspectors, etc.

JUSTRITE
Small Size—HAND

Per Dozen

No. 100—Drawn Brass; Nickel Plated and Highly Polished; 2½ inch Nickel Plated Reflector with Sparker Attachment, equipped with Folding Handles and Hook, also No. 76 Pocket Carbide Can and Extra Repair Parts; Height 3⅛ ins; Diameter 2 in; Burns 3 hours with one filling Weight per Dozen 5 lbs.... **$18.00**

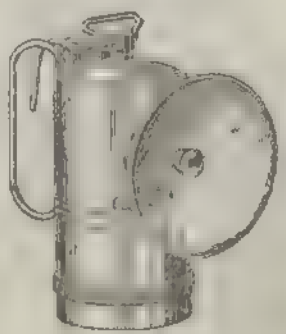
Twelfth Dozen in a Wooden Box

JUSTRITE
Large Size—HAND

Per Dozen

No. 95—Drawn Brass; Nickel Plated and Highly Polished 3 inch Nickel Plated Reflector with Sparker Attachment; equipped with Large Hook and Folding Handles, also No. 76 Pocket Carbide Can; Burns Five hours on one filling; Height 4 inches; Diameter 2¼ inches; Wt. per Dozen 7 lbs. **$60 00**

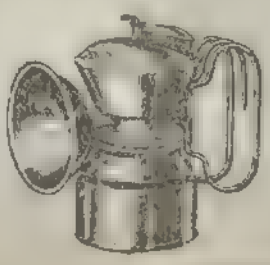
Twelfth Dozen in a Wooden Box



Per Dozen

No. 160—Brass, Highly Polished and Nickel Plated Finish, Equipped with Hinged Handles and Hook, and Furnished with a 3⅛ inch Reflector, Self Lighter, and Wind Shield. Also Equipped with new Water Feed to Hold a Steady Flame and an Extra Container, Height 5½ inches, Diameter 2¼ inches; Weight per Dozen 12 lbs. **$45 00**

Twelfth Dozen in a Box



Per Dozen

No. 29S—Polished Brass with Nickel Plated Finish, Complete with 2¼ inch Nickel Plated Reflector, Equipped with Hook and Handles; Height over all 3⅜ ins. Diameter 2 ins. Burns Three hours with One Filling; Weight per Dozen 5¼ lbs. **$18.00**

Twelfth Dozen in a Wooden Box

CONCRETE PICKS

★DIAMOND EDGE

One Chisel and One Diamond Point; Adze Eye

Blue Painted Body; Polished Points; Highest Grade Crucible Steel Points, Oil Tempered; Soft Steel Body; Punched Eye. Per Dozen

No. DECX9—Weight 9 lbs.: Length 27 inches.. ...$27 00

Two Dozen in a Case; Weight per Case 2[illegible] lbs.

★DIAMOND EDGE

Diamond Pointed at Each End; Adze Eye.

Blue Painted Body; Polished Points; Highest Grade Crucible Steel Points; Oil Tempered; Soft Steel Body; Punched Eye.

Per Dozen

No. DEC9—Weight 9 lbs; Length 27 inches $27 00

Two Dozen in a Case; Weight per Case 2[illegible] lbs.

POLL PICKS

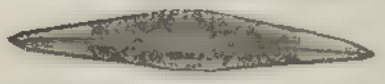
STANDARD

Adze Eye; Soft Steel Body; Hardened Poll; Crucible Steel, Oil Tempered Point; Oil Finish.

Nos.	1	2	3	4	5
Wt., lbs.	3½	4	4½	5	6
Length, inches	[illegible]	14½	[illegible]	17	19
Wt. Case, lbs	[illegible]	110	120	146	160
Per Dozen	$15 00	16 00	17 00	18.00	20.00

Two Dozen in a Case

QUARRY OR STONE PICKS



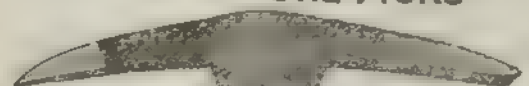
STANDARD

Oval Eye; Cast Steel, Tempered Point; Oil Finish

Weights Assorted, lbs.	6 to 7	7 to 8
Length, inches	[illegible]	17
Weight per Case, lbs	[illegible]	[illegible]
Per Dozen	$21 00	22 00

Two Dozen in a Case

ORE PICKS



STANDARD

Cast Steel, Oil [illegible] Diamond Point.

Weights Assorted, lbs.	6 to 7	7 to 8
Length, inches	18 to 20	20 to 22
Weight per Case, lbs	[illegible]	[illegible]
Per Dozen	$15 50	16 50

Two Dozen in a Case.

MILL PICKS

★DIAMOND EDGE

For Dressing Mill Stones.

Highest Grade Crucible Steel; Hardened and Tempered Bits; Carefully Ground; Correctly Balanced. Per Dozen

No. DE2½—Weight 2½ lbs.; Length 10¾ inches; Width of Bit 1¼ inches; Weight per Dozen Boxed 32 lbs.. ...$21 00

Half Dozen in a Box

PROSPECTING PICKS

Adze Eye; Octagon Poll, Solid Crucible Cast Steel; Full Polished; Oil Tempered Point; Hardened Head; Selected Second Growth Polished Hickory Handle.

★DIAMOND EDGE

Nos.	DE1	DE2
Weight Less Handle, Ozs.	16	24
Length, Inches	13	13
Weight per Dozen, Lbs.	22	24
Per Dozen	$21.50	23.00

Half Dozen in a Box

COAL MINING PICKS

★DIAMOND EDGE

No. DESC

SHORT EAR, CUTTING

Regular Pattern; Painted Black; Average Length 15 to 16 inches; Highest Grade Crucible Cast Steel Points; Carefully Hardened and Tempered; Soft Steel Body; Punched Eye; Perfectly Balanced.

Wt. Lbs.	2½	2¾	3	3¼	3½
Per Doz.	$12.00	12.00	12.00	12.00	12.00

★DIAMOND EDGE

No. DELC

LONG EAR, CUTTING

Regular Pattern; Painted Black; Average Length 15 to 16 inches. Highest Grade Crucible Cast Steel Points; Carefully Hardened and Tempered; Soft Steel Body; Punched Eye; Perfectly Balanced.

Wt. Lbs	2½	2¾	3	3¼
Per Doz.	$12.50	12.50	12.50	12.50

BEALL BROS. "ALTON"

No. BSC

SHORT EAR, CUTTING

Regular Pattern; Painted Black; Regular Length 15 to 16 inches; Soft Steel Body; Crucible Cast Steel Points, Carefully Tempered; Perfectly Balanced and Thoroughly Tested, Each Tool is Fully Warranted and Bears a Label of Guarantee.

Wt., Lbs	2½	2¾	3	3¼	3½	3¾	4
Per Doz.	$12.00	12.00	12.00	12.00	12.00	12.00	12.00

BEALL BROS. "ALTON"

No. BLC

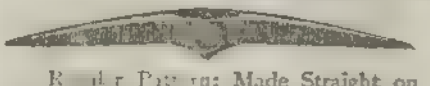
LONG EAR, CUTTING

Regular Pattern; Painted Black; Regular Length 15 to 16 inches; Soft Steel Body; Crucible Cast Steel Points, Carefully Tempered; Perfectly Balanced and Thoroughly Tested; Each Tool is Fully Warranted and Bears a Label of Guarantee.

Wt., Lbs.	2½	2¾	3	3¼	3½
Per Doz..	$12.50	12.50	12.50	12.50	12.50

All Above, Loose

MINING PICKS



★DIAMOND EDGE

No. DESM

SHORT EAR

Regular Pattern; Made Straight on Under Side; Painted Black; Average Length 15 to 17 inches; Crucible Cast Steel Points; Hardened and Tempered; Soft Steel Body; Punched Eye.

Wt Lbs.	1½	1¾	2	2¼	2½	3
Per Doz.	$12.00	12.00	12.00	12.00	12.00	12.00

★DIAMOND EDGE

No. DELM

LONG EAR

Regular Pattern; Made Straight on Under Side; Painted Black; Average Length 15 to 17 inches; Crucible Cast Steel Points, Hardened and Tempered; Soft Steel Body; Punched Eye.

Wt. Lbs.	1½	1¾	2	2¼	2½
Per Doz.	$12.50	12.50	12.50	12.50	12.50

BEALL BROS. "ALTON"

No. BSM

SHORT EAR

Regular Pattern; Painted Black; Regular Length 15 to 16 inches; Soft Steel Body, Crucible Cast Steel Points, Carefully Tempered, Perfectly Balanced and Thoroughly Tested; Each Tool is Fully Warranted and Bears a Label of Guarantee.

Wt., Lbs.	1½	1¾	2	2¼	2½
Per Doz..	$12.00	12.00	12.00	12.00	12.00

BEALL BROS. "ALTON"

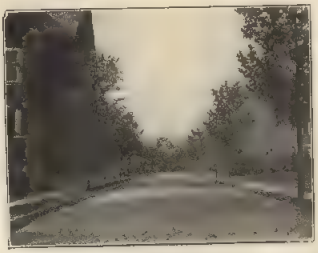
No. BLM

LONG EAR

Regular Pattern; Painted Black; Regular Length 15 to 16 inches; Soft Steel Body; Crucible Cast Steel Points, Carefully Tempered; Perfectly Balanced and Thoroughly Tested; Each Tool is Fully Warranted and Bears a Label of Guarantee.

Wt., Lbs.	1½	1¾	2	2¼	2½
Per Doz.	$12.50	12.50	12.50	12.50	12.50

All Above, Loose



GOOD ROADS AT SMALL COST

SOLVAY is a remarkably satisfactory and economical road-binder. Its effects are immediate and lasting. It quickly incorporates with the road bed, hardens the surface and keeps it free from ruts, weeds and dust. It is simple to apply, and easy to maintain. Its application need not interfere with traffic.

SOLVAY Granulated **Calcium Chloride**

is a clean chemical salt. It is odorless, and will not "track" or ravel. It has many advantages and no objectionable features. Its durability, its economy of material and labor—the reduction it makes in the cost of upkeep, are extremely important to those who are seeking to establish better roads at small cost.

All interested in good roads are invited to write for the "Solvay Road Book," mailed free, upon request.

SEMET-SOLVAY CO.
410 Milton Avenue, Solvay, N. Y

(An "Armco" Iron Culvert being placed under the California State Highway near Fresno, California.)

When War Makes Labor Scarce

it is a satisfaction to know that unskilled men can install

"ARMCO" IRON CORRUGATED CULVERTS

quickly and efficiently. They are shipped without delay, hauled easily, placed quickly, and will last a generation.

Their unfailing durability is their chief recommendation. They are made of "Armco" Iron—the purest and most rust-resisting iron that can be used.

For full information on Rust-Resisting "Armco" Iron Culverts, Flumes, Siphons, Sheets, Roofing, and Formed Products, write.

Resists Rust— **Armco Iron Culvert & Flume Mfrs. Association, Cincinnati, Ohio**

Grading Streets in Dallas, Texas

Moves More Dirt With Less Power

The Adams Leaning-Wheel Grader, or Scarifier-Grader, which leans against the load, can grade and shape up a gravel or MacAdam street, with greater ease and use less power, than any other type of grader. The

ADAMS ADJUSTABLE *Leaning-Wheel* GRADER

is guaranteed in actual road building or maintenance, to move more dirt with less power (mold board scouring and without side draft on the power) than any other grader of same length of blade.

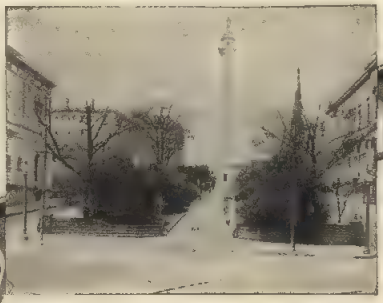
The economy and efficiency of the ADAMS Adjustable Leaning-Wheel Grader can be PROVED by TEST on your own road, before a sale is made. Write for free illustrated catalog showing ADAMS Adjustable Leaning-Wheel Graders at work under various conditions. Ask for Catalog C.

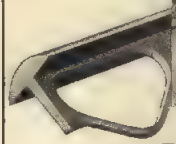
The ADAMS Leaning-Wheel Grader leans against the load just as you'd do if you were pushing a wheel-barrow up a hill. Catalog C gives full information.

J. D. ADAMS & CO.
Road Building Machinery
INDIANAPOLIS, IND.

BACK OF THE PERFECT CURBING ARE KAHN CURB BARS

They provide the best and most economical method of protecting and reinforcing concrete curbing for either business or residential streets. There is no separating or splitting of the concrete at the corners, on account of the open spaces in the anchorage, which is absolutely positive.





Kahn Curb Bars are manufactured from special rolled steel sections, and are heavily galvanized after forming. They are furnished in either straight or curved bars and provide a protection of 1½ inches. Standard lengths 8, 10 and 12 feet

TRUSSED CONCRETE STEEL COMPANY

Department C-43 **Youngstown, Ohio**

Representatives in Principal Cities

KAHN Building Products

Monarch Tandem Roller

Because of Labor and Material Shortage Machinery will be the Dominant Factor in Building and Maintaining Streets and Roads

We furnish a complete line of Street Building Equipment for Cities, Counties and Towns, including Steam Road Rollers, all sizes, Portable and Stationary Crushing Plants, Oil Distributors, Heating Kettles, Street Sweepers, Road Graders, Rooter Plows and Culvert Pipe. Catalog and prices on application.

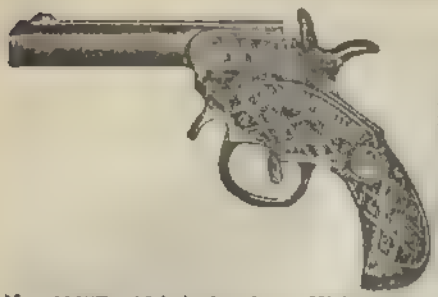
Made in 5, 6, 9 and 10 ton sizes. A small portable crushing plant, like the Champion, will enable cities to secure crushed stone from local deposits. Crushed stone will be hard to get in any other way during the coming year.

Write today for prices. Don't wait.
Delays this year will be dangerous.

THE GOOD ROADS MACHINERY CO.

Kennett Square, Pa.

TOY PISTOLS



KENTON BLANK

Hole bored through Barrel for No. 22 Blank Cartridge; Safety Guard to Prevent Sparks from Flying in Face; Finger Guard; Hammer cannot be thrown forward while the barrel is being loaded; No [illegible] the Pistol be [illegible] until the Barrel is in Normal Position. Nickel Plated Dull Finish.

Per Dozen

No. 1825P—6½ inches long; Weight per dozen 6¾ lbs..... **$4 50**

One Dozen in a Carton.

KENTON BLANK

Revolver Model; Safety Guard to Prevent Sparks from flying in face; Finger Guard; Nickel Plated, Dull Finish.

Per Dozen

No. 1820P—6¼ inches long. Weight per Dozen 2¼ lbs. **$3.00**

One Dozen in a Carton.

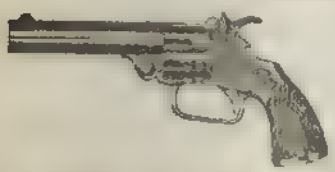
KENTON CAP

Smith and Wesson Heavy Pattern, [illegible] for use of Caps, Has Finger Guard Extension on Hammer to prevent Spark from Cap Flying in the Face; Nickel Plated Dull Finish.

Per Dozen

No. 1815P—7¼ inches long; Weight per dozen 5¼ lbs..... **$2 50**

One Dozen in a Box.



KENTON CAP

Solid Frame; Revolver Model; Extension on Guard to Prevent Sparks Flying in [illegible] Nickel Plated, Dull Finish.

Per Dozen

No. 1805P—4¼ inches Long; Weight per Dozen 1½ lbs..... **$0.86**

No. 1810P—6½ inches Long; Long Barrel, Weight per Dozen 3 lbs. **1.70**

One Dozen in a Box

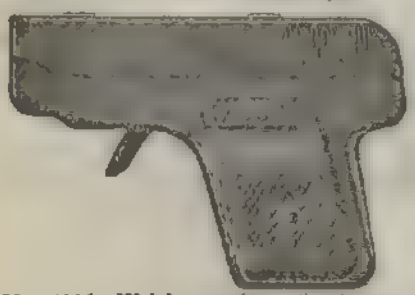
CAPS FOR TOY PISTOLS

Extra Quality Caps; Extra Loud Report.

Per Gross Packages

No. 1830—50 in a Box; Weight 1 lb [illegible]

No. 1831—50 in a Box; Weight ¼ lb. [illegible]



SCOUT SAFETY REPEATING

A safe and sane toy pistol, modeled after the latest and most approved automatic pistols.

The only Cap Pistol made which fires Caps on the Inside. Caps are fed in Rolls; Full directions with each Pistol.

Per Dozen

No. 1801—Weight per dozen 2½ lbs..... **$1.80**

One Dozen in Box. One Gross in case.

Ammunition for Above put up in Rolls, Extra Loud Report; 50 caps to Roll; 5 Rolls to a Carton.

Packed 5 dozen Caps to a Box; 5 Gross to Case; Weight per case 27 lbs.

CAPS FOR NOS. 1801 PISTOLS

Per Dozen Packages

No. 1803—Weight per Dozen 1 lb..... **$0 [illegible]**

5 Rolls (250 Shots) in a Package; Five Dozen Packages in a Box; Sixty Dozen in a Case.

NOTE:—Pistols and Ammunition will be Sold Together Only and will be sold only at the Following Ratio: With each Dozen [illegible] Dozen Caps must be [illegible] Manufacturer's Factory [illegible] and insist on this Ratio being Maintained. There can be no Deviation from the Above.

POP GUNS

Attached Cork Per Dozen

No. 450 All Steel, Lithographed in Assorted Colors; Copper Plunger; Length 7 inches, Weight per Dozen 1¼ lbs **$1.00**

Three Dozen in a Box

LITTLE DAISY

Per Dozen

No. DP—Steel Barrel, Nickel Plated, Walnut Stock; Length 17 inches; Weight 7 ozs.; Shoots a Cork with a Loud Report; No Danger **$5 50**

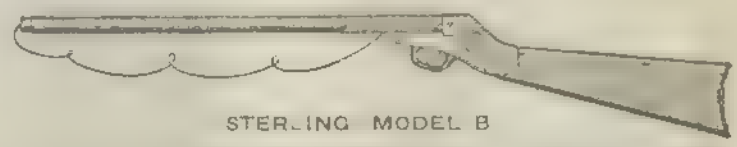
Twelfth Dozen in a Carton; Six Dozen in a Case; Wt. per Case 36 lbs.

KING

Per Dozen

No. KP—Steel Barrel, Nickel Plated Walnut Stock; Length 15 inches, Weight 6 ½ ozs.; Shoots a Cork with a Loud Report; No Danger **$5 00**

Twelfth Dozen in a Carton; Twelve Dozen in a Case Weight per Case 80 lbs.



STERLING MODEL B

A Perfect Air Pop Gun, Shoots Corks; Makes a Lot of Noise but Does No Damage; Substantial Construction; Walnut Stock Rigidly Attached to Frame; Barrel Highly Nickel Plated.

Per Dozen

No. B—Pop Gun; Length 29 inches; Weight per Dozen 20 lbs.....**$12 00**

One Dozen in a Case

SIOUX CHIEF Per Dozen

No. KBA—Bow and Hand Piece of Polished Nickeled Steel, 26 in. Long, Polished Hardwood Arrow 15 in. Long with Rubber Tips, Weight complete 12 ozs. each..... **$5.00**

One Dozen in a Carton

STERLING—RIFLETTE

Shoots a Cork Attached to End of a String, Makes a Loud Noise but Does No Damage; High Class Construction, Easy and Smooth Lever Action; Black Walnut Stock Shaped and Polished; Round Barrel Nickel Plated and Polished.

Per Dozen

No. A—Riflette; Length 17 inches; Weight per Dozen about 6 lbs **$5.50**

One in a Carton; One Gross in a Case, Weight per Case 70 lbs.

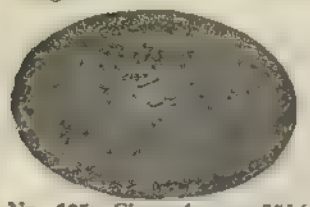
Length 18½ in.; Break Gun; Walnut Stained Wood Stock; Steel Barrel, Breech and Mechanism; Dull Japan Finish; Shoots Cork with Air Pressure, like Air Rifle, except that Cork is not Released; Produces the Satisfying Explosion of Shooting with all Danger Eliminated.

Per Dozen

No. 1333—Weight per Dozen 7 lbs. **$4 50**

One in a Package

FOOT BALLS



RUGBY

Cover Made of Imitation Leather; Regulation Pebbled Surface, Brown Tan Color; Pure Gum Bladder.

Per Dozen

No. 105—Circumference 25½ inches; Weight 4 ozs.....$16 00
One Dozen in a Box

Cover Made of Narrow Wale Rubberized Cloth, Drab Color, Pure Gum Bladder.

Per Dozen

No. 106—Circumference 22 inches; Weight 2 ozs.....$6 50
One Dozen in a Box

ASSOCIATION

Cover Made of Imitation Leather, Six Strips to Each Ball; Color of Strips Red, White and Blue; Pure Gum Bladder.

Per Dozen

No. 203—Circumference 22 inches; Weight 2 ozs.....$14 00
No. 204—Circumference 16 inches; Weight 1½ ozs 6 50
One Dozen in a Box

NOTE—The Bladders Used in Nos. 105, 106, 203 and 204 are of Pure Gum and of Excellent Quality, but Are of Light Weight and **not guaranteed.**

STANDARD RUBBER

Best Quality Black Rubber; Heavy Cloth Inside; Cemented Seams; Complete with Key.

Nos.	1	2	3	4	5	6
Inflated	18	2	21	27	30	35
Weight	3½	4½	5	7	8½	10
Per Dozen	$12 00	14 00	16 00	18.00	20 00	24 00

One

BASKET BALLS

Per Dozen

No. 175B -Regulation: Complete with Lacing Needle; Pebble Grain Leather Lined with Heavy Canvas, Wax Thread Sewed and Hand Finished; Welted Seams; Weight per Dozen 10½ lbs.. **$78 00**

No. 200B -Amateur; Pebble Grain Sheepskin; Canvas Lined, Welted Seams; Sewed with Linen Thread; Weight per Dozen 11 lbs..... **54 00**

Twelfth Dozen in a Box

PLAYGROUND BALLS

Play Ground or Out Door Balls Have Raised Welted Seams, and Are Particularly Adapted for Out Door or Cinder Grounds. The Raised Seams Protect the Stitching in Seams, Making this Style Ball Very Durable.

Per Dozen

No. PB -Made from Selected American Oak Tanned Leather; Regulation Size; Each Ball Complete with Pure Gum Bladder, Rubber Lace and Stitching Needle; Weight per Dozen 17 lbs.$120.00
One in a Box

BOXING GLOVES

Per Dozen Sets

No. 22—Boys' Miniature; Corbett Pattern; 2 oz.; Elastic Wrist; California Kid; Mocha Brown Color; Improved Grip; Plain Wrist; Tan Color Drill Lined; Tape Bound; Stuffed with Curled Hair; Stitched with Linen Thread; Weight per Dozen Sets 12 lbs..... **$90.00**

One Pair in a Box

Per Dozen Sets

No. 23 Boys' Miniature; Standard Pattern, 3 oz.; Elastic Wrist, California Kid; Close Back; Mocha Brown Palm and Wrist; Improved Grip; Plain Wrist; Tan Color Drill Lined, Tape Bound; Stuffed with Curled Hair; Stitched with Linen Thread, Weight per Dozen Sets 12 lbs **$42 00**

One Pair in a Box

STRIKING BAGS

All Diamond Brand Striking Bags Are Made of Selected Leather Free from Flaws, and the Leather Used is of a Uniform Thickness; All Material is Thoroughly Stretched Before Making Up, to Insure a Permanent Shape.

Complete with Pure Gum, Two-Piece Bladders; Braided Cotton Suspending Cord and Screw Eye.

OVAL SHAPE—SINGLE END

Per Dozen

No. 4—Pearl Color Grain Kid Leather; Lined Throughout with Extra Strong, Light Weight Drill; White Rawhide Double Suspending Loop; Reinforced Bottom Cap; All Seams Welted with Blue Kid Leather and Double Sewed with Linen Thread; Leather Bound; Metallic Eyelets and Braided Linen Cord Lace; Weight per Dozen 16½ lbs..... **$120 00**

No. 6—Mocha Brown Tanned Soft Sheepskin Leather; Lined Throughout with White Drill; White Rawhide Single Suspending Loop; Reinforced Top and Bottom Caps of Mocha Brown Leather; Single Seams; Sewed with Linen Thread; not Welted; Unbound; Plain Eyelets and Braided Linen Cord Lace; Weight per Dozen 12 lbs..... **60.00**

Twelfth Dozen in a Box

The Keystone Watch Case Co's Fine Excelsior Chronographs and Horse Timers

ILLUSTRATIONS ARE EXACT SIZE

Prices Quoted Are For Complete Watches

An "Ideal, Desirable and Accurate" Chronograph. "THIN MODEL" 16-Size, made in 7 and 15 Jewels. Fitted with "SILVERODE" and 20-Year Gold Filled Cases.

DESCRIPTION OF MOVEMENT

OPEN FACE, ¾ plate, Stem Wind, Train bearings in metal Settings. Quick train. Nickel damaskeened. One-fifth second—start, stop and fly back—operated from the crown. Cut Expansion Balance. Breguet Hair Spring.

ALL CASES ARE SCREW BACK AND SCREW BEZEL

Movement view Dial view

CROWN SILVERODE CASE

No. 9538 Fitted with 7-Jewel Movement, complete ... $14.60

No. 9539 Fitted with 15-Jewel Movement, complete.....$17.45

CROWN 20-YEAR GOLD FILLED CASE

No. 9540 Fitted with 7-Jewel Movement, complete $24.55

No. 9541 Fitted with 15-Jewel Movement, complete.....$27.40

NEW YORK STANDARD

7-JEWEL COMPLETE WATCHES

No. 9542—16 Size

7-JEWEL COMPLETE WATCHES

Attractively boxed. Packed in cartons holding six watches each. Dials assorted, two each white, cream and gilt in each carton. Show case cards in each carton.

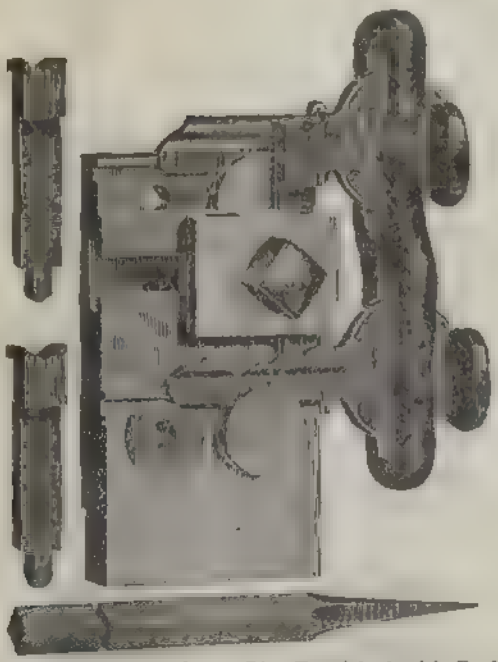
No. 9543 12 Size

PRICES

No. 9542 16-Size, per ½ dozen.. .. .. $43 80
No. 9543 12-Size, per ½ dozen..... .... 47.65

KEY CUTTING MACHINES

FOR CYLINDER KEYS ONLY



HARRISON

This Machine can be Clamped in Any Vise.

Made of Steel, Milled to its Shape, Making its Accuracy Positive.

An Accurate Key Cutting Machine at a Reasonable Price. The Gauge Pins are Tempered so Hard that they Cannot be Filed; Making it Impossible to Wear Them Out.

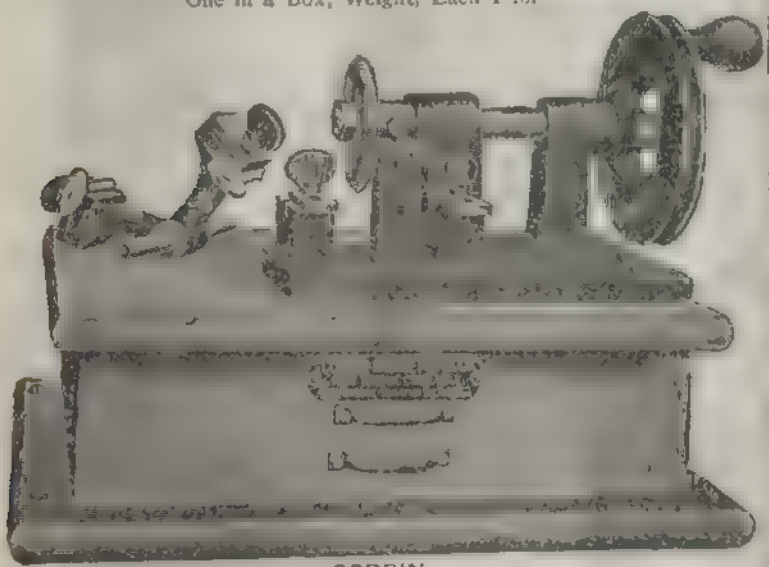
Cut Shows Gauge Pins Furnished with Each Machine, One for V Groove and One for Round Groove.

Each

No. M1P—1⅜x2¼ inches, Polished Steel, Brass Thumb Nuts for Holding Keys; Bow Clamp is made of Iron, Japanned, with Japanned Thumb Screws..... $7.40

FILES

No. HF—Special Diamond Files for Use with No. M1P Machine.. .90
One in a Box; Weight, Each 1 lb.



CORBIN

Handsomely Finished Hardwood Cabinet, 13½ inches Long, 12½ inches Wide and 4½ inches High, with Two Drawers Partitioned off to Keep Keys Separated. Can be Operated by Hand or by Belt. Will Accurately Cut Keys for all Pin Tumbler Locks.

Each

✣**No. 9101**—Complete Cabinet, Machine and Twelve Dozen Assorted Cylinder Key Blanks..... $60.00
One in a Case; Weight, Each lbs.

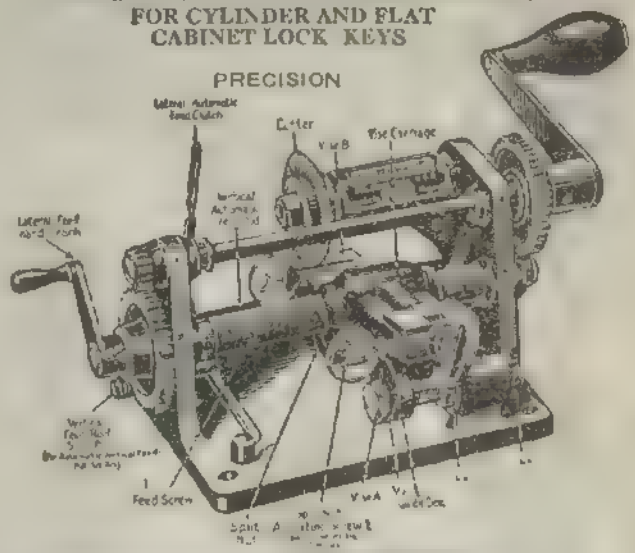
✣**No. 9101½**—Machine Only, Without Cabinet or Keys. 50 00
One in a Case; Weight, Each lbs.

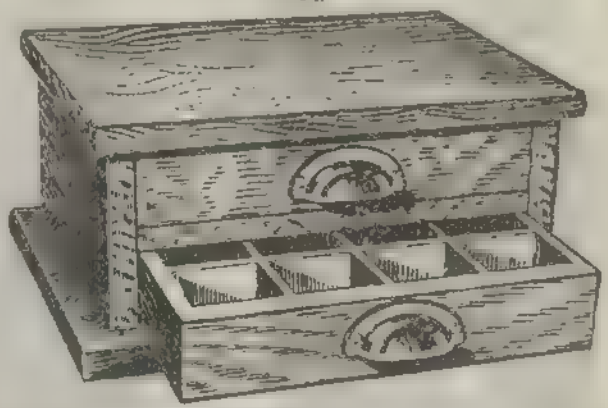
✣**No. EC9101**—Extra Cutting Wheels for above Machine. 4.00
One in a Box; Weight, Each 1 lb.

✣KEY CUTTING MACHINES

FOR CYLINDER AND FLAT CABINET LOCK KEYS

PRECISION





An Automatic Key Cutting Machine, Operated by Hand or Power Cuts an Exact Duplicate of Key without Injuring or Marring [illegible] Key; All Types of Pin Tumbler Cylinder Keys Are Cut with the [illegible] Cutter; the Sharpest V Shape Notches Are Cut as Easily as the Round U Shape Notches and without Changing Cutter. No Skill or Experience is Required; Mistakes Through Operator's Carelessness Impossible with this Machine. Will Cut Keys at the Rate of One per Minute.

Will Duplicate Any Pin Cylinder Lock Key from Original or Pattern Key; Will Also Cut Flat Cabinet Lock and Other Keys Having Square Bits and Bows. Occupies a Space Only 8x[illegible] Inches, Can Be Fastened to Counter, Work Bench or Key Blank Cabinet. Weight Packed for Shipment [illegible] Lbs.

✣Precision Machine (without Cabinet) Complete with One Each [illegible] Cutter and Guide Disc, One Each [illegible] Cutter and Guide Disc and Hand Crank (for Power Wheel Hand Crank will be Furnished without Extra Charge). $40 00

✣**No. PKC**—Cabinet Only, without Keys; Hardwood, [illegible] ished; 14½x13 [illegible] Weight Packed for Shipment 15 Lbs. 5 00

One in a Box

Hand Crank with Power Wheel

Extra Cutter

Extra Guide Disc

Each

✣Hand Cranks... $2 00
✣Hand Cranks, with Power Wheel. 2 00
✣Bevel Edge Cutters..... 4 00
✣Square Edge Cutters, 14, 15, 16, 17, 18, 19 or 20 Gauge.. 2 00
✣Bevel Edge Guide Discs.. .50
✣Square Edge Guide Discs, 14, 15, 16, 17, 18, 19 or 20 Gauge .30
✣Complete Sets Square Edge Cutters with Discs, 6 Gauges of Each; Including All Gauges Except 18, which Is Provided with Machine... 12 00

Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory.

DOG COLLAR PADLOCKS

For Dog Collars, Small Chests, Fishing Tackle Boxes and Baskets, Show Cases, etc.

Per Dozen

No. 2969—¾ in. Cast Brass; Easily Unsolder, Self Locking, Spring Shackle; Three Secure Levers, Two German Silver Keys, 24 Changes. Weight per Dozen 3¼ lbs. **$39.00**

No. 2969¾—Gold Plated; otherwise same as above. **60.00**

One Dozen in a Box

Per Dozen

No. 2875 ⅝ inch Polished Cast Brass Case and Shackle, Self Locking; One Flat Bronze Key; 12 Changes. Wt. per Dozen 6 ozs **$10 00**

One Dozen in a Box

Per Dozen

No. 0800—⅝ inch Polished Brass Case and Shackle; Self Locking, Side Throw Spring, One Flat Steel Key, Wt. per Dozen 4 ozs. **$6.20**

One Dozen in a Box

Polished Brass Cash and Shackle; One Barrel Key

Nos.	40	41	42
Size Inches	⅝	¾	1
Wt. Doz. Ozs.	2	4	7
Per Dozen	$3 10	3 30	4.00

One Dozen in a Box

¾ in. Polished Wrought Brass, One Polished Brass Key.

Per Dozen

No. 91—Wt. per Doz. 7 oz. **$3.70**

No. 92—Nickel Plated; Otherwise same as above. **4.00**

One Dozen on a Card

½ in. Polished Wrought Brass, One Polished Brass Key.

Per Dozen

No. 81—Wt. per Doz. 4 ozs. **$2 80**

No. 82—Nickel Plated; Otherwise same as above. **3.00**

One Dozen on a Card

⅞ inch Cast Brass; Self Locking, One Pin Key

Per Dozen

No. 1572 Wt. per Doz. 4 ozs **$2.70**

One Dozen in a Box

⅝ inch Nickel Plated Wrought Brass, One Flat Steel Key.

Per Dozen

No. 350—Wt. per Doz. 3 ozs. **$4.50**

One Dozen in a Box

ASSORTMENTS

Size of Card [illegible] Per Card

No. 130 Twelve Assorted Nickel Plated Wrought Brass, Keyless Secret Padlocks; Weight per Card 2 ozs. **$2.70**

One Card in a Box

Size of Card 6½x4½ inches Per Card

No. 212—[illegible] Polished Wrought Brass Locks, One Polished Brass Key to Each Lock, Wt. per Card 1 ozs. **$2.90**

One Card in a Box

Size of Card 7½x4½ inches Per Card

No. 12—Assorted, Twelve Brass Locks, [illegible] Secret Keyless Nickel Plated Cases, 4 Polished Brass Key Locks, 5 Nickel Plated Key Locks; Wt. 8 ozs. **$2.80**

One Card in a Box

Size of Card 6 [illegible]x4½ inches Per Card

No. 256 Assorted Twelve Polished Cast Brass Padlocks, 3 Each, ¾, 7/8 and 1 inch; One Key to Each Lock, Weight per Card 9 ozs. **$3 70**

One Card in a Box

Size of Card 6⅝x4⅛ inches Per Card

No. G—Assorted, Twelve ⅝ inch Polished and Nickel Plated Brass Padlocks; Round and Shield Shaped; One Key to Each Lock; Wt. per Card 5 ozs. **$4.00**

One Card in a Box

Size of Card [illegible] inches Per Card

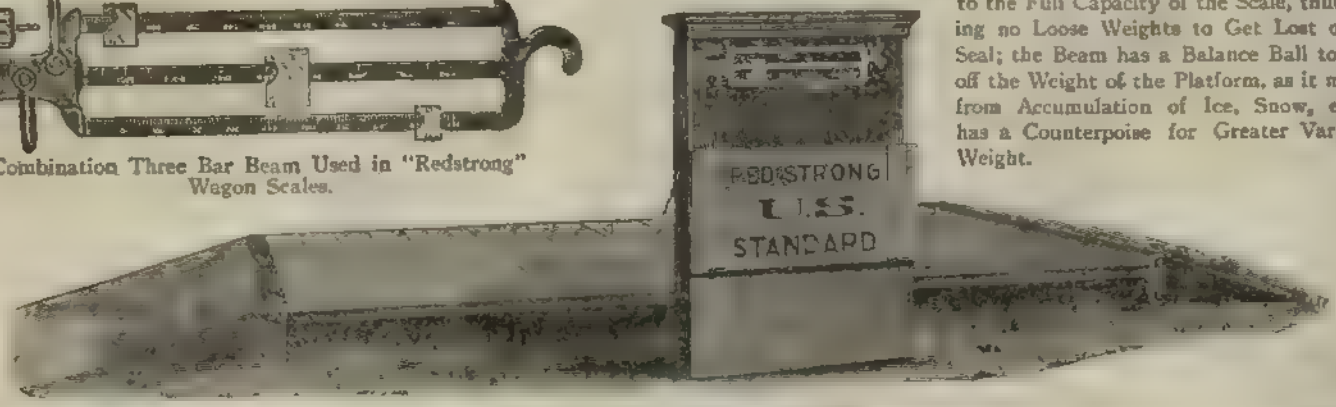
No. A—Assorted Six Polished Brass and Six Nickel Plated brass Locks, One Key to Each Lock; Wt. per Card 9 ozs. **$5.50**

One Card in a Box

✣PITLESS HAY AND WAGON SCALES

Combination Three Bar Beam Used in "Redstrong" Wagon Scales.

The Scale Beam is Accurately Graduate to the Full Capacity of the Scale, thus Requiring no Loose Weights to Get Lost or out of Seal; the Beam has a Balance Ball to Balance off the Weight of the Platform, as it may Vary from Accumulation of Ice, Snow, etc.; also has a Counterpoise for Greater Variation in Weight.



★REDSTRONG STEEL PITLESS

With Solid Brass Combination Three Bar Beam

The Upper Bar is Graduated by 10 lb. Marks to 2000 lbs; it has a Brass Faced Sliding Poise, with Set Screw for Fastening at any Point when Used for Tare Purposes, the Lower Bar is Graduated to 500 lbs. by 2½ lb. Marks and has Steel Brass Shoing Poise; the Middle Bar is Graduated to Balance of Capacity of Scale by 500 lb. Notches and has a Brass Faced Sliding Poise, Fitted with Pin which Drops in the Notches; the Poise is Sealed on Each Notch, Making any Variation in Weight Impossible.

	Each
✣ No. R4T—Capacity 4 Tons; Size of Platform 8x14 feet; Weight Each About 1000 lbs.	$180 00
✣ No. R5T—Capacity 5 Tons; Size of Platform 8x14 feet; Weight Each About 1050 lbs.	200 00

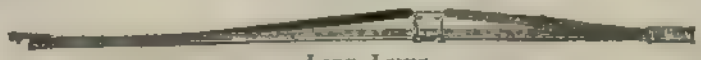
The "Redstrong" Scale has the Direct Steel Lever Construction, Which Gives it the Advantages and Many of the Special Features of a Pit Wagon Scale; this Important Combination of Improvements Makes it a Very Desirable Scale, as well as a Very Economical One to Erect.

Corner Connection

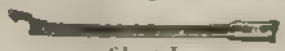
SPECIAL FEATURES OF REDSTRONG WAGON SCALES

The Illustration on the Left Shows the Remarkably Strong Corner Connection; Each End of the Frame is Made of Heavy Steel Channel Beam; these Beams are Connected by Tubular Steel Cross Pieces which are Secured at Each Corner by a Strong Bracket Bolted to the Channel Beam in the Most Secure Manner Possible. The Heavy Hardened Loops Shown on the Right Support the Steel Levers on which the "I" Beams and Platform with Load are Carried; the "I" Beams are Held in Place by Hardened Bearing Feet Supported on Levers, by Tempered Tool Steel Pivots.

The Levers are Held in the Loops by Tempered Tool Steel Pivots.



Long Lever



Short Lever

Both Levers are Made from a Single Piece of Heavy T-Shaped Rolled Steel.

The Long Levers are Reinforced with **Heavy Steel Trusses,** Making Them Perfectly Rigid Under any Strain; the Short Lever Supports are Riveted to the Center of the Long Lever Between the Lever and the Lever Truss, as Shown Above; the Saddle is Heavy and Swings from a Hardened Steel, Cone Shaped Pivot, Making it Impossible for the Long and Short Lever Connections to Bind or Rub. Both Levers are Provided with a Hardened Steel, Cone Shaped Pivot, which Rests in a Tempered Tool Steel Cup. **The Bearings are Protected from Mud, Dust and Water.** The Beam Box is Made of Selected 1 inch Tongued and Grooved Lumber with Heavy 1½ inch Moulded Top; Painted 2 Coats; it is Braced by Steel Rods; the Beam Box Door has Heavy Wrought Hinges and Flat Key Lock.

Long and Short Lever Connection

We Furnish this Scale Complete, Except Lumber for Platform.

Building Plans, Giving Full Directions for Installing, Furnished with Each Scale.

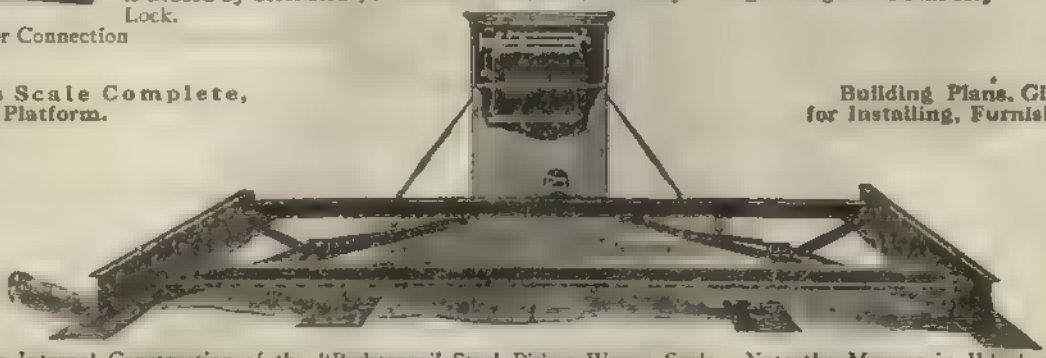


Illustration Shows Internal Construction of the "Redstrong" Steel Pitless Wagon Scale. Note the Manner in Which the Steel Channel End Beams are Connected by Tubular Steel Cross Pieces, the Scale is Sealed to U. S. Standard Weight and Carefully Boxed and Crated for Shipment. Each Scale Packed in Two Boxes; Four Pieces Levers and Six Pieces Structural Iron, Separate.

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Southern Michigan.

FLY TRAPS

BALLOON

Per Dozen

No. 3B—Blued Wire Cloth Body; Tin Bound Edges; Height 7¾ inches; Diameter of Body 5¾ inches; Weight per Dozen 2¼ lbs..... **$2.70**

One Dozen in a Box

PARAGON

Per Dozen

No. 2P—Black Wire Cloth Body Braced with Tin Strips; Tin Bottom and Top; Height 9½ inches; Diameter at Bottom 6¼ inches; Weight per Dozen 4½ lbs **$3.30**

One Dozen in a Box

PET

Per Dozen

No. PET—Black Wire Cloth Body, Braced with tin strip; tin Bottom and top; Height 5½ inches Diameter at bottom 4⅜ inches; Weight per Dozen 3¼ lbs..... **$2.00**

One Dozen in a Box

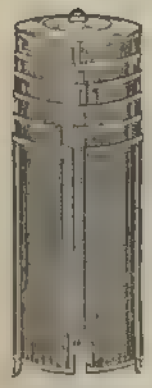
JIM-DANDY—OUTDOOR

Made of the best Quality Black Japanned Wire Cloth; Wooden Ribs; Top and Bottom made of good Grade Chestnut, Oak Finish; Lid is Fitted with Wire Bail and Metal Top Pieces; Easily Emptied and Set Up; Very Strong and Durable; Clean and Sanitary.

Per Dozen

No. JD—Height 20 inches; Diameter 11 inches; Cone Extends 10 inches High; Weight per Dozen 42 lbs **$19.50**

Packed Knocked Down; 1 Dozen Complete in Neat Paper Carton



KING—OUTDOOR

Light, Strong, Durable

Black Japanned Wire Cloth; Galvanized Ribs; Tin Lids with Flange; make Tight Fit at Removable Cones; Traps Fastened at Sides with Small Stove Bolts and Nuts. Clean and Sanitary.

Cut Shows Trap In Use

Nested for Shipment

Nos.	33	18	14
Height, inches	22	18	14
Diameter, inches	12	9	7
Weight per Dozen, lbs.	60	40	25
Per Dozen	$28.00	$9.00	14.00

One Dozen Nested in a Wood Box

FLY KILLERS

BIGELOW PATTERN

Spring Steel, Wire Head, Broom Shaped; Size 6x5¼ Ebony Finished Hardwood Handle; Brass Ferrule with Rubber Protection Ring to prevent damage to furnishings.

Per Dozen

No. B—Length over all 15 inches; Weight per Dozen about 2 lbs... **$1.60**

One Dozen in a Carton

KING

Per Dozen

No. K—Wire Head; Size 5x6½ inches; Selvage Edge on Sides; Leather Bound End; Black Enameled Handle; Length Over All 18 inches; Weight per Dozen 2½ lbs.....**$1.50**

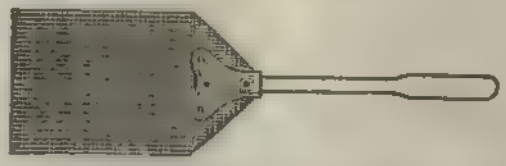
One Dozen in a Carton, with Display Stand

VELVET

Per Dozen

No. V—Black Wire Cloth Head; Size 6x3¾ inches; Wire Extending All the Way Around; Corduroy Bound Edge; Twisted Wire Handle Extending into Varnished Hardwood Grip; Will Not Crush Flies, Scratch Surface or Break Glass; Length Over All 17 inches; Weight per Dozen 1¼ lbs.....**$1.20**

One Dozen in a Box



SHURKIL

Per Dozen

No. S—Wire Head; Size 6x4¾ inches; Double Screen Wire; Selvage Edge on Sides; Wire Handle Reinforced with Riveted Tin Plate; Length Over All 16 inches; Weight per Dozen 2 lbs... **$1.70**

Two Dozen in a Paper Carton

DOUGLAS

Per Dozen

No. D—Black Wire Cloth Head, Imitation Leather Bound; Size 4x6 inches Flat Wood Handle, Varnished; Length Over All 16¾ inches; Weight per Dozen 1 lb.....**$1.00**

One Dozen in a Box

QUEEN

Per Dozen

No. Q—Wire Head, Felt Binding; Size 5x6¼ inches; Black Enameled Handle; Length over all 18 inches; Weight per Dozen 2½ lbs..... **$1.50**

One Dozen in a Carton, With Display Stand

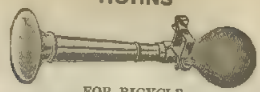
SWAT-STICKA

Per Dozen

No. SS—Black Wire Cloth Head; Size 5x6½ inches; Selvage Edge on Sides; Flat Wood Handle, Varnished; Length Over All 15 inches; Weight per Dozen 1 lb.....**$0.90**

One Dozen in a Carton

HORNS



FOR BICYCLE

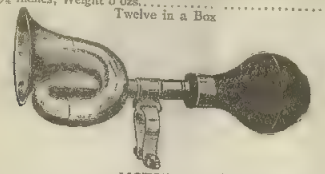
No. 3BH—Bell, 2½ inches in Diameter; Nickel Plated over Spun Brass; Metal Reed; Length Over All 7¼ inches; Diameter of Bulb 1⅞ inches; Weight 6 ozs. ..... Each $1 30

Twelve in a Box

FOR MOTORCYCLE

No. 2MH—Bell, 2½ inches in Diameter; Nickel Plated over Spun Brass; Metal Reed; Length Over All 9⅜ inches; Diameter of Bulb 2¼ inches; Weight 5 ozs. ..... Each $1.60

Twelve in a Box



MOTORCYCLE

No. 30—Bell and Bend, Nickel Plated over Spun Brass; Diameter of Bell 2⅝ inches; Length Over All 7⅝ inches; Metal Reed; Diameter of Bulb 2¼ inches; Weight 8 ozs. ..... Each $2.00

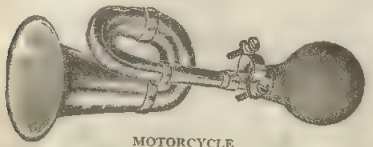
One in a Box

AUTOCRAT DOUBLE TONE

Made of Spun Brass, Nickel Plated and Highly Polished; Two Metal Reeds.

No. 4BH—Diameter of Bells 1⅜ and 1¼ inches; Diameter of Bulb 2½ incher; Length over all 11 inches; Nickel Plated Brass Clamps; Weight Each 11 ozs. ..... Each $2 80

One in a Box



MOTORCYCLE

Spun Brass Bell, Tube and Bend; Highly Polished; Metal Reed; Splendid Tone Effect

No. 4—4¼ inch Bell; Length Over All 11¼ inches; Diameter of Bulb 3 inches; Weight 1 lb ..... Each $3 50

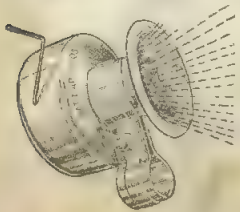
One in a Box

HAND ACTUATED

A miniature Automobile Horn of Latest Design; Every Part Interchangeable; Emits a Loud Sound at the Slightest Touch of the Plunger.

No. B—Size 3x3 inches; Finish All Black Enamel; Weight 1 lb... ..... Each $2 70

One in a Box



BICYCLE

Mechanically Operated Horn; a twist of the Crank clears the way with a loud Penetrating tone similar to an Electric Horn.

No. R—Black Rubberoid Enamel Finish; Adjustable Nickel Plated Bracket; Weight per Dozen 3 lbs.. ..... Per Dozen $4 00

One in a Box

HORNS

KLAXON MOTORCYCLE

Made to be used on Motorcycle or Bicycle. Has the true Klaxon warning Note; Operates by Pressing Push Rod; Short Projector, with Bracket to Attach to Frame.

Special Model

No. K3MF—Black and Nickel... ..... Each $4 50

One in a Box; Weight 5 lbs.

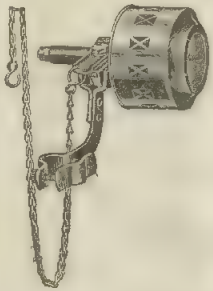
Same as No. K3MF, except Bracket attaches to Handle Bar instead of Frame.

Special Model

No. K3MH—Black and Nickel ..... Each $4 50

One in a Box; Weight 5 lbs

SIREN HORNS



SCREECH OWL

No. SO—Size of Case 3x2 inches; Nickel Plated; Hard Red Fibre Roller; Complete with Clamps; 22 inch Chain; Weight 1 lb... Each $1 60

One in a Box

BICYCLE BELL DISPLAY STANDS

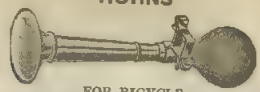
★RUGBY

More Bells Will be Sold with the Aid of this Stand. This Stand is the Best and Most Durable Device for the Proper Display of Bicycle Bells.

Made of Turned Hardwood; Spindles are ⅞ inches in Diameter; Base Pieces 1 Inch Diameter; Walnut Stained; Height 10¼ inches; Width 16 Inches; Base Pieces 5½ inches Long.

NOTE—This Display Stand is not Sold, but is Given Free of any Charge with an Order for Four (4) Dozen Assorted Bicycle Bells Shown in our Catalog; Bells may be Assorted to Suit Purchaser.

HORNS



FOR BICYCLE

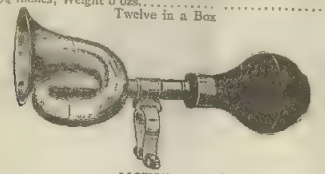
No. 3BH—Bell, 2½ inches in Diameter; Nickel Plated over Spun Brass; Metal Reed; Length Over All 7¼ inches; Diameter of Bulb 1⅞ inches; Weight 6 ozs. ..... Each $1 30

Twelve in a Box

FOR MOTORCYCLE

No. 2MH—Bell, 2½ inches in Diameter; Nickel Plated over Spun Brass; Metal Reed; Length Over All 9⅜ inches; Diameter of Bulb 2¼ inches; Weight 5 ozs. ..... Each $1.60

Twelve in a Box



MOTORCYCLE

No. 30—Bell and Bend, Nickel Plated over Spun Brass; Diameter of Bell 2⅝ inches; Length Over All 7⅝ inches; Metal Reed; Diameter of Bulb 2¼ inches; Weight 8 ozs. ..... Each $2.00

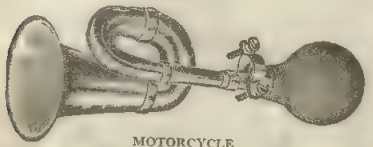
One in a Box

AUTOCRAT DOUBLE TONE

Made of Spun Brass, Nickel Plated and Highly Polished; Two Metal Reeds.

No. 4BH—Diameter of Bells 1⅜ and 1¼ inches; Diameter of Bulb 2½ incher; Length over all 11 inches; Nickel Plated Brass Clamps; Weight Each 11 ozs. ..... Each $2 80

One in a Box



MOTORCYCLE

Spun Brass Bell, Tube and Bend; Highly Polished; Metal Reed; Splendid Tone Effect

No. 4—4¼ inch Bell; Length Over All 11¼ inches; Diameter of Bulb 3 inches; Weight 1 lb ..... Each $3 50

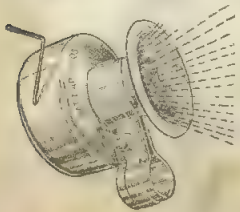
One in a Box

HAND ACTUATED

A miniature Automobile Horn of Latest Design; Every Part Interchangeable; Emits a Loud Sound at the Slightest Touch of the Plunger.

No. B—Size 3x3 inches; Finish All Black Enamel; Weight 1 lb... ..... Each $2 70

One in a Box



BICYCLE

Mechanically Operated Horn; a twist of the Crank clears the way with a loud Penetrating tone similar to an Electric Horn.

No. R—Black Rubberoid Enamel Finish; Adjustable Nickel Plated Bracket; Weight per Dozen 3 lbs.. ..... Per Dozen $4 00

One in a Box

HORNS

KLAXON MOTORCYCLE

Made to be used on Motorcycle or Bicycle. Has the true Klaxon warning Note; Operates by Pressing Push Rod; Short Projector, with Bracket to Attach to Frame.

Special Model

No. K3MF—Black and Nickel... ..... Each $4 50

One in a Box; Weight 5 lbs.

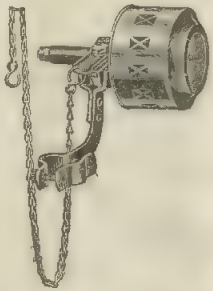
Same as No. K3MF, except Bracket attaches to Handle Bar instead of Frame.

Special Model

No. K3MH—Black and Nickel ..... Each $4 50

One in a Box; Weight 5 lbs

SIREN HORNS



SCREECH OWL

No. SO—Size of Case 3x2 inches; Nickel Plated; Hard Red Fibre Roller; Complete with Clamps; 22 inch Chain; Weight 1 lb... Each $1 60

One in a Box

BICYCLE BELL DISPLAY STANDS

★RUGBY

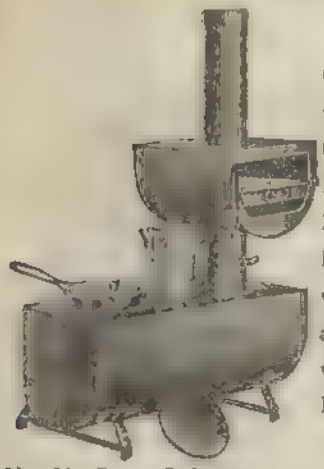
More Bells Will be Sold with the Aid of this Stand. This Stand is the Best and Most Durable Device for the Proper Display of Bicycle Bells.

Made of Turned Hardwood; Spindles are ⅞ inches in Diameter; Base Pieces 1 Inch Diameter; Walnut Stained; Height 10¼ inches; Width 16 Inches; Base Pieces 5½ inches Long.

NOTE—This Display Stand is not Sold, but is Given Free of any Charge with an Order for Four (4) Dozen Assorted Bicycle Bells Shown in our Catalog; Bells may be Assorted to Suit Purchaser.

CAMP STOVES

KLONDYKE CAMP COOKER



The Klondyke Cooker is an Ideal Camp Stove and is Built for Hard Service as well as convenience. Made of 22 Gauge Smooth Steel with the Back well Riveted to the body and the Front End Reinforced with Heavy Band Iron Rim. Body of Stove Built in Shape of Cylinder with one side Flattened to form the top and Cooking Surface. It takes large wood 28 inches long. Feed Door and Draft Side in Front End.

Each

No. 60—Stove Only, 22 Gauge Steel; Length 30 inches, Width 14 inches; Furnished with 5 Joints of 14 inch Pipe; Weight each 20 lbs. **$14 00**

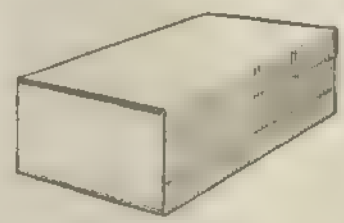
DETACHABLE OVEN FOR KLONDYKE CAMP COOKER

This Oven is to be used with the above Stove, in the Smoke Pipe Six inches above the Top of Stove, so that Cooking Surface is free. Being Curved on Lower Side allows a free circulation of Heat around the Oven and the Flat Top forms a convenient place to keep the Grub and Coffee Warm. Will take a 10x14 Bake Pan nicely. Bake Pan furnished with Oven.

Each

No. 70—Oven; 22 Gauge Steel; Size Outside 13x15x9½ inches; Size Inside 11x15x0; 10x14 inch Bake Pan furnished with Oven; Weight 9 lbs. each..... **$8 00**

One in a Crate



Cut Shows How Compact Stove Can Be Folded When Not in Use

Clean and Compact; Made of Heavy Sheet Iron; All Sooty or Dirty Parts Fold Inside; Has Down-in Rest for Coffee Pot, Which Makes Quick Boiling; Folding Chimney which Carries Away Smoke, usually so Disagreeable when Camping.

Each

No. 75—Size Folded 17x9x5 inches; Weight 10½ Lbs..... **$5.00**

One in a Carton

CAMP GRIDS

An Ideal Grid, for use with wood fuel and for permanent camp purposes. Made of best steel wire and reinforced with a flat steel bar, making it rigid and preventing the cross wires being warped by heat. All joints electrically welded. Legs fold out of the way so that the Grid can be placed in a very small space.

Per Dozen

No. 3G—All Steel; Aluminum Finish; Size 10x14 inches; Legs 12 inches Long; Weight per Dozen 24 lbs..... **$9.00**

No. 4G—All Steel; Aluminum Finish; Size 13x21½ inches; Legs 13 inches Long; Weight per Dozen 42 lbs..... **13.50**

Loose

CAMPERS LAMPS
ACETYLENE GAS

JUSTRITE

With New "Matchless" Lighter Attachment; Especially Intended for use by Sportsmen for Camping, although they will be found suitable for Superintendents, Engineers, Surveyors, Mine Inspectors, etc.

SMALL SIZE HAND

Per Dozen

No. 100—Drawn Brass; Nickel Plated and Highly Polished 2½ inch Nickel Plated Reflector with Sparker Attachment; equipped with Folding Handles and Hook also No. 76 Pocket Carbide Can and Extra Repair parts; Height 3½ inches; Diameter 2 inches; Burns 3 Hours with One Filling; Weight per Dozen 5 lbs..... **$36.00**

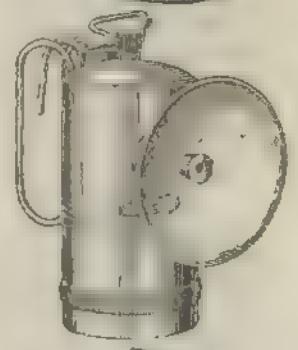
Twelfth Dozen in a Carton

LARGE SIZE HAND

Per Dozen

No. 95—Drawn Brass; Nickel Plated and Highly Polished 3 inch Nickel Plated Reflector with Sparker Attachment; Equipped with Large Hook and Folding Handles also No. 75 Pocket Carbide Can; Burns 5 Hours on One Filling; Height 4 inches; Diameter 2½ inches; Weight per Dozen 7 lbs..... **$50 00**

Twelfth Dozen in a Carton



It's Trouble-Proof

Per Dozen

No. 180—Brass, Highly Polished and Nickel Plated Finish, Equipped with Hinged Handle and Hook, and Furnished with a 3½ inch Reflector, Self Lighter, and Wind Shield. Also Equipped with new Water Feed to Hold a Steady Flame and an Extra Generator, Height 5½ inches, Diameter 2¼ inches; Weight per Dozen 7½ lbs. **$45.00**

Twelfth Dozen in a Carton

CAMP LAMP

No. 298—Polished Brass with Nickel Plated Finish, Complete with 2¾ inch Nickel Plated Reflector, Equipped with Hook and Handles; Height over all 3⅞ ins. Diameter 2 ins. Burns Three hours with One Filling; Weight per Dozen 5¾ lbs.....**$18 00**

Twelfth Dozen in a Wooden Box

COLUMBIA JACK LAMP AND GENERATOR

For Hunters, Fishermen, Miners and Sportsmen

Throws a Powerful White Light; Invaluable for Hunting Coon, Possum and other Nocturnal Animals.

Per Dozen Sets

No. C3—Generator 5½ inches Long; 2 inches in Diameter; Weight 16 ozs.; (Carbide capacity enough to run the Lamp 5½ hours.) Made of Brass, Gun Metal Finish; Attached to any Width Cartridge Belt up to 2 inches; Headlight Weight 6 oz.; Powerful Parabolic Reflector, Diameter Face 2¾ inches; Straps to Front of Hat; Is Connected to Generator by Rubber Tubing; Weight Complete per Dozen 25 lbs...**$108.00**

Twelfth Dozen in a Box

PICNIC LUNCH SETS

Mapleware Attractive Unique and Sanitary

Appropriate for Out-Door Meals; Use them at Camp or Cottage, in Cruisers, Yachts or Power Boats; for Indoor Use for Dutch Lunches; Tea Parties, and Informal Collations of all Kinds.

Made from One Piece of Genuine Sugar Maple; Will not Leak or Warp.

Set Contains:

6 Dinner plates,
2 Large Vegetable or Salad Dishes,
2 Large Meat or Sandwich Platters,
6 Handy Side Dishes,
6 Salt and Pepper Dishes,
12 Sanitary Maple Spoons,
6 Wood Fibre Napkins,
1 Wood Fibre Table Cover.

Per Dozen Sets

No. MLS—Size of Carton 12x8x2½ inches; Weight per Dozen 13 lbs..... $4 50

One Set in a Carton

PICNIC PLATES

PAPRUS

Made of Pure Spruce, Pulp Fiber, Waterproofed; Adapted for Picnics, Camping, Yachting, Church Suppers, Automobiling, Lunches and Light Housekeeping; Twenty-five Plates in a Carton.

Per Dozen Packages

No. LP25—Diameter 8 inches; Depth ¾ inch; Weight per Package of 25 Plates 1 lb..... $2 40

Twenty-Five Plates in a Package

STERNO KITCHENETTES

IN ASSORTMENTS

Folded

Two-Burner Kitchenette

One Burner Kitchenette

CONTENTS

	Retail Each
4 Only Two-Burner Kitchenettes, Complete with Canned Heat....	$2 00
2 Only One-Burner Kitchenettes, Complete with Canned Heat..	1 50
[illegible]	[illegible]
Total Retail Value..	$14 00

These Stoves Are Made of Heavy Wrought Steel, Capable of Sustaining the Weight of Large Kettles, Ham Boilers and Even a Wash Boiler

They Are Handsomely Finished in Dull Hard Rubber with Planished Tops. Fold Up Easily and Compactly, Occupying but Little Space.

Provided with Windshield on Three Sides for Convenient Outdoor Use.

Two-Burner Size 10x8 inch Top, Height 4¼ inches; Folded 10x8x1½ inches

One-Burner Size 8x8 inch Top, Height 4¼ inches; Folded 8x8x1½ inches.

Per Assortment

No. 1600—Assortment..... $19 78

Weight per Assortment 26 lbs.

CAMP COOKERS

STOPPLES—FOLDING

The Ideal Kook-Kit for Campers, Fishermen, Hunters and Automobilists; Small and Compact, well made and Durable; Fills all the Requirements Desired; Fits the Pocket and can be readily and easily put up in a few seconds

Entire Outfit Consists of One Galvanized Steel Wire Broiler 8¼ inches long and 7 inches wide, with four Wire Legs 7½ inches long, which are Driven into the Ground; Two Frying Pans 8¾ inches long, 4 inches wide and 1 inch deep; One Large Water Boiler 8 inches deep, 4 inch wide and two Drinking Cups 4 inches deep, 3½ inches wide; all equipped with removable Steel Wire Handles.

Per Dozen

No. SK—Stamped Steel Cups, Frying Pans and Water Boiler, Nickel Plated and Polished; Heavy Galvanized Steel Wire Broiler; Removable Steel Wire Handles, Size when folded 9¼ inches long, 4 inches wide and 2 inches thick Wt per Doz 32 lbs. $38 00

Twelfth Dozen in a Box

COMBINATION POCKET KNIVES AND TOOLS

Fully Guaranteed

EMPIRE

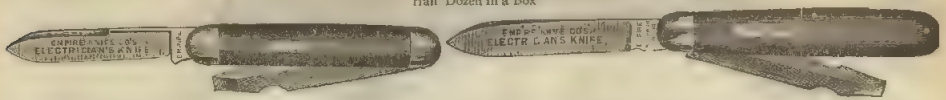
EMPIRE

★EMPIRE

Electricians Knife; Lock Back; Length 3⅝ inches; German Silver Flush Bolster; One Screw-Driver Blade with Cutting Edge; Glazed and Etched; Brass Lining; German Silver Shield; Weight per Dozen 22 ozs. Per Dozen

No. 1E50—Cocobolo Handle **$13 50**

Half Dozen in a Box



★EMPIRE

Electricians Knife; Plain Back; Length 3¼ inches; German Silver Flush Bolsters; One Large Spear and One Screw-Driver Blade with Cutting Edge; Glazed and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1½ lbs. Per Dozen

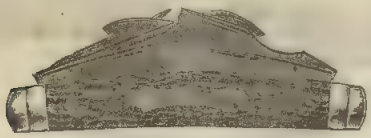
No. 2649E—Ebony Handle **$14.00**

Half Dozen in a Box

Electricians Knife; Lock Back; Screw-Driver Blade; Length 3⅝ inches; German Silver Flush Bolster; One Large Spear and One Screw Driver Blade with Cutting Edge; Glazed and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1⅞ lbs. Per Dozen

No. 2E50—Cocobolo Handle **$13.00**

Half Dozen in a Box

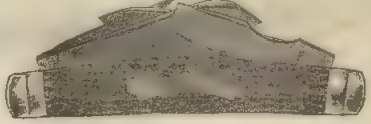


★J. KOESTER'S SONS', GERMANY

Congress Pattern; Length 4¼ inches; Polished Steel Rat Tail Bolsters; One Large Spear, One Large Congress, One Small Pen and One Nail File Blade; Full Polished; One Cigar Box Opener and Screw Driver; One Leather Punch; Brass Lining; German Silver Shield; Weight per Dozen 3½ lbs Per Dozen

No. C5006ST—Patent Stag Handle **$26 00**

Half Dozen in a Box



★J. KOESTER'S SONS', GERMANY

Congress Pattern; Length 4¼ inches; Polished Steel Rat Tail Bolsters; One Large Spear and One Large Congress Blade; Full Polished; One Cigar Box Opener and Screw Driver; One Leather Punch; Brass Lining; German Silver Shield; Weight per Dozen 2¾ lbs. Per Dozen

No. C3001ST—Patent Stag Handle **$20.00**

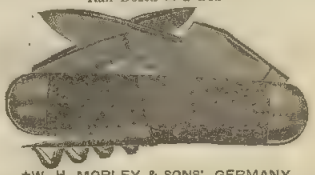
Half Dozen in a Box

★J. KOESTER'S SONS', GERMANY

Anglo-Saxon Pattern; Length 3⅝ inches; German Silver Flush Bolsters; One Large Spear and One Small Pen Blade; Half Polished; One Cigar Box Opener and Screw Driver; One Leather Punch; Brass Lining; German Silver Shield; Weight per Dozen 2⅝ lbs. Per Dozen

No. C4096ST—Patent Stag Handle **$18.00**

Half Dozen in a Box

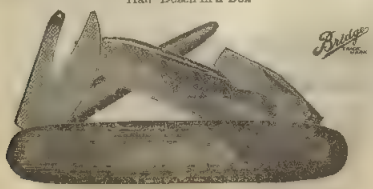


★W. H. MORLEY & SONS', GERMANY

Regular Jack Pattern; Length 3½ inches; German Silver Flush Bolsters; One Large Spear and One Small Pen Blade; Full Polished; One Can Opener, One Cork Screw, One Cigar Box Opener and Screw Driver, One Leather Punch; Brass Lining; No Shield; Weight per Dozen 2½ lbs. Per Dozen

No. 7938ST—Patent Stag Handle **$27.00**

Half Dozen in a Box

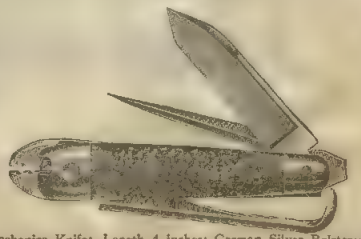


BOY SCOUTS OF AMERICA

Length 3⅝ in.; No Caps or Bolsters; German Silver Shield; German Silver Burrs on Rivets at each end; Brass Lining; One large Spear Blade; One Combination Screw Driver and Can Lifter, One Can Opener and Hook and One Leather Punch Blade. Half Polished and Etched; Weight per Doz. 2½ lbs. Per Dozen

No. 4B445AC—Assorted Colored Pyralin Handles, Gray Bone, Water Lined Crimson and Water Lined Blue **$22.00**

Half Dozen in a Box



Mechanics Knife; Length 4 inches; German Silver Bolsters; One Large Spear Blade Glazed, One Pair Flat Nose Wire Cutting Pliers, One Reamer and One Screw Driver; Brass Lining; No Shield; Weight per Dozen 3⅝ lbs. Per Dozen

No. 3H—Patent Stag Handle **$27.00**

Half Dozen in a Box

COMBINATION POCKET KNIVES AND TOOLS

★ *DIAMOND EDGE*

Forged from Best Pocket Cutlery Steel Known, Thomas Firth & Sons Sheffield, England; Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, Ease in Opening of Blades, Superior Finish and Symmetrical Appearance. Every Blade Sharpened and Honed Ready for Use; Free from Flaws and Imperfections. FULLY GUARANTEED.

Specially Adapted to the Needs of Automobilists

Length 3¾ Inches; German Silver Bolsters; One Large Spear and One Small Combination Blade; Half Crocus Polished and Etched; Brass Lining, German Silver Shield. The Combination Blade Consists of Screw Driver, Crown Opener and a Prest-O-Lite Tank Key; Weight per Dozen 2 lbs.

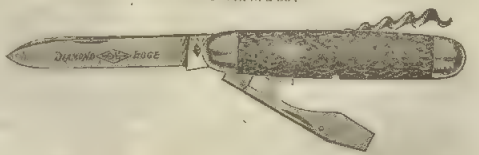
	Per Dozen
No. 3S410ST— Patent Stag Handle	$12.50

Half Dozen in a Box

Length 3 inches; German Silver Bolsters; One Large Spear and One Small Combination Blade, Half Crocus Polished and Etched; One Cork Screw, Brass Lining; Combination Blade Consists of a Screw Driver, Crown Opener and Prest-O-Lite Tank Key, Weight per Dozen 1¾ lbs.

	Per Dozen
No. 3S411P— Pearl Handle	$36.00
No. 4S411¼P - Same as No. 3S411P, except with **Punch Blade** in addition	42.00

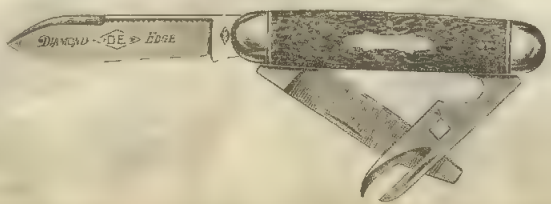
Half Dozen in a box



Length 3 inches; German Silver Bolsters; One Large Spear Blade; One Cork Screw; One Combination Blade; Half Crocus Polished and Etched; Brass Lining; Combination Blade Consists of a Screw Driver, Crown Opener and Prest-O-Lite Tank Key; Weight per Dozen 1¾ lbs.

	Per Dozen
No. 3S411ST— Patent Stag Handle	$22.00
No. 4S411¼ST—Same as No. 3S411ST, except with **Punch Blade** in addition	31.00
No. 4S411STF -Same as No. 3S411ST, except with **Flexible File Blade** in addition	24.00

Half Dozen in a Box



Length 3¾ Inches; German Silver Bolsters; One Large Spear Blade; Half Crocus, Polished and Etched, Two Combination Blades; Glazed Finish; One Consists of Screw Driver, File and Wire Scraper, the Other Consists of Can Opener, Crown Opener and Prest-O-Lite Tank Key; Brass Lining; Weight per Dozen 2½ lbs.

	Per Dozen
No. 3S407ST Patent Stag Handle	$21.00

Half Dozen in a Box

Exclusive Western and Southern Distributors for the Product of the Empire Knife Co., Winsted, Conn.

GLUE
LE PAGES LIQUID

Most Convenient Form; Always Ready for Use; Contains no Acids; For Wood, Leather, Glass, Iron, Stone, Paper and Cloth.

IN BOTTLES, WITH SPREADER

For Family Use

Per Gross

No. 10—One Ounce Bottle, Size 1¼x1¾ inches; Weight per Gross 2½ lbs. **$20 00**

No. 20—Two Ounce Bottle, Size 3¼x1¾ inches; Weight per Gross 4½ lbs. **31 00**

One Dozen in a Box (No Less Sold)

IN CANS, WITH SPREADER

For Family Use

Per Dozen

No. 5—One-half Gill Can, Size 1¾x1¾ inches; Weight per Dozen 3⅝ lbs..... **$3 00**

No. 0—One Gill Can, Size 2x2¼ inches; Weight per Dozen 5½ lbs. **4 70**

One Dozen in a Box (No Less Sold)
Six Dozen in a Case

IN CANS

For Mechanics and Repairers Use

Per Dozen

No. 30—½ Pint Can, Size 2⅜x3½ inches; Weight per Dozen 10½ lbs **$7 20**

No. 40—1 Pint Can, Size 3x4 inches; Weight per Dozen 16½ lbs.... . **11.50**

No. 50—1 Quart Can, Size 4¼x4⅝ inches; Weight per Dozen 34 lbs..... **18 00**

No. 60—½ Gallon Can, Size 4¾x6¾ inches; Weight per Dozen 63 lbs. . **34 00**

No. 70—1 Gallon Can, Size 6¼x8 inches; Weight per Dozen 132 lbs **64.00**

No. 30, Two Dozen; Nos. 40 and 50, One Dozen; Nos. 60 and 70, Half Dozen in a Case.

FAMILY ASSORTMENTS

Per Assortment

No. 1 Assortment Contains Two Dozen 1 Ounce Bottles and One Dozen 1½ Gill Cans, with Brushes; Display and Advertising Cards and a Neat Wire Display Stand, 14 inches High, are Included; Weight per Assortment 12 lbs.. **$6.30**

One Assortment in a Case

GLUE
LE PAGES LIQUID

Most Convenient Form; Always Ready for Use; Contains no Acids; for Wood, Leather, Glass, Iron, Stone, Paper and Cloth.

IN PATENT PIN-SEALING TUBES

Per Dozen

No. T10—One Ounce Tube; Weight per Dozen ½ lb.. . . . . **$1 80**

No. T20—Two Ounce Tube; Weight per Dozen 1 lb.. . . . . **3.00**

One Dozen in a Box (No Less Sold)

MENDING CEMENT

ROCK CEMENT

Mends China, Glass, Metal, Wood, Crockery, etc., Impervious to Hot or Cold Water and Dampness; Will not Congeal in Cold Weather

Per Dozen

No. R—1 Ounce Bottle; Size 1x2½ inches; Weight per Dozen 1⅝ lbs. **$1.80**

One Dozen on Easel Display Card; (No Less Sold)
One Gross in a Case

DRY GLUE

Per Pound

No. 100—Common; Flake, for Soft Wood Work; Sizing and Book Binding. **$0.62**

No. 110—Carpenters; Flake; for sizing and joist gluing..... **.66**

No. 110½—Carpenters; Ground; for Veneering and Sizing.... **.66**

No. 120—Cabinet; Flake; for Cabinet Makers Use and High Grade Work . . . . . **.70**

No. 130—Ribbon; Uniform Strips; for Best Grade of Work.... **.62**
25 lbs. in a Wooden Drum

PHOTO PASTE

LE PAGES

For Schools, General Office use, etc. The best thing for Scrap Books, Mounting Photos, etc. Does not Dry too quickly, Strike Through the Paper, Warp the Mount or Discolor the Print.

In Tubes

Per Dozen

No. P5—Small Size, Retails for 5 cents; Weight per Dozen ⅓ lb.. **$0 90**

One Dozen in a Handsome Display Box (No Less Sold)

Celebrated LA TAUSCA PEARLS La Tausca Pearls. Suitable For Any Occasion Moderate in Price. Genuine in Appearance

Each String of Pearls Encased in a Most Handsome and Elaborate Presentable Cabinet as Illustrated. PRICES EACH.

PRESIDENT PERLES.

Roman quality, comes in assorted shades of white and creme, mounted with a solid gold spring clasp. Encased in Grey Leatherette white-lined cabinet. Necklace 18 inches long. Supplied in two sizes, uniform or standard size and a slightly graduated size which is extremely very popular.
No. 2782 Uniform size, length 15¾ inches . . Each $5 75 No. 2783 Slightly graduated size, length 18 inches . . . . . Each $6 75

PANAMA-PACIFIC PERLES

An especially fine oriental reproduction, necklace fifteen and one-half (15½) inches long, solid gold clasp, encased in grey velvet cabinet. Supplied in two (2) sizes, uniform or standard size and a slightly graduated size which is extremely very popular. No. 2784 Uniform size . . Each $21 00 No. 2785 Slightly graduated size . Each $21 00

LA TAUSCA KEYVA PERLES

Has an unusual and highly prized velvet-rose tint. Length 15½ inches, with clasp of white gold (harmonizing beautifully with pearls) and set with a genuine diamond encased in an elaborate grey velvet, satin-lined cabinet, like illustration. Supplied in two sizes, uniform or standard size and a slightly graduated size which is extremely popular. A sensational pearl value. No. 2786 Uniform size . . . . . Each $19 00 No. 2787 Slightly graduated size . Each $19 00

FINE PEARL, CORAL, AMETHYST AND BLACK JET NECKLACES

PRICES EACH

No. 2788 Fine Oriental Roman La Tausca Quality of a rich slight Creme shade, mounted with gold filled spring ring clasp, length 15½ inches, in standard uniform size.....Each $4.00

No. 2789 Fine Oriental Roman La Tausca Quality of a rich slight Creme shade, mounted with gold filled spring ring clasp, length 15½ inches, in extremely popular graduated size.....Each $5.00

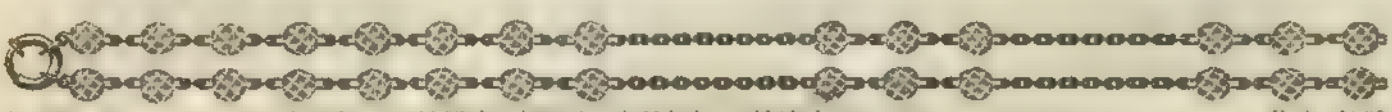
No. 2790 Fine Oriental Roman La Tausca Quality of a rich slight Creme shade, mounted with gold filled spring ring clasp, length 24 inches, in standard uniform size.....Each $6.50

No. 2791 Fine oriental pearl necklace, length 14 inches, gold filled patent screw fastener.....Each $7.50

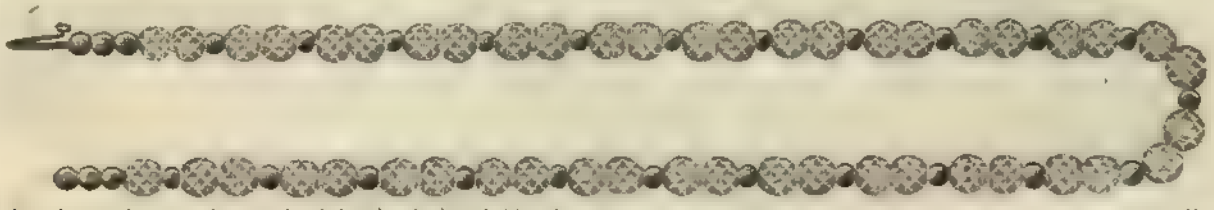
No. 2792 Fine adjustable pink coral bead necklace, length 14 inches, gold filled spring ring.....Each $3.00

No. 2793 Fine oriental pearl necklace, length 14 inches, gold filled patent screw fastener.....Each $7.50

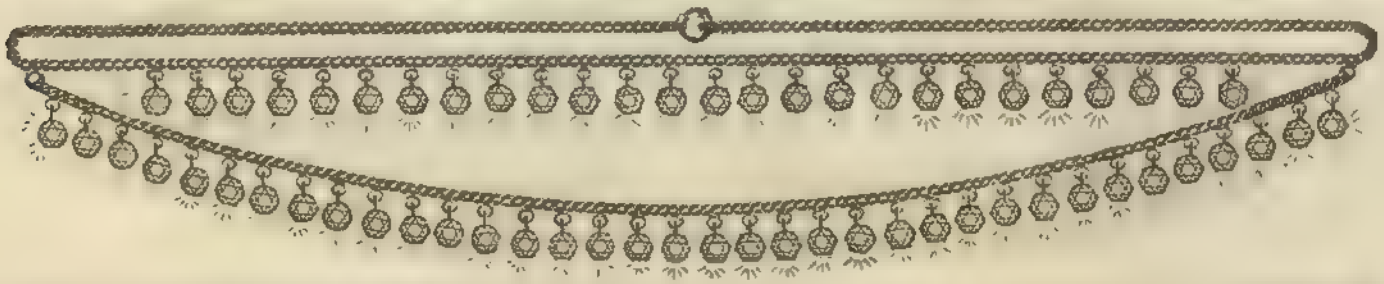
No. 2794 Fine black hand carved six strand graduated beaded neck chain, length 14 inches.....Each $5.00



No. 2795 Fine amethyst faceted beads and gold filled necklace, length 22 inches, gold filled spring ring.....Each $4.00



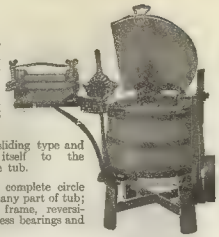
No. 2796 Fine faceted blue sapphires and polished beads, length 14 inches.....Each $4.25



No. 2797 Two strand, 62 brilliants, fine gold filled polished single curb link chain.....Each $10.00
No. 2798 One strand, 20 brilliants, fine gold filled polished single curb link chain.....Each 6.50

LIBERTY BELL.

POWER.



Liberty Bell Power Washers are fitted with an absolutely new type of mechanism. When lid is lifted the dolly is thrown out of gear and does not move, lowering the lid starts the dolly.

The dolly is of the sliding type and automatically adjusts itself to the amount of clothes in the tub.

Wringer swings in a complete circle and is easily available to any part of tub; it has a strong malleable frame, reversible drain board, frictionless bearings and enclosed cogs.

Tub is corrugated, stave leg type, made from Louisiana cypress, stained and highly varnished; fitted with metal drain faucet.

Washers are geared to a speed of 175 R. P. M. and are fitted with a 10-inch pulley for a 2-inch belt. Mechanism and metal parts finished in aluminum and black.

Each

No. LBP—Washer; diameter of tub, top 21 inches, bottom 24 inches; height over all, 30 inches; wringer rolls, 1¾x10 inches; weight crated, 175 lbs. **$45.00**

One in a crate.

ELECTRIC.

Liberty Bell Electric Washers are fitted with compact, simple and efficient motor that has ample power to operate both tub and wringer at the same time. It is fully protected from interference by dirt or water, but easily accessible if necessary. Furnished complete with belt tightener, cord and plug; supplementary pulley 1¼x8 inches.

The dolly is of the sliding type and automatically adjusts itself to the amount of clothes in the tub.

Wringer has strong malleable iron frame and is supplied with reversible drain board; rolls are of the best pure rubber, 1¾x10 inches.

Tub is corrugated stave leg type, made from Louisiana cypress, fitted with metal drain faucet and casters; natural wood finish highly varnished; mechanism and metal parts finished in aluminum and black.

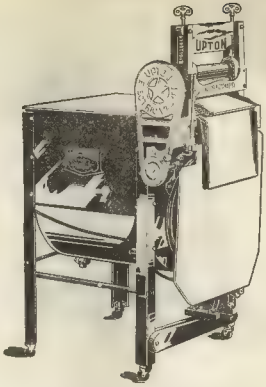
Each

No. LBE—Washer; diameter of tub, top 21 inches, bottom 24 inches; height over all, 32 inches; weight crated, 225 lbs. **$81.00**

One in a crate.

NOTE—Our stock is 110 volt, 60 cycle, alternating current; other voltage or current will be shipped from factory and charged for on basis of cost at factory on date of shipment.

UPTON.



The Upton principle of washing by electricity is considered the easiest and most economical.

The cylinder makes three-fourths of a complete circle and returns, clothes while washing describe a rough figure eight, getting two complete plunges.

The capacity of the Upton is six sheets and fifty towels. It washes a full load clean in six minutes and washes for family of six in ninety minutes.

The Upton system abolishes rubbing. Laces, rugs, curtains, etc. may be washed without the slightest injury. It does not have projecting ribs to wear; no metal to cut nor pegs to twist clothes. Plunging and that only, coupled with good hot soapy water does the work.

Has four unobstructed sides for the operator with controls all on one side.

The Upton is scientifically built, strains are equally distributed, motor is of the General Electric type; maximum current consumption costs about two cents per hour.

Has steel rods to support body; ball bearing casters; two roll reversible wringer with safety devise; angle iron legs bracing entire structure; made from well seasoned cypress; highly finished in dark oak; all metal parts are galvanized and are enameled gray.

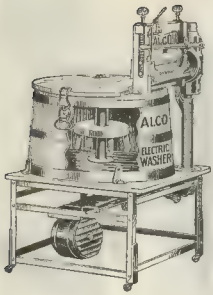
Each

No. 1G—Upton Electric Washer; capacity, six sheets, fifty towels; height over all, 52 inches; width, 26 inches; weight crated, 225 lbs. **$90.00**

F. O. B. St. Paul, Minn

NOTE—Our stock is 110 volt, 60 cycle, alternating current; other voltage or current will be shipped from factory and charged for on basis of cost at factory on date of shipment.

ALCO.



Simple to operate, built strong and durable. Can be attached to any electric light socket. Cord and plug furnished with each machine. Dolly type washer with underneath drive. Frame is best angle iron, 1x1x⅛ inches; platform, 26x29 inches; adjustable extension legs for lowering or raising platform. Equipped with roller bearing casters. Has four-position, 11-inch, swinging power wringer with quick release, reversible drain board and clothes spreader. Wringer may be operated while washer is working, and from same power.

Frame aluminum finish, tub natural wood, varnished. The motor is of special design, Robbins & Myers make; furnished for either alternating or direct current. Special gearing insures maximum power at minimum cost.

POWER.

This model is same as the Alco Electric washer described above, except that it is operated by gasoline or kerosene engines or any other power.

Each

No. 50P—Alco Power Washer; diameter bottom, 26 inches; diameter top, 23 inches; staves, 1x14 inches; hoops, 1½x18 gauge; wringer rolls, 11x1¾ inches; shipping weight, 205 lbs. $50 00

ELECTRIC.

Each

No. 50E—Alco Electric Washer; diameter bottom, 26 inches; diameter top, 23 inches; staves, 1x14 inches; hoops, 1½x18 gauge; wringer rolls, 11x1¾ inches; approx. shipping weight, 250 lbs. $90 00

NOTE—Our stock is 110 volt, 60 cycle, alternating current; other voltage or current will be shipped from factory and charged for on basis of cost at factory on date of shipment.

One in a crate.

The Alco Twin Washer named "Twin" because it has two separate and distinct wash tubs. These tubs can both be used at the same time or each one operated separately. This gives double or large capacity and is particularly desirable for large households.

The Alco Twin Power Washer is smooth running, almost noiseless, has no complicated mechanism—nothing on the wash tub lids and is simple and easy to use. It is beautifully finished, the frame in aluminum enamel and the tubs natural wood varnished. The Alco is known as the dolly type washer with underneath drive. The frame is best angle steel, 41 inches long and 26 inches wide. Has adjustable extension legs for raising or lowering platform from floor. Also has floor fasteners. The Alco has a four-position 11 inch swinging power wringer with quick release, reversible drain board and clothes spreader. The tub is corrugated inside.

POWER.

Each

No. 250P—Alco Power; dimensions of tub, top 23 inches, bottom 26 inches; dimensions of frame, length 41 inches, width 26 inches; weight each crated, 300 lbs. $70.00

ELECTRIC.

Each

No. 250E—Alco Electric; fitted with specially designed ¼ h. p. Robbins-Meyers motor, otherwise same as No. 250P Alco power washer; weight each crated, 345 lbs .$112.00

NOTE—Our stock is 110 volt, 60 cycle, alternating current; other voltage or current will be shipped from factory and charged for on basis of cost at factory on date of shipment.

One in a crate.

LAMP ASSORTMENTS

Sold in Complete Assortments Only
No Additional Charge for Packing.

No. B—9¼ inches. No. C—9¾ inches. No. D—10¼ inches

No. B—9¼ inches. No. C—9¾ inches. No. D—10¼ inches.

★MIZZOO ASSORTMENT—TWENTY-FOUR LAMPS

Twenty-Four Pure Crystal Glass Lamps; Four Lamps of Each Size and Style Illustrated above; All Use No. 2 Burners and Chimneys.

Per Assortment

★Mizzoo Assortment—Contains Twenty-Four Pure Crystal Glass Lamps; Four of Each Style and Size Illustrated Above; Fitted with Plaster Collars for No. 2 Burners; **Without Burners, Chimneys or Wicks**..... **$12 50**

★FLYER ASSORTMENT

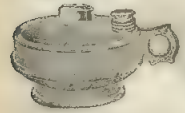
TWENTY-FOUR LAMPS

Twenty-Four Pure Crystal Glass Lamps; all One Style and Size as Illustrated; All use No. 2 Burners and Chimneys.

Per Assortment

★Flyer Assortment—Contains Twenty-Four Pure Crystal Glass Lamps, all one style as illustrated; Fitted with Plaster Collars for No. 2 Burners; **without Burners, Chimneys or Wicks**..... **$11.00**

One Assortment in a Barrel; Shipping Weight 90 lbs.



GLASS LAMP FOUNTS

Crystal Fount; Outside Filler Clinched on Collar; Takes **No. 2 Burner**; Height to top of Collar 4 inches, Diameter of Base 4 inches; Capacity 1½ Pints.

Per Dozen

No. 12—With Handle; For Hand Lamp, or in Chandelier and Bracket; Weight per Dozen 20 lbs..... **$4 50**

Loose.

Crystal Fount; Outside Filler Clinched on Collar; Takes **No. 2 Burner**; Height to Top of Collar 4 inches, Diameter of Base 4 inches; Capacity 1½ Pints.

Per Dozen

No. 13—Without Handles; For Chandelier and Bracket; Weight per Dozen 15 lbs..... **$3.50**

Loose

GLASS LAMP FOUNTS

Glass Fount; Plaster Collar; Takes **No. 2 Burner**; Height to top of Collar 3½ inches; Diameter of Base 4½ inches; Capacity 1 Pint.

Per Dozen

No. 14—With Outside Filler; Weight per Dozen 10 lbs..... **$3 50**

Loose.

Glass Fount; Plaster Collar; Takes **No. 2 Burner**; Height to top of Collar 3½ inches. Diameter of Base 4½ inches; Capacity 1 Pint.

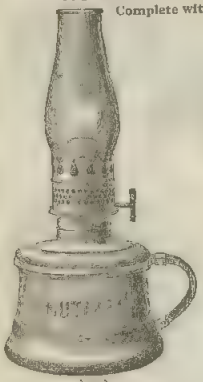
Per Dozen

No. 15—Without Filler; Weight per Dozen 9 lbs..... **$3.00**

Loose.

NURSERY OR NIGHT LAMPS

Complete with Burner and Chimney



No. N

NUTMEG

Clear Opal or Blue Glass Fount; Brass Wire Handle; Capacity, ½ Pint; Nutmeg or (No. 2-O Sun) Burner, Wick and Chimney; Plaster Collar. Height, 7 ins. Base, 4 inches; Weight Per Dozen, 24 Pounds.

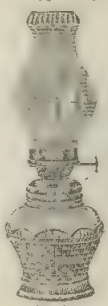
Per Dozen

No. N1 Complete with Chimney..... **$5.50**

No. 8

Per Dozen

No. 8—Fancy Venetian Design Fount and Chimney with Black Stripe on Colored Glass; Assorted Green and Yellow Colors. Capacity for Fount 7 ozs.; Stellar Burner; Screw-on Collar; No. 0 Flat Wick, ⅝ inch; Height of Base 3 in.; Height over all 7½ inches; Weight per Dozen..... **$4.50**



No. 13

Per Dozen

No. 13—Fancy Pressed Crystal Glass Fount; Plain Crystal Glass Chimney; Capacity of Fount 5 ozs.; Screw on Collar; Stellar Burner; No. 0 Flat Wick, ⅝ inch; Height of Base 3 inches; Height over all 7 inches; Weight per Dozen 10 lbs.. . . **$4 50**

No. 15

ALL STEEL

Per Dozen

No. 15—Stamped Steel Fount and Stand, Assorted Red and Green Enameled; Height to Top of Chimney 7½ inches; Complete with Brass Burner, Chimney and Wick; Weight per Dozen 5 lbs..... **$4.00**

One Dozen Assorted Colors in a Carton.

LAMPS

LIBERTY SEWING LAMP ASSORTMENT
Twenty Lamps

Pure Crystal Glass Lamps; Four of Each Size and Style Illustrated Above; the Two Small Sizes Fitted with No. 1 Plaster Collar and No. 2 Plaster Collar Fitted on the Three Larger Sizes.

Per Assortment

Liberty Assortment—Contains Twenty Lamps as Above; Without Burner, Chimney or Wick..... **$12.50**

One Assortment in a Barrel; Weight 90 lbs.

No. 2569C No. 2574C No. 2567C

No. 2570C No. 516C No. 2576C

★RUGBY SEWING LAMP ASSORTMENT—TWENTY-FOUR LAMPS

Twenty-Four Clear Crystal Glass Lamps; Four Lamps of Each Style Illustrated Above; All are 8¾ inches in Height; All Use No. 2 Burners and Chimneys.

Per Assortment

★Rugby Assortment—Contains Twenty-Four Clear Crystal Glass Sewing Lamps; Four of Each Style Illustrated Above; Fitted with Celebrated Riverside Clinched-On Collars for No. 2 Burners; All Measure 8¾ inches to Top of Collar; **Without Burners, Chimneys or Wicks** **$16 00**

One Assortment in a Barrel; Shipping Weight 90 lbs

LAMP ASSORTMENTS

Sold in Complete Assortments Only

No Additional Charge for Packing.

No. 20B 9 inches — No. 20C—Sewing; 8¾ inches. — No. 20C 9½ inches. — No. 20D 10¼ inches

★COLONIAL ASSORTMENT—TWENTY-FOUR LAMPS

Twenty-Four Extra Heavy Colonial Crystal Glass Lamps; Six of Each Style Illustrated Above; All No. 2 Size for No. 2 Burners, with Celebrated Riverside Clinched-on Collars.

Per Assortment

★Colonial Assortment—Contains Twenty-Four Extra Heavy Nevada Colonial Lamps; Six of Each Style and Size Illustrated Above; All Fitted with Riverside Clinched-on Collars for No. 2 Burners, **Without Burners, Chimneys or Wicks** **$16 00**

One Assortment in a Barrel, Shipping Weight 100 lbs.

No. 800C—Size 9 inches — No. 801C—Size 9 inches — No. 802C—Size 9 inches

No. 803C—Size 9 inches — No. 101D—Size 9½ inches — No. 101D—Size 9⅝ inches

★NEW HOME SEWING LAMP ASSORTMENT TWENTY-FOUR LAMPS

Twenty-Four Pure Crystal Glass Lamps; Four of Each Size and Style Illustrated Above; All Fitted with No. 2 Shrunk-On Collars.

Per Assortment

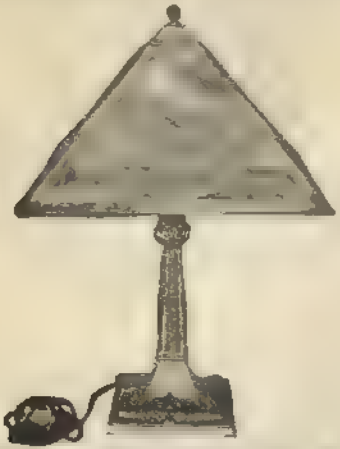
★New Home Assortment—Contains Twenty-Four Crystal Glass Lamps, Assorted, Four of Each of the Sizes and Styles Illustrated Above; All Are Fitted with **Shrunk-On Collars for No. 2 Burners; Without Burner, Chimney or Wick.** **$14 50**

One Assortment in a Barrel; Shipping Weight 90 lbs.

Remarkable Bargains in Fine Library Lamps

All come fitted with six (6) foot Braided Cord.

Comes in various glass colors and finishes in base which specify when ordering. When color and finish is not stated when ordering, most popular style will be sent.



1 light, key socket Library Lamp. 7 inch cast base, 13 inch shade in overlay scroll effect, 4 panels, amber or green glass. Height 17 inches. Finish gold and green or antique brass with 6 feet of cord and plug.

No. 709 Price, complete $14.00

2 light [illegible] Library Lamp. 8 inch cast base, [illegible] design, 6 [illegible] amber, green or amber green glass. Height 20 inches. Finish, antique gold, gold and green or Antique brass with 6 feet of cord and plug.

No. 6005 Price, complete $24 35

2 light pull chain Library Lamp. 8 inch cast base, [illegible] inch shade in overlay conventional design. 8 panels, amber, green or amber green glass. Height 21 inches. Finish, copper and green, antique gold or gold and green with 6 feet of cord and plug.

No. 6020 Price, complete $24 85

2 light, pull chain Library Lamp. 8 inch cast base, 16 inch shade in overlay conventional design. 8 panels, amber, green or amber green glass. Height 20 inches. Finish, gold and green, antique gold or Antique gold, with 6 feet of cord and plug.

No. 6004 Price, complete $25 60

2 light, pull chain Library Lamp. 8 inch cast base, 18 inch shade in overlay conventional design. 8 panels, green amber green or amber glass. Height 22 inches. Finish, brown and gold or antique gold or Antique gold with 6 feet of cord and plug.

No. 6015 Price, complete $36 80

2 light, pull chain Library Lamp. 8 inch cast base, 18 inch shade in overlay urn design 8 panels, amber, green or amber green glass. Height 22 inches. Finish, brown and gold gold and green or antique Gold with 6 feet of cord and plug.

No. 6011 Price, complete $36 80

2 light, pull chain Library Lamp. 8 inch cast base, 18 inch shade in overlay floral design. 6 panels, amber, amber green or green glass. Height 21 inches. Finish, copper and green gold and green or antique gold with 6 feet of cord and plug.

No. 6017 Price, complete. $36 80

2 light, pull chain Library Lamp. 8 inch cast base, 20 inch shade in overlay conventional design, 9 upper and 9 bottom panels, amber, green or amber green glass. Height 23 inches. Finish, brown and green, antique gold or copper and green, with 6 feet of cord and plug. No. 6008 Price complete $37 35

2 light, pull chain Library Lamp. 9 inch cast base, 18 inch shade in overlay tulip design. 8 panels, amber green, amber or green glass. Height 23 inches. Finish, brown and green, antique gold or gold and green with 6 feet of cord and plug.

No. 6023 Price, complete $42 00

HIGHEST GRADE AMERICAN FIBRE FERN STANDS AND TEA WAGONS IN AMERICA

Hand Made. Quality—Comfort Style

SPECIAL FEATURES.

American Fibre Furniture is hand made by skilled labor, and all materials used are of the best

Clean, sanitary, comfortable and attractive.

Light and easy to handle, but strong and durable.

Not affected by heat or cold or moisture

Easily kept clean with a damp cloth

It will harmonize with any other furnishings in the home.

"American" Fibre Furniture is far superior to the ordinary reed or rattan or willow furniture. It will not break or split. It has a lasting finish. It is practically indestructible, and with ordinary care will wear indefinitely

Finished **Brown** or **Old Ivory**—soft, beautiful shades that are restful and pleasing to the eye, and harmonize with any color scheme in the home.

No F-270 FIBRE FERN STAND

Including galvanized iron pan, 16 inches high, inside measurement 11 inches, 7½ inches deep.

No. F-270B Brown, each $21 25
No. F-270OI Old Ivory, each 24 25

No F-271 FIBRE FERN STAND.

Including galvanized iron pan, 30 inches high, inside measurement 11¾x28 inches, 7½ inches deep.

No F-271B Brown, each $26 00
No F-271OI Old Ivory, each. 29 75

No. F-149 FIBRE FERN STAND

Including galvanized iron pan, 30 inches high, inside measurement 11¾x28 inches, 7½ inches deep.

No. F-149B Brown, each $42 50
No. F-149OI Old Ivory, each 47 25

No F-343 FIBRE TEA-WAGON

Length over all 34 inches, width 18½ inches, height 29½ inches

No. F-343B Brown, each $39 00
No. F-343OI Old Ivory, each 46 50

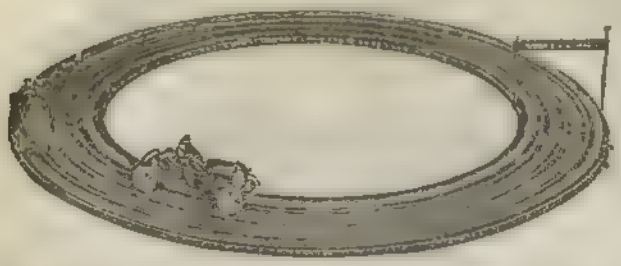
No. F-342 FIBRE TEA-WAGON.

Including tray with glass bottom, length over all 35 inches, width 17 inches, height 30 inches, depth of top 5 inches.

No F-342B Brown, each $52 00
No. F-342OI Old Ivory, each. 60 50

ELECTRIC TOYS

LIONEL ELECTRIC RACING AUTOMOBILES



A Ready Selling Toy Number and an Excellent Window Display

Piece

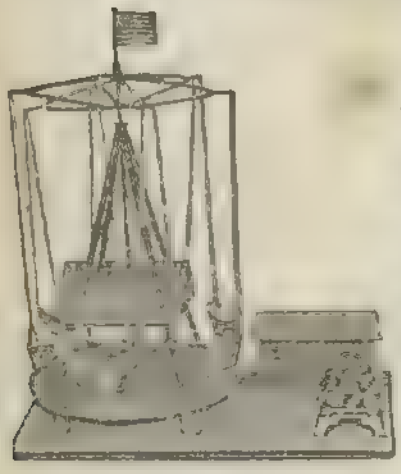
A real Automobile Race Course in Miniature. Cars are 8½ inches long. In exact models of standard racing cars. Bodies are richly enameled in various colors and differently numbered. Wheels have solid rubber tires. Spare tire is carried on the back of every car. Levers and hubs of wheels are nickel plated. Bodies may be removed from chassis; mechanism can be easily reached for cleaning and lubricating. Motor is mechanically and electrically perfect. Current is collected from insulated third rail in track by two revolving shoes, making perfect contact and consuming little current. Front wheels are mounted on flexible truck. Cars will not jump the track when traveling at high speed. Track is made up in circles of 30 inches and 36 inches diameter, one fitting inside the other. Drivers in regulation uniform and starting posts are included with every outfit.

These are novel and original outfits. A single track layout, when running around the base of an illuminated Christmas tree, produces a beautiful effect, while the double track outfits provide unlimited excitement as a race. For window or show-room attraction they are unsurpassed. The outfits can be operated on Dry or Storage Batteries, also from the house current in conjunction with Transformers.

Per Dozen

No. 984—Consists of 8 sections of Curved Track, making a circle 36 inches in diameter, together with 1 car, drivers and starting post; Weight dozen 68 lbs..... **$144.00**

No. 985—Consists of 8 sections of Curved Track, making a circle 30 inches in diameter, together with 1 car, drivers and starting post; Weight dozen 60 lbs..... **144.00**



REVOLVING AIRSHIP

Pressed Steel, Enameled and Decorated in Brilliant Colors and Gold Bronze; As Motor Causes Standard to Revolve, the Gayly Decorated Boats, held Suspended by Gold Steel Wire in Arrangement Design, give the Realistic Effect of Flying Air Ships; Mounted on Base with Rubber Feet, 16x10 inches, Complete with No. 1161 Reversible Motor; Operated with One Dry Cell or on Alternating Current through a Toy Transformer.

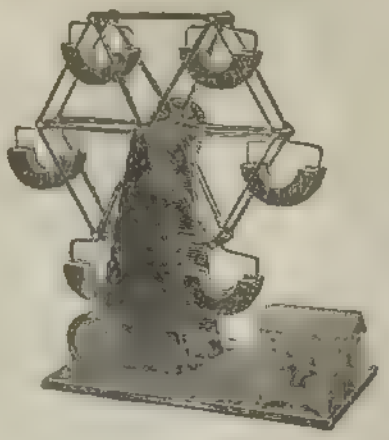
Per Dozen

No. 1162—Height over all 21 inches; Weight per Dozen 72 lbs..... **$78 00**

One in a Package

Batteries Not Included in Above; We Strongly Recommend The No. HD600 For Above.

ELECTRIC TOYS



FERRIS WHEEL

Pressed Steel; Enameled in Brilliant Colors and Decorated in Gold; Operated by Type B Motor, on one Dry Cell or on Alternating Light Current through a Toy Transformer; Wheel with Swinging Carriage, 18 inches in Diameter; Base 16x10 inches, with rubber base.

Per Dozen

No. 1165—Height over all 21 inches; Weight per Dozen 106¼ lbs..**$84 00**

One in a Box

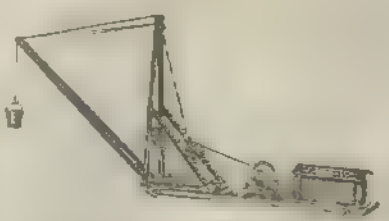
FREIGHT ELEVATOR

Pressed Steel; Enameled in Bright Colors and Gold Bronze; Motor and Counter Shaft are of Iron, Handsomely Finished in Red and Gold; Mounted on Base 20x5½ inches, with rubber base; Operated by Reversible No. 1161 Motor on One Dry Cell, or from Alternating Current through a Toy Transformer. 3¼x5 inch Elevator will carry small weights.

Per Dozen

No. 1163—Height over all 21 inches; Weight per Dozen 50¼ lbs...**$48 00**

One in a Box



DERRICK

Pressed Steel, Enameled in Bright Colors; the Mechanism permits the load to be raised or lowered at will and the arm of derrick to be raised or lowered without stopping Motor; the Power House is Lithographed Pressed Steel and Holds the Dry Battery; Mounted on Base 20x5x5¼ inches; with rubber base; provided with Wheels; Operated by Reversible Type L Motor from One Dry Cell or on Alternating Current through a Toy Transformer.

Per Dozen

No. 1164—Height with Derrick, raised 21 inches; Weight per dozen 48 lbs..... **$54 00**

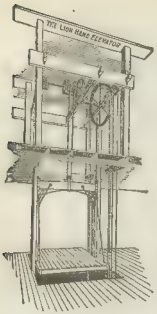
One in a Box

Batteries Not Included in Above; We Strongly Recommend The No. HD600 For Above.

HAND ELEVATORS.

LION.

F. O. B. St. Paul.



Important—In planning for an elevator, remember to keep the edge of the opening six inches from any wall. Opening must be 12 inches larger postwise than platform, and 2 inches from front to back. Pit at lower landing should be about 12 inches deep. Height in upper landing story should be at least 10½ feet, measuring from floor to ceiling.

When ordering, give following information:

Size of platform postwise; size of platform from front to back; number of landings to be served; distance from landing to landing, beginning with the lower one; distance in upper landing story, measuring from floor to ceiling; lifting capacity in pounds; class of goods to be handled; whether right or left hand is wanted; i. e., whether brake and pull rope is on right or left side as you enter the car, cut indicates right hand.

Prices made on Application.

Each

No. 1000—Hand Elevator; center lift, roller bearing, capacity 1,000 pounds; complete with gears, track, platform, rope, wheels and counter-weights; platforms 4x6, 5x6, 5x5 and 6x6 feet; weight about 1,800 lbs; fitted with 25 foot hoist. . . . . .

No. 1500—Hand Elevator; capacity, 1,500 pounds; platforms up to 5x5 feet; 20 foot travel, otherwise same as No. 1000. . . . . .

No. 2000—Hand Elevator; capacity, 2,000 pounds; platforms up to 5x5 feet; 20 foot travel, otherwise same as No 1000. . . . . .

For each additional foot of hoist, add per foot. . . . .
For larger platforms, add per square foot. . . . . .
Counterweights furnished with each car, 100 lb. over balance, additional weights per pound . . . . . .

WAGON JACKS.

COVERT.

Per Dozen

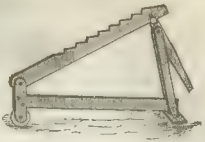
No. 475—Covert. All steel, japanned finish; compound levers: perpendicular hoist; capacity 1,000 pounds; weight per dozen, 66 pounds. **$12.50**

No. 476—Covert. Same as No 475: capacity 2,500 pounds; weight per dozen, 126 lbs . . . **16.00**

For Axle Grease and Axle Washers, see Harness section.

CARRIAGE JACKS.

WOOD.



Made of hard maple, with steel braces at the foot. Folds up close for shipment by removing one bolt.

Rests in front on a wheel and is pushed under the vehicle until the axle rests on the notched bar.

Pulling down the handle will raise from 1 to 3 inches, and locks by pass ng the center

Stained; natural finish.

Each

No. W1—1 inch thick; length 3 ft., height 2½ ft., will raise 1 ton; weight each 11 lbs. **$1.40**

No. W2—1¾ inches thick; length 3 ft., height 2½ ft., will raise 2 tons; weight, each 14 lbs **1.70**

No. W3—1¾ inches thick; length 3 ft., height, 2½ ft., will raise 3 tons; weight each, 17 lbs. **2.30**

Half dozen in a bundle.

LOCOMOTIVE JACK SCREWS.

VULCAN.

Size. Inches.	Hgt. of Stand, Ins.	Height Over All, Ins.	Rise of Screw, Ins.	Cap'y, Tons.	Wgt. Each, Lbs.	Each
1½x8	8	10¾	6⅜	12	14	$4.25
1½x10	10	12¾	7⅜	12	18	4.75
1½x12	12	14¾	9⅜	12	20	5.25
1½x14	14	16¾	11⅜	12	24	6.00
1¾x10	10	13	7½	16	20	5.75
1¾x12	12	15	9½	16	25	6.25
1¾x14	14	17	11½	16	27	6.75
1¾x16	16	19	13½	16	30	7.50
1¾x18	18	21	15½	16	38	8.50
2 x 6	6	9½	3	20	20	5.25
2 x 8	8	11½	5	20	22	6.00
2 x10	10	13½	7	20	25	6.75
2 x12	12	15½	9	20	28	7.50
2 x14	14	17½	11	20	36	8.25
2 x16	16	19½	13	20	39	9.25
2 x18	18	21½	15	20	44	10.25

Each

Levers—For locomotive jack screws: length 18 inches; diameter, ⅝ inch; are cut from ⅝ inch round iron, we find that this length is most practical . . **$0.50**

In bulk.

SINGLE BIT AXES

LIPPINCOTT

Gold Bronzed and Labeled: Polished Bit and Head

Best Grade Cracible Steel Bit, Laid Forged; Hand Tempered and Ground, Soft Steel Body, the Eye is Punched from Soft Steel and will not Shrink nor Break, as Occurs with Rolled or Welded Eyes. The Eye Tapers from the Outer to the Inner Opening; this Holds the Handle Firmly and Prevents Splitting.

In Ordering Axes on this Page, Give Numbers and Weights Only

UNHANDLED

No. L100—LIPPINCOTT, DAYTON PATTERN

Wide Bit; Square Head

Weights, Assorted	3/4	3½/4½	4/5	4½/5½
Per Dozen	$20.34	$20.84	$21 34	$21.84

One Dozen of each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below with Appropriate Styles and Grades of Handles.

The *DIAMOND EDGE* Axe Wedge is Used in Handling This Axe. For Description of Same, [illegible]

Cut shows Handle Broken Open to show the Two Round Slivers Cut by Wedge.

LIPPINCOTT, DAYTON PATTERN (AXE NO. L100)

Gold Bronzed and Labeled; Polished Bit and Head

With Bit; Square Head

Kind of Handle	Weights, Assorted	3/4	3½/4½	4/5	4½/5½
No. L100AAA —With No. AAA Norleigh Diamond Octagon, Plain End	Per Dozen	$27.00	$27 50	$28.00	$28.50
No. L100BBB —With No. BBB Norleigh Diamond Oval, Plain End	"	27.00	27.50	28.00	28.50
No. L100A —With No. A Norleigh Diamond Octagon, Scroll End	"	26.50	27.00	27.50	28.00
No. L100B —With No. B Norleigh Diamond Oval, Scroll End	"	26.55	27.00	27.50	28.00
No. L100BN —With No. BN Norleigh Diamond Oval, Plain End, Light Northern	"	26.50	27.00	27.50	28.00
No. L100C —With No. C Favorite Octagon, Scroll End	"	26.00	26.50	27.00	27.50
No. L100D —With No. D Favorite Oval, Scroll End	"	26.00	26.50	27.00	27.50
No. L100DN —With No. DN Favorite Oval, Plain End, Light Northern	"	26.00	26 50	27.00	27.50
No. L100FH —With No. FH Favorite Octagon, Plain End	"	26.00	26.50	27.00	27.50
No. L100E —With No. E Tip Top Octagon, Plain End	"	25.50	26.00	26.50	27.00
No. L100XE —With No. XE Tip Top Octagon, Straight Pattern	"	25.50	26.00	26.50	27.00
No. L100F —With No. F Tip Top Oval, Plain End	"	25.50	26.00	26.50	27.00
No. L100XF —With No. XF Tip Top Oval, Straight Pattern	"	25.50	26.00	26.50	27.00
No. L100TTN —With No. TTN Tip Top Oval, Plain End, Lt. Northern	"	25.50	26.00	25 50	27.00
No. L100L —With No. L Mound City Oval, Plain End	"	24.00	24.50	25.00	25.50
No. L100PLO —With No. PLO Norleigh Octagon, Plain End	"	24.00	24.50	25.00	25.50
No. L100FO —With No. FO Favorite Oval, Scroll End, Oak	"	25.50	26.00	26.50	27.00
No. L100LO —With No. LO Live Oak, Plain End, Oak	"	25.50	26.00	26.50	27.00

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

SINGLE BIT AXES

*BLACK WONDER, SOLID STEEL

Black Finish

The Black Wonder Axe Represents an Entirely New Departure in Axe Making. They are Made of One Piece of Solid Steel of a Special Formula Tempered Just the Right Hardness to Give Best Results. Farm and Wood Use. The Eye is Punched from the Solid Steel, Insuring Great Strength, as They Will Not Stretch or Break Open, the Eye is Tapered, so as to Hold the Handle Firmly and Prevent its Splitting, the Body and Bit are Forged from One Piece of Steel, the Bit is Tempered to Withstand Severe Usage and will Keep in Good Condition with a little Grinding.

In Ordering Axes on this Page,
Give Numbers and Weights Only

DIAMOND EDGE Axe Wedge Used in All Our Handled Axes. Full Description on Page 3.

UNHANDLED

Black Finish; Ground Bit

No. BW100—DAYTON PATTERN
Wide Bit; Square Head

Weights, Assorted	3/4	3½/4½	4/5
Per Dozen	$18 00	18 50	19 00

No. BW200—MICHIGAN PATTERN
Wide Bit; Round Head

Weights, Assorted	3/4	3½/4½	4/5
Per Dozen	$16 00	16 50	17 00

One Dozen of Each Assortment of Weights in a Box; Average Weight per Box 55 lbs.

HANDLED

The Axes Described Above are Listed Below, Handled with Appropriate Styles and Grades of Handles

THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE.

DAYTON PATTERN (AXE No. BW100)
Black Finish; Ground Bit
Wide Bit; Square Head

	Kind of Handle	Weights, Assorted	3/4	3½/4½	4/5
No. BW100E	With No. E Hickory Oregon, Plain End	Per Dozen	$23.00	$23.50	$24.00
No. BW100XL	With No. XL Hickory Oregon, Straight Pattern	"	23 00	23 50	24.00
No. BW100J	With No. J Hickory Oregon, Plain End	"	23 00	23 50	24 00
No. BW100XT	With No. XT Hickory Oregon, Straight Pattern	"	23.00	23 50	24 00
No. BW100TTN	With No. TTN Hickory Oval, Plain End, Light Northern	"	23.00	23.50	24.00
No. BW100L	With No. L Mexican Oval, Plain End	"	22 00	22 50	23 00
No. BW100M	—With No. M Southland Oval, Plain End	"	21 00	21 50	22 00
No. BW100N	—With No. N Mizzou Oval, Plain End	"	20.00	20.50	21 00

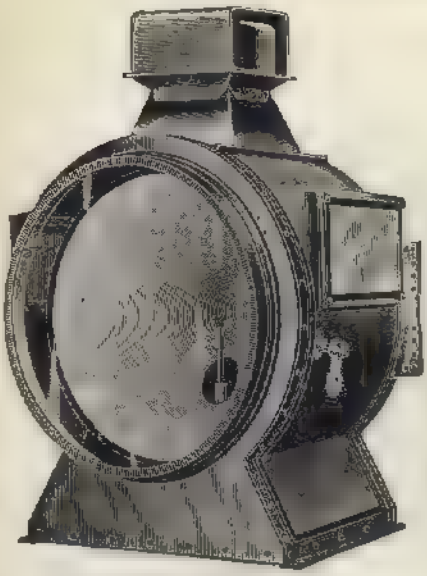
THE *DIAMOND EDGE* AXE WEDGE IS USED IN HANDLING THIS AXE

MICHIGAN PATTERN (AXE No. BW200)
Black Finish; Ground Bit
Wide Bit; Round Head

	Kind of Handle	Weights, Assorted	3/4	3½/4½	4/5
No. BW200E	—With No. E Hickory Oregon, Plain End	Per Dozen	$23 00	$23 50	$24 00
No. BW200XL	With No. XL Hickory Oregon, Straight Pattern	"	23 00	23 50	24 00
No. BW200J	With No. J Hickory Oregon, Plain End	"	23 00	23 50	24 00
No. BW200XT	With No. XT Hickory Oregon, Straight Pattern	"	23 00	23 50	24 00
No. BW200TTN	With No. TTN Hickory Oval, Plain End, Light Northern	"	23 00	23 50	24.00
No. BW200L	With No. L Mexican Oval, Plain End	"	22 00	22 50	23 00
No. BW200M	—With No. M Southland Oval, Plain End	"	21 00	21 50	22 00
No. BW200N	With No. N Mizzou Oval, Plain End	"	20 00	20 50	21 00

One Dozen of Each Assortment of Weights in a Crate; Average Weight per Crate 75 lbs.

Acetylene Gas Headlights for Locomotives



No 1395B

No. 1395B

Made in 16, 18, 20 and 23-inch size. A strong and substantial headlight. Gas generator for above shown on page 225

For prices, see page 228.

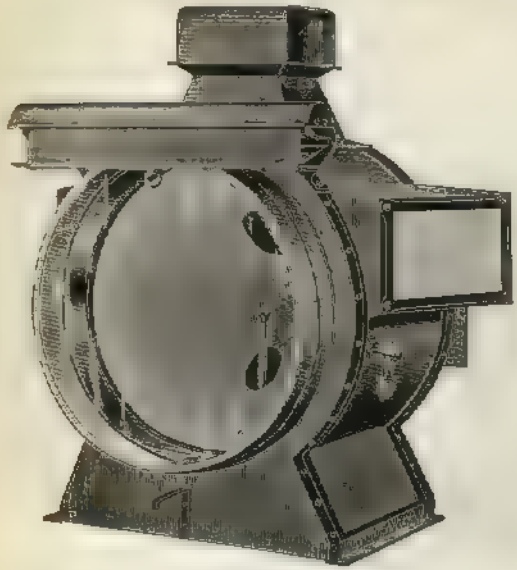
No. 1396B

Made in 16, 18, 20 and 23-inch size. Same as No 1395B except without side number frames. Gas generator for above shown on page 225.

For prices, see page 228.

No. 1396B

Acetylene Gas Headlights for Locomotives



No. 1419B

No. 1419B

Made in 16 and 18-inch sizes. Known as "Harriman Lines" Standard. Furnished with curtains only when ordered Gas generator for above shown on page 225

For prices, see page 228

No. 1043B

Furnished with or without hangers Made in 12-inch size only. Gas generator for above shown on page 225.

For prices, see page 228.

No. 1043B

Weights and Dimensions of Headlights

No. Head Light	Size Head Light Inches	Bowl Bottom Depth Width Inches	Extreme Height Inches	Glass Opening Inches	Approximate Packing Weights — Domestic Net Pounds	Domestic Gross Pounds	Export Net Pounds	Export Gross Pounds	Dimensions Case Inches	Cubic Feet
1419	16	13 3/4 x 20	31 1/4	16	63	109	63	138	33x34x21	14 68
1419	18	14 3/4 x 21 3/4	34	19	74	120	74	175	38x36x24	19 00
1591	18	16 1/4 x 20	32	19	79	119	79	166	35x30x25	15 19
1422	18	14 3/4 x 21 3/4	34 3/4	19	81	128	81	171	37x27x29	16 76
1422	20	16 1/4 x 23 3/4	37	20	97	150	97	205	40x31x28	20 09
1448	16	13 3/4 x 20	31 5/8	16	70	88	70	135	35x28x19	10 77
1448	18	14 3/4 x 21 3/4	34 3/4	19	86	130	85	180	38x29x20	12 75
1448	20	16 1/4 x 23 3/4	37	20	95	140	95	205	40x31x24	18 36
1448	23	19 3/4 x 24 3/4	39 3/4	23	115	150	115	230	44x33x26	21 84
1410	6	13 1/4 x 20	31 1/4	16	62	92	62	130	35x24x18	11 11
1416	18	14 3/4 x 21 3/4	34	19	70	112	70	165	39x28x30	17 804
1416	20	16 1/4 x 23 3/4	37	20	88	134	88	183	41x31x33	24 272
1416	23	19 3/4 x 24 3/4	39 3/4	23	101	160	101	230	44x32x34	27 703
1414 5-6	16	13 1/4 x 20	31 1/4	16	71	81	64	127	35x28x19	11 77
1414 5-6	18	14 1/4 x 21 3/4	34	19	71	96	71	155	39x30x20	12 78
1414 5-6	20	16 1/4 x 23 3/4	37	20	85	110	85	178	41x31x24	18 18
1414 5-6	23	19 3/4 x 24 3/4	39 3/4	23	95	140	105	210	44x32x26	21 84
6	14	9 x 15 1/2	28	14	37	60	111	223	43x15x34	18 9
583A,	16	11 x 24	32	17 1/2	54	70	54	115	35x25x18	10 20
583A	18	11 x 24	32	17 1/2	54	70	54	115	35x25x18	10 20
583A	20	13 x 24	37 1/2	20 3/4	68	85	68	150	41x30x20	14 44
583A	23	15 x 23	39	23	75	120	75	165	45x31x21	18 19
1043	12	9 1/2 x 16	21	12	22	90	75	100	41x24x19	10 81

Acetylene gas headlights same as above.

Oil and Acetylene Gas Headlights

Prices

Page	No	Size Inches	List Price Each	Page	No	Size Inches	List Price Each
210	1531	18	$ 68 00	217	583	16	$50 00
211	1531C	18	75 00	217	583	18	50 00
212	1634	18	84 00	217	583	20	65 00
206	1596	18	86 00	217	583	23	80 00
208	1596D	18	110 00	218	584	16	50 00
213	1419	18	60 00	218	584	18	50 00
213	1581	18	60 00	218	584	20	65 00
214	1422	18	66 00	218	584	23	80 00
214	1422	20	78 00	218	1043	12	36 00
214	1448	16	62 00	219	545	12⅝	34 00
214	1448	18	68 00	219	546	10¾	25 00
214	1448	20	74 00	220	1453	6	15 00
214	1448	23	86 00	220	560	10⅜	18 00
215	1416	16	62 00	221	545B	12⅝	30 00
215	1416	18	68 00	221	6B	14	36 00
215	1416	20	75 00	222	584B	16	46 00
215	1416	23	84 00	222	584B	18	50 00
216	1394	16	58 00	222	584B	20	64 00
216	1394	18	60 00	222	584B	23	80 00
216	1394	20	70 00	223	1395B	16	48 00
216	1394	23	80 00	223	1395B	18	52 00
216	1395	16	58 00	223	1395B	20	58 00
215	1395	18	60 00	223	1395B	23	64 00
215	1395	20	70 00	223	1396B	16	46 00
215	1395	23	80 00	223	1396B	18	50 00
216	1396	16	56 00	223	1396B	20	56 00
216	1396	18	58 00	223	1396B	23	60 00
216	1396	20	68 00	224	1414B	16	70 00
216	1396	23	78 00	224	1414B	18	78 00
217	6	14	39 00	221	1043B	12	36 00

Headlight generators ..... each $56 00

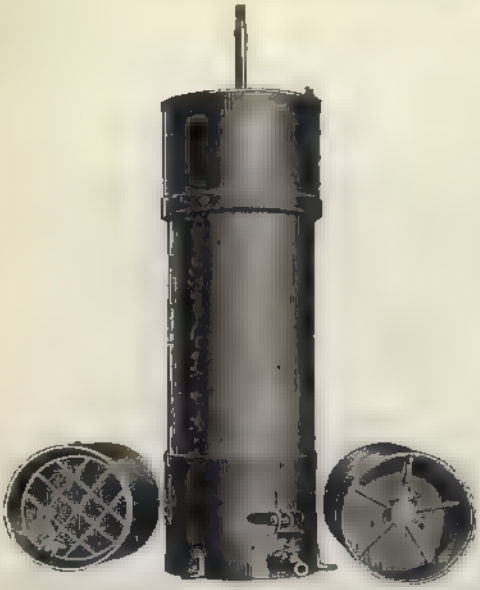
Anti-freezing jacket for same. ..... each 7 00

Acetylene gas fixture ..... per set 12 00

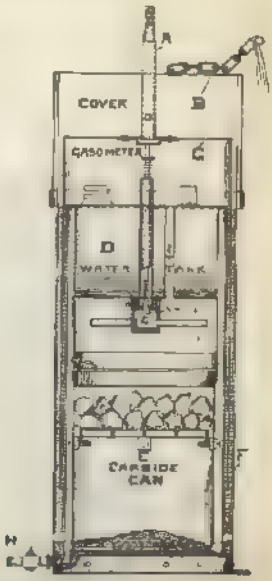
Discount

Headlight Acetylene Gas Generator

Especially Adapted to Locomotive Headlight Lighting



Shows Generator with Carbide Can and Water Tank



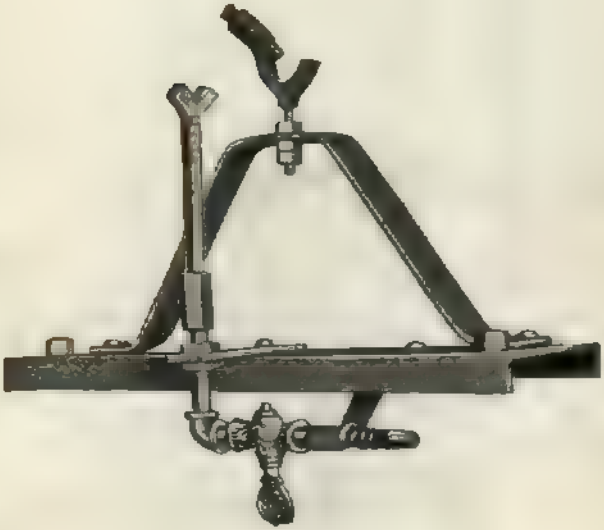
Cross Section of Generator

Anti-freezing Jacket for Generator, Furnished Only when Ordered

For prices, see page 228

Acetylene Gas Fixture

Adapted to Either Round or Square Case Headlights

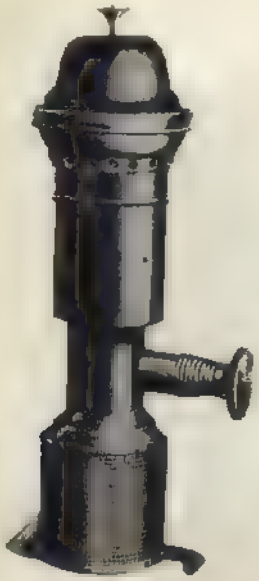


These fixtures as shown are adaptable to any size round oil headlight case when converted to gas burning headlights

For prices, see page 228.

Improved Burners for Locomotive Oil Headlights

These burners are designed to meet present requirements in which much higher candle power is a potent factor.



No. 107

No. 105

Takes Nos. 93 or 94 chimney. Circular felt wick $1\frac{1}{16}$ x $4\frac{1}{2}$ inches

For repair parts, see page 237

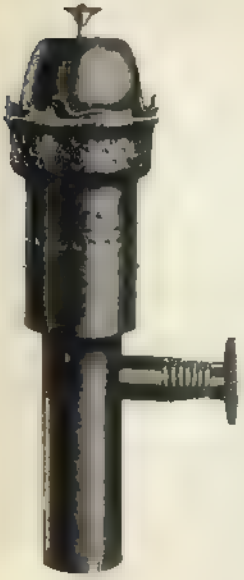
No. 106

Takes Nos. 93 or 94 chimney. Circular felt wick, $1\frac{3}{16}$ x $4\frac{1}{2}$ inches.

For repair parts, see page 237

No. 106

Improved Burners for Locomotive Oil Headlights



No. 107

No. 107

Takes No. 32 Belgian chimney. Circular felt wick, 1¾ x 4½ inches.

For repair parts, see page 237.

No. 108

Takes No. 32 Belgian chimney. Circular felt wick, 1$\frac{3}{16}$ x 4½ inches.

For repair parts, see page 237

No. 108

Improved Burners for Locomotive Oil Headlights

No. 35
Self Feed

No. 35 Self Feed

Takes Nos. 93 or 94 chimney, see page 150
Circular felt wick, $1\frac{7}{8}$ x $4\frac{1}{2}$ inches

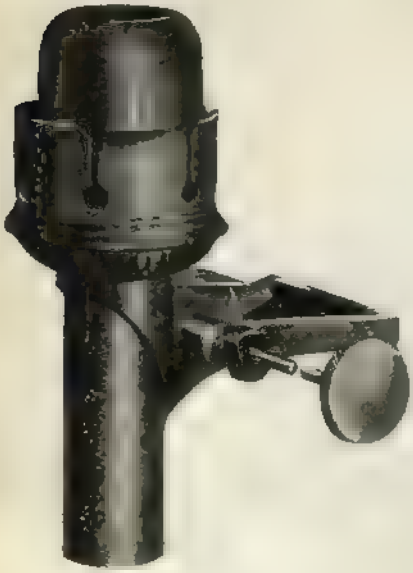
For repair parts, see page 239.

No. 14 Center Draft

Takes No. 102A chimney, see page 150 Circular felt wick, $1\frac{3}{32}$ x $3\frac{1}{2}$ inches

No. 14
Center Draft

Improved Burners for Locomotive Oil Headlights



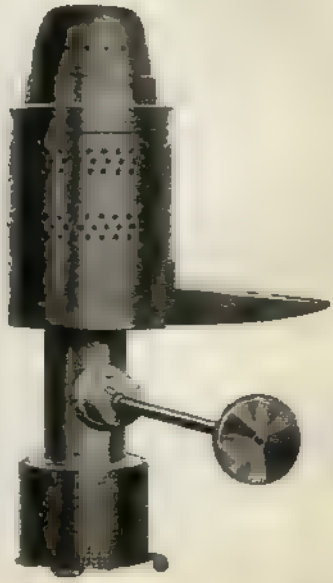
No. 92
Center Draft

No. 92 Center Draft

Takes No. 87 chimney, see page 149 Circular wick, $\frac{11}{16}$ x 5 inches

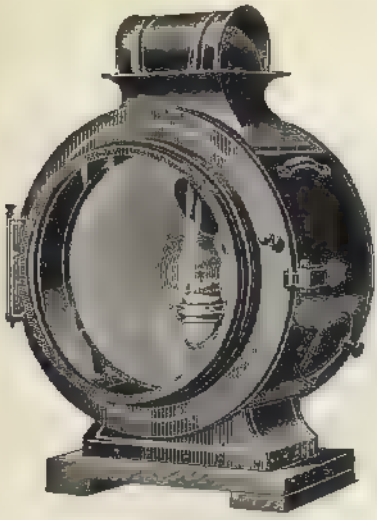
No. 96 Ham Burner

Takes No. 87 chimney, see page 149 Circular wick, $\frac{11}{16}$ x 5 inches



No. 96
Ham Burner

Locomotive Oil Headlights



No. 6

No. 6

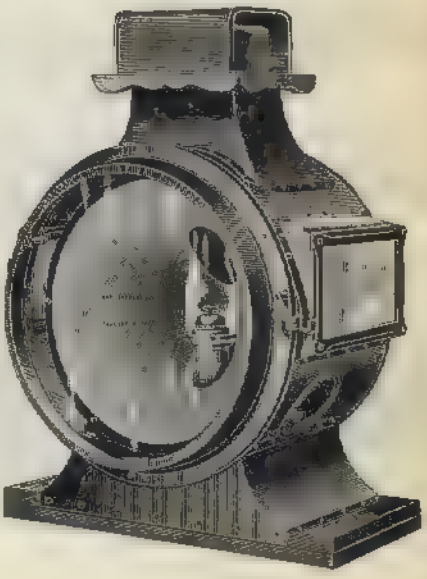
For small locomotives. Made in 14-inch size only. If desired with side numbers, order No. 1510. Takes No. 8 burner, see page 231. Takes No. 90 chimney, see page 149

For prices see page 228

No. 583

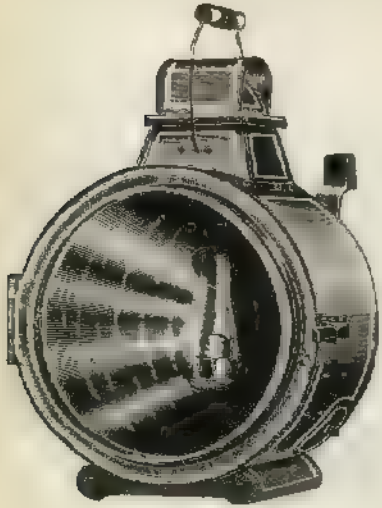
Made in 16, 18, 20 and 23-inch size. A cheap but durable headlight. Takes No. 23 burner, see page 231. Takes No. 90 chimney, see page 149

For prices, see page 228



No. 583

Locomotive Oil Headlights



No 1043

No. 1043

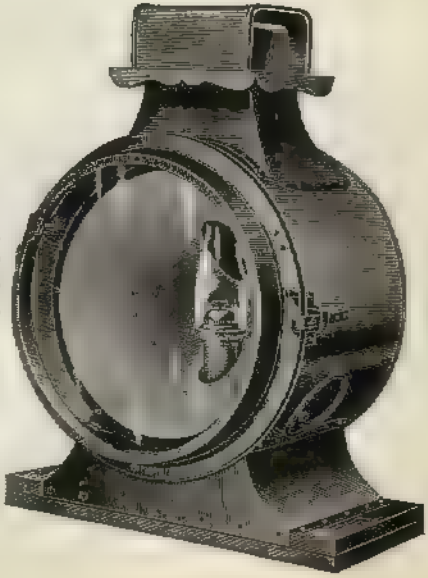
Made in 12 inch size only. Furnished with or without brackets to suspend, as ordered. Takes No. 92 burner, see page 236. Takes No. 87 chimney, see page 149

For prices, see page 228.

No. 584

Made in 16, 18, 20 and 23-inch size. Same as No 585 except without side numbers. Takes No. 23 burner, see page 231. Takes No. 90 chimney, see page 149.

For prices, see page 228.



No 584

Locomotive Oil Headlights

No. 1416

No. 1416

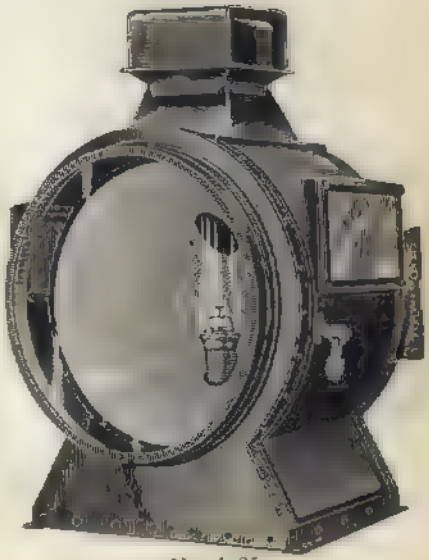
Made in 16, 18, 20 and 23-inch size. Side door hinged to either back or front. Front cover or curtain furnished only when ordered. Takes No. 5 burner, see page 231. Takes No. 94 chimney, see page 150.

For prices, see page 228

No. 1395

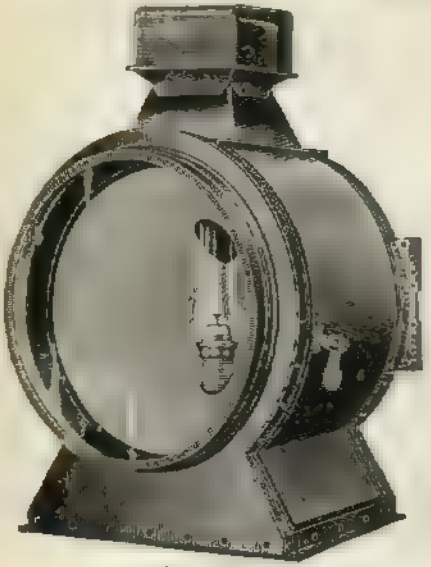
Made in 16, 18, 20 and 23-inch size. Side door hinged either back or front. Front cover or curtain furnished only when ordered. Takes No. 5 burner, see page 231. Takes No. 94 chimney see page 150

For prices, see page 228



No. 1395

Locomotive Oil Headlights



No. 1396

No. 1396

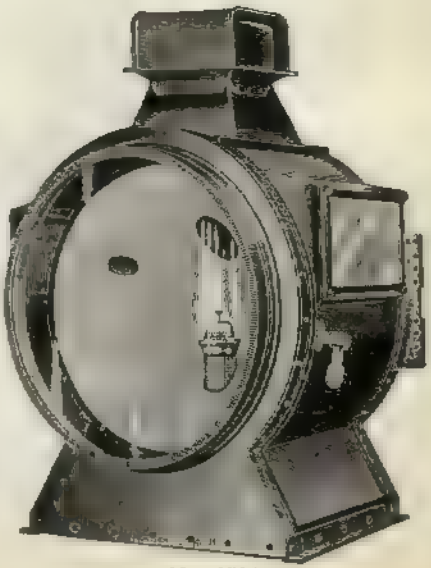
Made in 16, 18, 20 and 23-inch size. Side door hinged front or back. Takes No. 5 burner, see page 231. Takes No. 94 chimney see page 150

For prices, see page 228

No. 1394

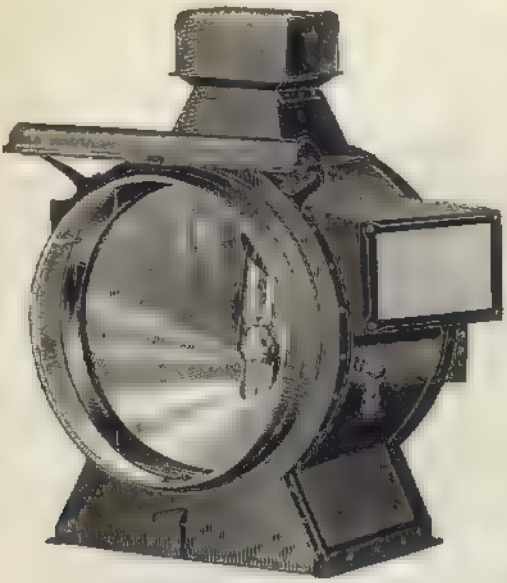
Made in 16, 18, 20 and 23 inch size. Same as No. 1395, except has holes in side of reflectors to furnish additional illumination to side numbers. Takes No 5 burner, see page 231. Takes No 94 chimney, see page 150

For prices, see page 228



No. 1394

Locomotive Oil Headlights



No 1419

No. 1419

Made in 16 and 18-inch Has inclined side number device. Curtains furnished only when ordered. Takes No. 5 burner, see page 231. Takes No. 94 chimney, see page 150

For prices see page 228

No. 1581

Made in 18-inch size only Furnished with hinged front door. Front cover when desired. Takes No. 6 burner, see page 231. Takes No 94 chimney, see page 150

For prices see page 228

No 1581

Locomotive Oil Headlights

No. 1422

No. 1422

Made in 18 and 20-inch size. Has inclined front lessening breakage of front glass. Front cover furnished only when ordered Takes No. 5 burner, see page 231 Takes No. 94 chimney, see page 150

For prices, see page 228

No. 1448

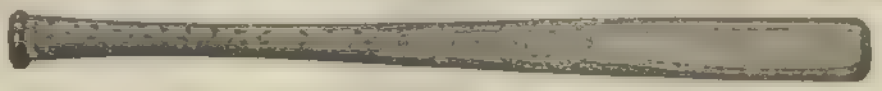
No. 1448

Made in 16, 18, 20 and 23-inch size. Has hinged front door. Front cover or curtain furnished only when ordered. Takes No 5 burner see page 231 Takes No 94 chimney, see page 150

For prices, see page 228

LOUISVILLE SLUGGER BATS

Made by hand of extra selected second growth, Northside Mountain White Ash, Straight Grain. Are Exact Duplicates of Models used by Leading Sluggers of the Base Ball World

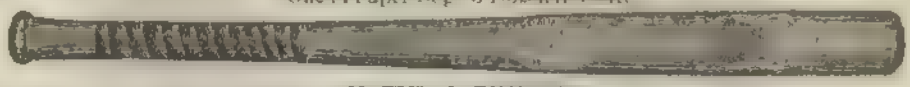


KORK GRIP — Per Dozen

No. 40K —Major League Special. The yielding character of cork affords a perfect grip, eliminates the vibration, absorbs perspiration and will not warp or shrink in the hands. Golden Mottled finish. Assorted autograph transfers of Louisville Sluggers on barrel end of bat. Assorted models and lengths, 32 to 36 inches, Weight per Dozen about 38 lbs. $24 00

No. 45K Same as No. 40K, made one model only, without players autograph, 34 ins, Youth's size 32 inches Long. Weight per Dozen about 30 lbs. 18.00

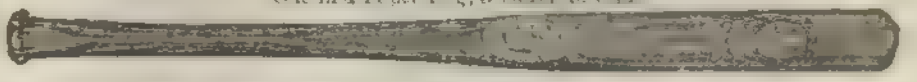
One in Paper Bag; 3 Dozen in Case



NATURAL FINISHED

No. 40 Natural Finish, highly polished with transfer; Assorted Models and Weights; Length 32 to 36 inches. Taped Handle. Weight Dozen about 34 lbs. $16 00

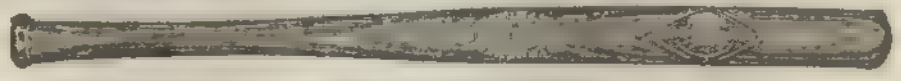
One in a Paper Bag; 3 Dozen in Case



TY COBB MODEL — Per Dozen

No. 40TC —Highly Polished, flame burnt finish; Thin Handle with graduated taped barrel. None genuine without registered trade mark photo and autograph transfer of Ty Cobb. Length 32 to 36 inches, Assorted Weights, Weight per Dozen about 32 lbs. $18 00

One in a Paper Bag; 3 Dozen in Case



FRANK BAKER MODEL — Per Dozen

No. 40FB —Highly Polished, Golden Mottled finish. None genuine without registered trade mark photo and autograph transfer of Frank Baker; Length 33 to 35 inches; Weight per Dozen about 32 lbs. $18.00

One in a Paper Bag; 3 Dozen in a Case

NAPOLEON LAJOIE MODEL — Per Dozen

No. 40L —Highly Polished, Golden Mottled Finish, None genuine without registered trade mark photo and autograph transfer of Napoleon Lajoie; Length 32 to 36 inches; Weight per Dozen about 32 lbs. $18 00

One in Paper Bag; 3 Dozen in Case

TRIS SPEAKER MODEL — Per Dozen

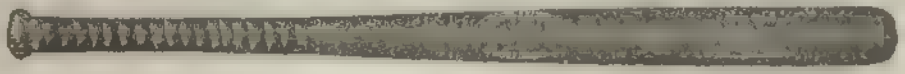
No. 40TS—Highly Polished; Special flame burnt golden finish. None genuine without registered trade mark photo and autograph transfer of Tris Speaker, Length 33 to 36 inches, Assorted Weights, Weight per Dozen about 32 lbs. $18 00

One in Paper Bag; 3 Dozen in Case

JOE JACKSON — Per Dozen

No. 40JJ —Highly Polished Special Dark Finish. Medium size taped handle; None genuine without registered trade mark photo and autograph of Joe Jackson, Length 33 to 35 inches, Assorted Weights; Weight per Dozen about 32 lbs. $18 00

One in Paper Bag; 3 Dozen in Case



BURNISHED FINISH, TAPED — Per Dozen

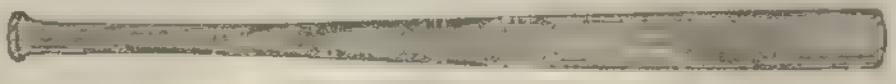
No. 40B —Burnished giving it a hardened surface and preserving the timber; Length 33 to 36 inches. Assorted Weights, With Transfer and taped; Weight per Dozen about 32 lbs. $16 00

One in a Paper Bag, 3 Dozen in Case

OIL TEMPERED, GOLDEN FINISH — Per Dozen

No. 125 Professional, Oil Tempered Finish; Hand Cured; Twelve Assorted Models, Lengths 32 to 36 inches, Assorted Weights, Weight per Dozen about 33 lbs. $18 00

One in Paper Bag, 3 Dozen in Case



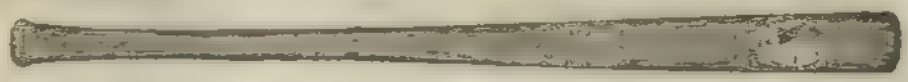
EDDIE COLLINS MODEL — Per Dozen

No. 40EC —Highly Polished Golden Mottled Finish; Small Handle with graduated taped barrel, None genuine without registered trade mark photo and autograph transfer of Eddie Collins, Length 33 to 36 inches, Weight per Dozen about 32 lbs. $18 00

One in Paper Bag; 3 Dozen in Case

LOUISVILLE SLUGGER BATS

Made by Hand of Extra Selected Seasoned Straight Grain Northern Ash, Scientifically Turned, and are Exact Duplicates of Models as Used by all the Leading Sluggers of the Base Ball World.

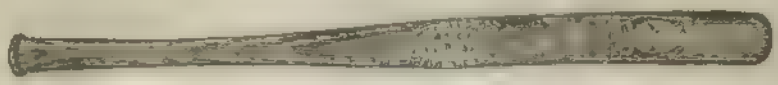


JAKE DAUBERT MODEL

Per Dozen

No. 40JD—Thin Handle, Well Balanced Body, New Brown Finish Finish, None Genuine without Registered Trade-Mark, Photo and Autograph Transfer of Jake Daubert; Length 33 to 36 inches; Assorted Weights; Weight per Dozen about 30 lbs. **$18 00**

One in a Paper Bag—3 Dozen in a Crate

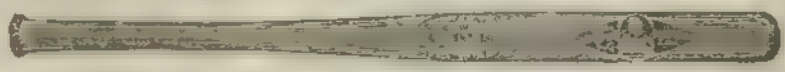


TY COBB MODEL

Per Dozen

No. 40TCJ—Highly Polished, Flame Burnt Finish, None Genuine without Registered Trade Mark, Photo and Autograph Transfer of Ty Cobb. Length 32 inches. Weight per Dozen about 30 lbs. **$8.00**

One in a Paper Bag—3 Dozen in a Crate



HANS WAGNER, JUNIOR MODEL

Per Dozen

No. 40WJ—Highly Polished, Mottled Finish. Has More Hitting Surface than the Average Bat. Medium Size Handle and Well Balanced. None Genuine without Registered Trade Mark, Photo and Autograph Transfer of Hans Wagner. Length 33 Inches. Weight per Dozen about 27 lbs. **$8 00**

One in a Paper Bag—3 Dozen in a Crate

CORK BALL BATS

★PROFESSIONAL

Per Dozen

No. CBB25—Best Quality Ash; Burnished Surface; Length 33 Inches; Weight per Dozen 8 lbs. **$5 50**

Loose

★AMATEUR

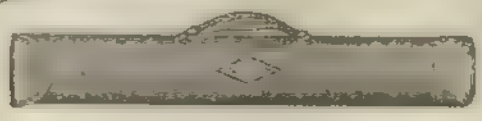
Per Dozen

No. CBB10—Good Quality Straight Grained Ash; Polished Surface; Length 33 Inches; Weight per Dozen 9 lbs. **$2 40**

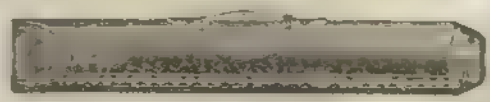
Loose

BAT BAGS

★DIAMOND BRAND



INDIVIDUAL SIZE



CANVAS — Each

No. 2C—For One or Two Bats; Extra Heavy Brown Waterproof Canvas; Heavy Pebble Grain Calf Russet Leather Ends; Strongly Sewed with Waxed Linen Thread; Interior Leather Lined; Flap to Fold Over, Double Leather Fastening Strap with Tinned Buckle; Flat Double Sole Leather Handle; Size 36x8x2½ inches; Weight 1 lb. **$3.00**

One in a Package

LEATHER — Each

No. 2L—For One or Two Bats; Finest Quality Heavy Russet Bridle Leather; Fancy Hand Stamped Border; Mail Bag Style Bottom and Entrance; Strongly Sewed with Waxed Linen Thread; Flap Cover; Leather Fastening Strap with Tinned Buckle; Flat Double Sole Leather Handle; Size 36x8x2½ inches; Weight 1⅝ lbs. **$7.00**

One in a Package

CLUB SIZE

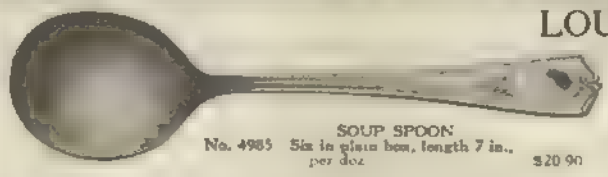
CANVAS — Each

No. 12C—For Twelve Bats; Extra Heavy Brown Waterproof Canvas; Heavy Pebble Grain Calf Russet Leather Ends; Strongly Sewed with Waxed Linen Thread; Interior Leather Lining; Flap to Fold Over, Double Leather Fastening Strap with Tinned Buckles; Round Leather Handles; Size 36x9 inches; Weight 3 lbs. **$7 00**

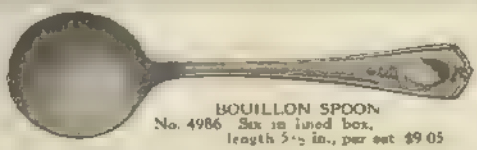
One in a Package

COMMUNITY PLATE

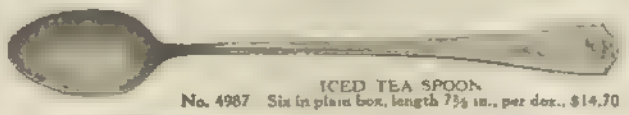
LOUIS XVI



SOUP SPOON
No. 4985 Six in plain box, length 7 in., per doz $20 90

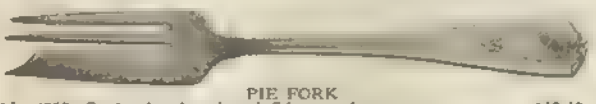


BOUILLON SPOON
No. 4986 Six in lined box, length 5½ in., per set $9 05



ICED TEA SPOON
No. 4987 Six in plain box, length 7¾ in., per doz., $14.70

ORANGE SPOON
No. 4988 Six in lined box, length 5½ in., per set.... $7 35

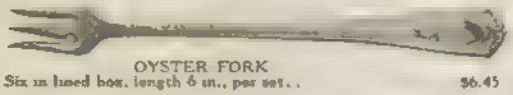


PIE FORK
No. 4989 Six in plain box, length 7 in., per doz $19 10

ICE CREAM FORK
No. 4990 Six in lined box, length 5½ in., per set $7 30

LEMON OR RELISH FORK
No. 4991 One in lined box, length 4¾ in., each... $2.05

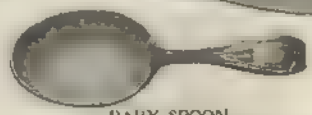
FLAT HANDLE BUTTER SPREADERS
No. 4992 Six in lined box, length 6¼ in. per set $7 70



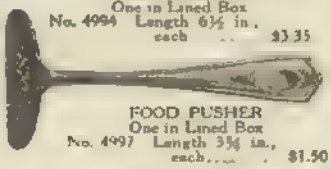
OYSTER FORK
No. 4993 Six in lined box, length 6 in., per set.. $6.45

HOLLOW HANDLE CHEESE SERVER
One in Lined Box
No. 4994 Length 6½ in., each $3 35

HOLLOW HANDLE FRUIT KNIFE
No. 4995 Six in lined box, length 6⅝ in., per set... $15 05



BABY SPOON
Bent Handle, One in Lined Box
No. 4996 Length 5 in., each $1 50

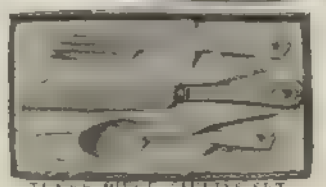


FOOD PUSHER
One in Lined Box
No. 4997 Length 3¾ in., each... $1.50

SUGAR TONGS
No. 4998 One in lined box, length 4⅛ in., each $2 75

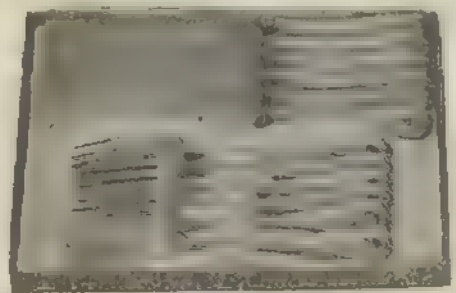
HOLLOW HANDLE PIE SERVER
No. 4999 One in lined box, length 10 in., each $5.70

SMALL CARVING SET
Knife and Fork, in lined box
No 5000 Length of Knife, 9⅛ in., each $10 00



THREE PIECE CARVING SET
Knife, Fork and Spoon
No. 5001 H H Knife, length 7½ in. set $6 00
No. 5002 Flat H Knife, lgth. 7½ in. set 4 95

BUTTER AND SUGAR SET
No 5003 One in lined box, lgth of knife 7 in. per set $3 3



12 PIECE HOLLOW HANDLE KNIVES AND FLAT FORK SETS

No. 5004	6 Flat Med. Forks and 6 H H Med. Knives per set	$26 40
No. 5005	6 Flat Des. Forks and 6 H H Des. Knives per set	25 20
No. 5006	6 Flat Med. Forks and 6 H H Semi Swag Med. Knives set	26 55
No. 5007	6 Flat Des. Forks and 6 H H Breakfast Knives per set	25 35

LARGE CARVING SET
Knife, Fork and Steel, in Lined Box
No 5008 Length of knife, 14⅝ in., per set $21 15

LOUIS XVI DESIGN

COMMUNITY PLATE

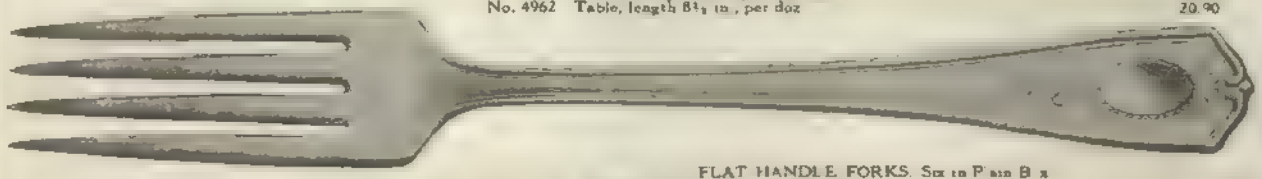
The Louis XVI with its graceful lines and delicacy of ornament well exemplifies the golden epoch of the French Renaissance—classic in its conception, but enlivened by just a touch of that spirit of blithe freedom which is France.

SPOONS
Six in Lined Box

No. 4958	After Dinner Coffee Spoons, length 4 ⅛ in., per doz	$10.45

Six in Plain Box

No. 4959	Five O'Clock Tea, length 5 in., per doz	10.45
No. 4960	Tea, length 5 ⅛ in., per doz	10.45
No. 4961	Dessert, length 7 in., per doz	19.10
No. 4962	Table, length 8⅛ in., per doz	20.90



FLAT HANDLE FORKS. Six in Plain Box

No. 4963	Medium, length 7 ⅛ in., per doz	$20.90
No. 4964	Dessert, length 7 in., per doz	19.10

HOLLOW HANDLE KNIVES. Six in Flannel Roll

No. 4965	Medium, length 9¼ in., per doz	$30.90
No. 4966	Dessert, length 8 ⅛ in., per doz	30.05
No. 4967	Medium, Scimitar and Sweged, length 9¼ in., per doz	31.15

HOLLOW HANDLE BREAKFAST KNIVES

No. 4968	Six in flannel roll, length 8⅞ in., weight 1 lb. 5 oz., per doz.	$30.35

HOLLOW HANDLE FORKS. Six in Flannel Roll

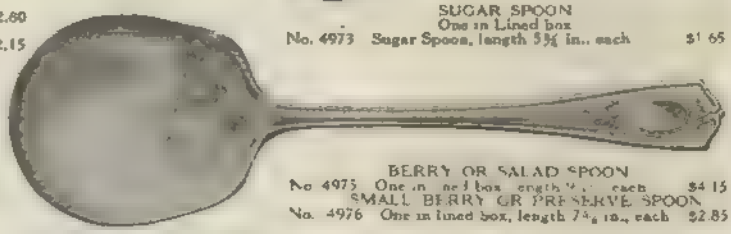
No. 4969	Medium, length 7¼ in., per doz	$30.90
No. 4970	Dessert, length 7⅛ in., per doz	30.05

COLD MEAT FORK
No. 4971 One in lined box, length 8⅛ in., each $2.60

SMALL COLD MEAT FORK
No. 4972 One in lined box, length 6⅛ in., each $2.15

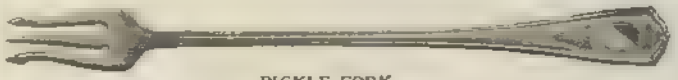
SUGAR SPOON
One in Lined box
No. 4973 Sugar Spoon, length 5¾ in., each $1.65

INDIVIDUAL SALAD FORKS
No. 4974 Six in lined box, length 6⅛ in., per set $9.45

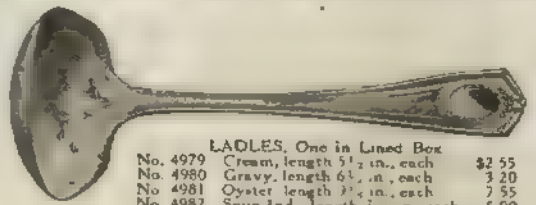


BERRY OR SALAD SPOON
No. 4975 One in lined box, length 9¼ in., each $4.15

SMALL BERRY OR PRESERVE SPOON
No. 4976 One in lined box, length 7⅛ in., each $2.85



PICKLE FORK
No. 4977 One in lined box, length 8⅛ in., each $2.05



BUTTER KNIFE. One in Lined Box
No. 4978 Butter Knife, length 7½ in., each $1.75

LADLES. One in Lined Box

No. 4979	Cream, length 5½ in., each	$2.55
No. 4980	Gravy, length 6½ in., each	3.20
No. 4981	Oyster, length 7⅛ in., each	7.55
No. 4982	Soup Ind., length 7½ in., each	5.90
No. 4983	Med. Soup, length 10⅝ in., each	9.60
No. 4984	Hollow Handle Punch, length 15⅝ in., each	15.45

LOUIS XVI DESIGN

Lunkenheimer Bronze Whistles

For 200 Pounds W. S. P.

Fig. 894
Plain

Fig. 896
"Mocking-bird"

Fig. 898
Single Bell Chime

Most efficient and durable whistles made. Each whistle is carefully tested and inspected before shipment. Clear, bell like tones, such as can be heard from quite a distance, are assured

Price List

Diameter of Bell Inches	Plain Pattern With Valve Each	Plain Pattern Without Valve Each	"Mocking bird" With Valve Each	"Mocking bird" Without Valve Each	Single Bell Chime With Valve Each	Single Bell Chime Without Valve Each	Pipe Connections Inches
1	$ 3 10	$ 2 20					1/4
1¼	3 75	2 75					1/4
1½	4 00	3 00			$ 7 00	$ 5 50	3/8
2	5 50	4.35			10 00	8 50	1/2
2½	7 40	5 25	$10 50	$ 9 00	13 00	10 50	3/4
3	8 50	7 25	14 00	12 00	16 00	13 50	3/4
3½	13 50	9 50	20 00	17 50	22 00	18 50	1
4	16 50	12 00	28 00	25 00	28 00	24 00	1 1/4
5	27 50	21 20	40 00	37 00	44 00	37 00	1 1/2
6	37 50	31 00	56 00	50 00	60 00	48 00	1 1/2
8	95 00	70 00			145 00	120 00	2
10		150.00				188 00	2 1/2

Governors

Gardner Governors

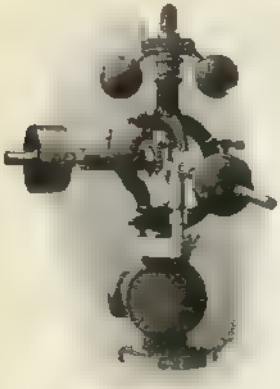


Fig. 887
Standard Governor

Fig. 889
Spring Governor

Price List of Standard Class "A" Governors

Size of Governor Diam. of Operating Inches	Class "A" Plain Each	Class "A" Finished Each	Shipping Weight Pounds	Size of Governor Diam. of Operating Inches	Class "A" Plain Each	Class "A" Finished Each	Shipping Weight Pounds	Size of Governor Diam. of Operating Inches	Class "A" Plain Each	Class "A" Finished Each	Shipping Weight Pounds
1¼	$24 50	$27 50	60	3	$ 70 00	$ 80 00	180	7	$ 70 00	$186 00	380
1	29 50	50	65	4	92 00	260	8	210 00	230 00	700
2	36	40 00	100	4½	07 00	272	247	260 00	900
2¼	48	97 00	110	100 00	121 00	440	10	270 00	290 00	1275
2½	48	53 00	130	5	140 00	154 00	500	12	325 00	355 00	1500
2	5	67 00	150								

In ordering, state whether plain or finished is desired. Prices of sizes from 1 to 1 inches, inclusive will be sent on application.

Price List of Classes "A" and "B" Spring Governors

Size of Governor Diam. of Operating Inches	Class "A" Plain Each	Class "A" Finished Each	Shipping Weight Pounds	Size of Governor Diam. of Operating Inches	Class "A" Plain Each	Class "A" Finished Each	Shipping Weight Pounds	Size of Governor Diam. of Operating Inches	Class "A" Plain Each	Class "A" Finished Each	Shipping Weight Pounds
½	$16	$18 50	19	2	$38 00	$40 00	75	4	$ 83 00	$ 93 00	230
¾	18	20	20	2½	42 00	47 00	80	4½	96 00	107	240
1	21	23	22	3	48	53	120	5	109	121	300
1¼	24 50	27 50	43	3	7	74		6	140	154	420
1½	28 50	31 50	55	3½	71 00	80 00	150	7	170 00	186 00	500

Size of Governor Diam. of Operating Inches	Class "B" Plain Each	Class "B" Finished Each	Shipping Weight Pounds	Size of Governor Diam. of Operating Inches	Class "B" Plain Each	Class "B" Finished Each	Shipping Weight Pounds	Size of Governor Diam. of Operating Inches	Class "B" Plain Each	Class "B" Finished Each	Shipping Weight Pounds
½	$14	$16 00	15		$ 0	$34 00	70	4	$ 71 00	$ 81	215
¾	16	18 06	17		5	40 00	72	4½	83 00	94 00	230
1	18	20 06	20		40	45 00	115	5	94 00	106 00	290
1¼	21 00	24 00	40	3	50	58 00	130	6	122 00	138 00	400
1½	25	29 06	50	3½	60	69 00	140	7	150 00	166	475

Class "B" is without automatic stop and Class "A" with automatic stop.

SEIBERT.

The Seibert Magic Fly Killer contains an effective fly poison. Flies and other insects are attracted to it by five sweetened wicks, partake of the liquid and soon die. Each killer is sufficiently charged with a fly killing material to last all season. The bottom and sides being made in one piece prevents leakage. It has a protective rim on top which prevents overflow. Without this feature a tin placed where exposed to the sun will draw excessive water and overflow

Directions—Uncork and fill with water.

Per Dozen

No. 1MFK—Magic Fly Killer; diameter, 4¾ inches; depth, ½ inch; packed one dozen in a counter display carton; weight per carton, 2 lbs. **$2.50**

POISON FLY PAPER.

SEIBERT.

A sure fly killer put up in an attractive display box, holding fifty envelopes, each envelope containing eight sheets of paper

Per Carton

No. 2PFP—Poison Fly Paper; size of carton, length 7½ inches, width 6 inches, height 5 inches; weight per carton, 3 lbs. **$2.50**

FLY TRAPS.

BABY SUPERIOR.

Made of rustless galvanized wire cloth; is easily baited and easily emptied; well made; convenient and very effective; bait pan, top and stays are made of heavy tin.

Per Dozen

No. 5—Baby Superior; height, 4½ inches; diameter, 4 inches; weight per dozen, 3¾ lbs. **$1.60**

One dozen in a carton

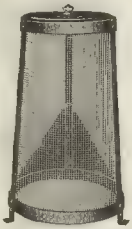
PARAGON.

Per Dozen

Paragon—Green, 12-mesh wire cloth; IC tin bound edges; diameter top, 4¼ inches; diameter bottom, 6¾ inches; height, 9¼ inches; weight per dozen, 10 lbs. **$2.80**

One dozen in a case

PERFECT.



Made from black wire cloth, reinforced at top, bottom and sides with plain heavy galvanized strips; top cover is painted aluminum bronze.

Per Dozen

No. 100—Height, 20 inches; diameter bottom, 11½ inches; diameter top, 9 inches; weight per dozen, 35 lbs **$15.60**

Half dozen in a carton.

BALLOON

Per Dozen

Balloon—Tinned, 12-mesh wire cloth; IC tin bound edges; diameter bottom, 4 inches; height, 7 inches; weight per dozen, 7 lbs. $3.40

One dozen in a carton.

Per Dozen

No. 5—14 gauge tinned wire handle; size of blade, 6½x4½ inches; length over all, 14½ inches; weight per dozen, 3 lbs. **$1.30**

One dozen in a box.

Made of heaviest grade black screen wire cloth completely bound with black felt; base neatly folded over shank of handle; held firm with four wire staples. 13 gauge tinned wire handle.

Per Dozen

No. 10—Length over all, 17 inches; size of blade, 7x4¾ inches; weight per dozen, 3¼ lbs. **$1.40**

No. 15—Length over all, 24 inches; size of blade, 7½x4¾ inches; weight per dozen, 4 lbs **1.70**

One dozen in a box.

Made of bright wire screening bound with rubber and inserted in an enameled handle; strong, neat and sanitary; will not mar or scratch furniture.

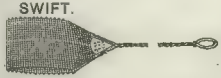
Per Dozen

No. S—Sanitary; Rubber set; length over all, 16 inches; size of blade, 4x6½ inches; weight per dozen, 4 lbs. **$1.50**

One dozen in a box.

SWIFT.

Double thickness wire cloth; turned in corners; selvage edges, equipped with strong double wire handle.



Per Dozen

No. 1—Swift; length, 16 inches; weight per carton, 3½ lbs. **$1.30**

JACKSON.

Made of extra heavy specially woven wire cloth securely fastened to black enamelled wood handle. Entirely bound with black felt. Wire cloth is strengthened at the sides with three-wire selvage. Three wires on each side of center space.

Per Dozen

Jackson—Size over all, 5x16 inches; weight per dozen, 2 lbs. **$1.50**

One or two dozen in a carton.
Display stand furnished with boxes containing two dozen.

OSBORN

Handle attached to wire by a patented process which will hold indefinitely.

Made of best tempered steel wire; handle is black enameled.

Per Dozen

Osborn—Length, 15 inches; weight per dozen, 2 lbs **$1.60**

One dozen on a display rack.

Gets them every time. The flexible rubber adapts itself to flat or uneven surfaces, as furniture edges, window corners, etc.

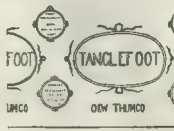
Harmless to the finest furniture or fabric. Sanitary, quickly cleaned by washing, lasts for several seasons. No wire to break, scratch or rust.

Per Dozen.

No. L4—Sanitary Rubber Swatters; one counter display stand free with each two dozen swatters; length, 14 inches; size of blade, 3x5 inches; weight per gross, 19 lbs. **$1.70**

One gross in a case.

FLY PAPER.



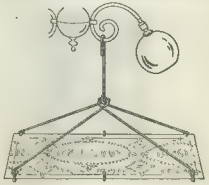
Per Box

Tanglefoot—50 double sheets in a box; size of sheet, 8x14½ inches; weight per box, 7 lbs **$1.80**

Per Case

Tanglefoot—50 double sheets in a box; 5 boxes in a case; weight per case, 40 lbs. **$9.50**

FLY PAPER HOLDERS.



With the use of this holder, fly paper can be hung up either on the wall, screen, chandeliers, or in the center of the room, out of the way, thus doing away with the danger of damaging articles, which are almost sure to get on to the paper when used in the usual way, by setting it on the table or shelf.

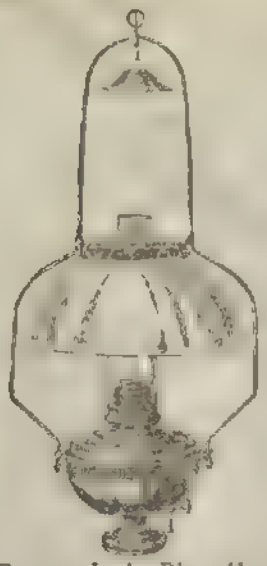
Per Dozen

No. 228—Fly Paper Holders, made of 14 gauge tinned wire, weight per doz, 1½ lbs. **$1.40**

One dozen in a bundle.

LAMPS

MAMMOTH STORE LAMPS



Plain Fount, Lock Ring Harp, Patent Lighting Device (Lamp Can Be Lighted with Chimney On); Wick Indicator Shows Motion of Wick; Oil Indicator Shows Supply in Fount; No. 3 Plumwood Chimney and Wick, or No. 2-0 Belgian or No. 2-0 Liberty Chimney; **Porcelain Dome, 14 Inches in Diameter;** Length from Base to Hanger, 33 Inches; Capacity of Fount, 3 Quarts; Will Burn 14 Hours.

Each

No. 23 —Plain Brass, Complete..... **$12.50**
No. 023—Nickel Plated, Complete.....**14.00**
One in a Case; Shipping Weight, 23 Pounds.

EXTRAS FOR REPAIRS Per Dozen

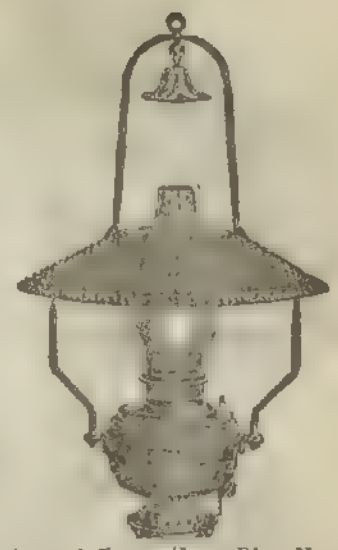
14S—Shades, 14-inch Opal; Weight, 30 Pounds Per Dozen.. **$10.50**
14B—Rings, Plain Brass; Weight, 4 Pounds; Per Dozen.. **5.50**
14N—Rings, Nickel Plated; Weight, 4 Pounds; Per Dozen..... 7.00
Loose

Plain Fount, Lock Ring Harp; Patent Lighting Device (Lamp Can Be Lighted with Chimney On); Wick Indicator Shows Motion of Wick; Oil Indicator Shows Supply in Fount; No. 3 Plumwood Chimney and Wick, or No. 2-0 Belgian or No. 2-0 Liberty Chimney; **Tin Shade, 20 Inches in Diameter,** Green Outside, Bright Inside; Length from Base to Hanger, 33 Inches; Capacity of Fount, 3 Quarts; Will Burn 14 Hours.

Each

No. 13 —Plain Brass, Complete... . $12.00
No. 013 Nickel Plated, Complete 12.50

One in a Case; Shipping Weight, 23 Pounds



Embossed Fount, Lock Ring Harp, Patent Lighting Device (Lamp Can Be Lighted without Removing Chimney); Wick Indicator Shows Motion of Wick; No. 3 Banner or No. 3 Rochester Chimney and No. 3 Circular Wick; **Tin Shade or Reflector, 20 Inches in Diameter,** Green Outside, Bright Inside; Length from Base to Hanger, 33 Inches; Capacity of Fount, 3 Quarts; Will Burn 14 Hours.

Each

No. 3 —Plain Brass, Complete..... **$12.00**
No. 03 -Nickel Plated, Complete. **12.00**

One in a Case; Shipping Weight, 23 Pounds

STREET

FOR USE ON POSTS OR BRACKETS

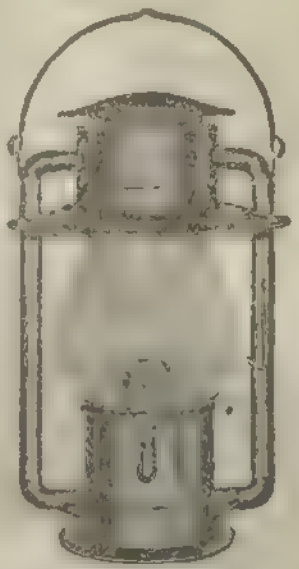
Each

No. 3P—22 Candle Power; Extra Heavy; Cold Blast Tubular Complete [illegible] **Burner; 1⅛ inch Wick; Height 26 inches; Painted Green; Weight 26 lbs..... $14.00**
One in a Case

Per Dozen

Extra Globes for No. 3P Lamp..... .....$11.00
One Dozen in a Case

STREET



HANGING

Each

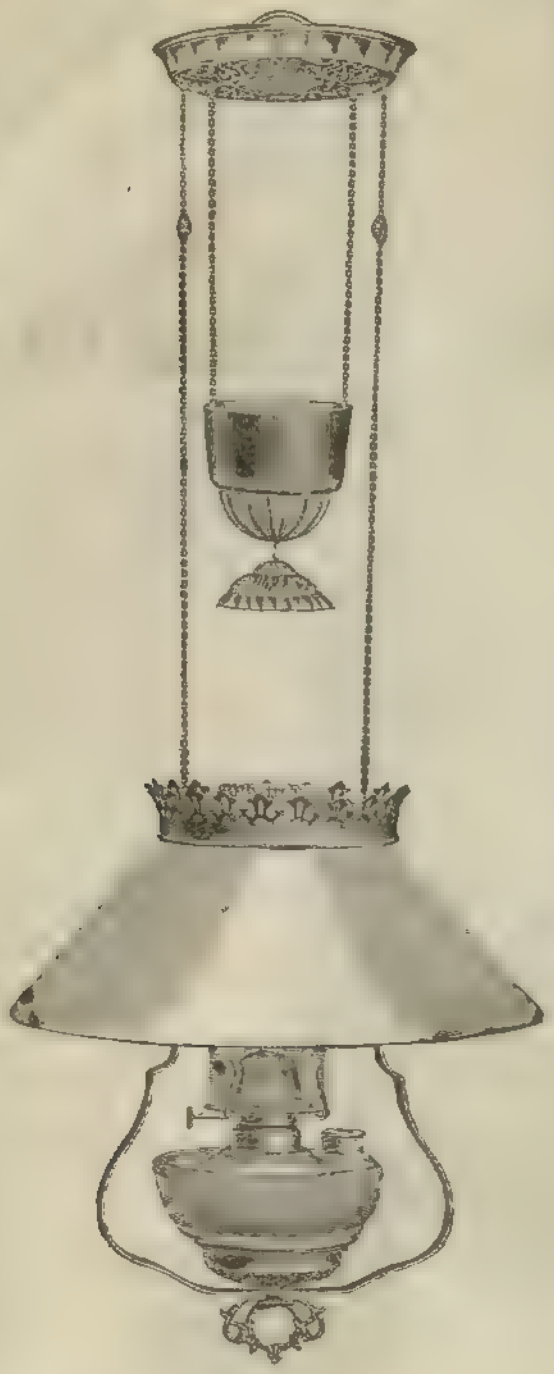
No. 3H—22 Candle Power; Extra Heavy; Cold Blast Tubular Complete [illegible] **Burner; 1⅛ inch Wick; Height 22½ inches; Painted Green; Weight 25 lbs..... $13.00**
One in a Case

Per Dozen

Extra Globes for No. 3H Lamp..... .....$11.00
One Dozen in a Case

LAMPS

LIBRARY HANGING

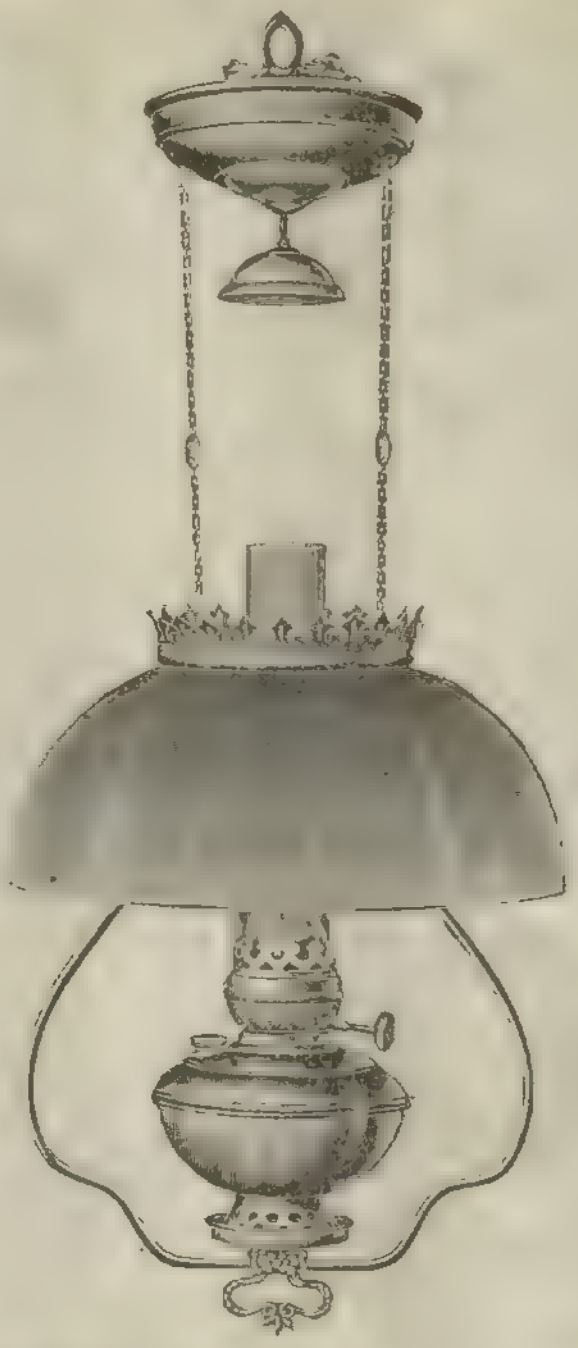


LENGTH—Closed 44 inches; Extended 59 inches.
BURNER—No. 2, with 1 inch Wick.
CHIMNEY—No. 2, Sun.
EXTENSION—Patent Weight.
METAL PARTS—Solid Bronze, Rich Gilt Finish.
DOME—14 inch, Opal.
FOUNT—Crystal Glass with Outside Filler.

Each

No. 9000—Complete with Chimney and Wick.....**$10 00**

One in a Barrel; Shipping Weight 45 lbs.
No Additional Charge for Packing.



LENGTH—Closed, 28 Inches; Extended, 65 Inches.
BURNER—Success, Center Draught.
CHIMNEY—Belgium No. 1B.
WICK—Round Belgium No. 1.
EXTENSION—Automatic Spring
METAL PARTS—Very Heavy Brass.
DOME—14 inch, Plain.
FOUNT—Plain Polished Brass.

Each

No. 9015—Opal Dome, Complete with Chimney and Wick.... **$12 00**

One in a Box; Shipping Weight 45 Pounds.
No Additional Charge for Packing.

Mansfield Rigid Spout Water Column

Fig. 30

Reasons Why the Mansfield Column Fulfills the Requirements of Modern Railroad Service:

First The valve responds immediately to the operating lever, which together with the large area of passage, makes it possible to deliver a large tank of water quickly

Second Being balanced or nearly so, the valve operates easily and may be used under high pressure without water hammer

Third Under very high pressure as when connected direct to city mains we furnish a wheel handle attachment on the spout, making the motion of the valve uniform, and preventing water hammer

Fourth It is adapted to double as well as single track roads

Fifth When not in service it turns automatically to its position parallel to the track and locks itself in that position

Sixth The column is frost-proof, as the automatic drip valve drains the pipe when not in service.

Seventh The valve is simple in construction and does not get out of order easily but is, at the same time readily accessible

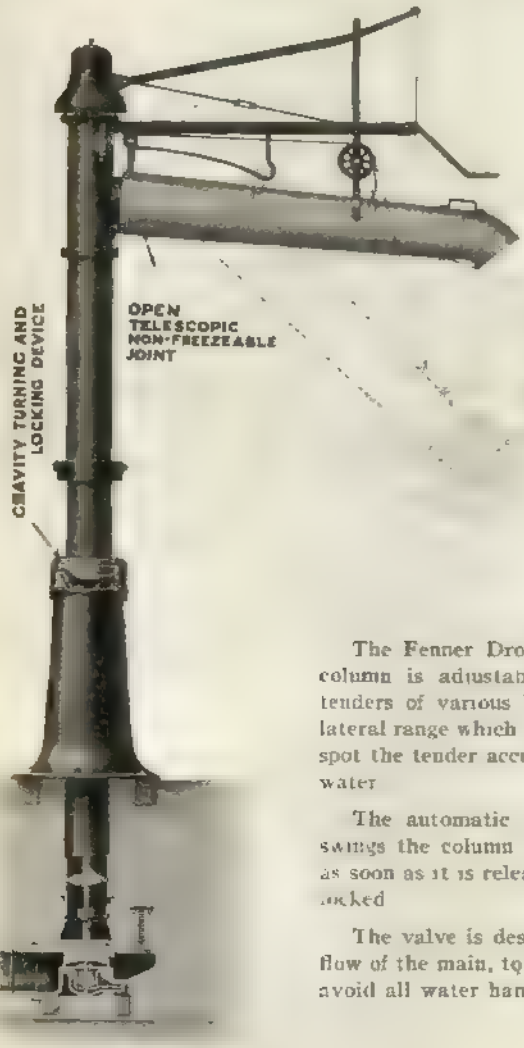
Eighth The stream of water flowing from the spout is solid and free from circular motion

Ninth -All operating parts are outside the valve, so that they can be replaced quickly in case of accident.

8 inch Mansfield Water Column to operate from tender	weight 1,800 pounds
10 inch Mansfield Water Column to operate from tender	weight 2,500 pounds
12 inch Mansfield Water Column to operate from tender	weight 3,000 pounds

Prices on Application

Poage Style "H" Automatic Water Column with Fenner Drop Spout



The Fenner Drop Spout shown on this column is adjustable vertically to reach tenders of various heights. It also has a lateral range which makes it unnecessary to spot the tender accurately in order to take water

The automatic gravity turning device swings the column parallel with the track as soon as it is released, and holds it there locked

The valve is designed to admit the full flow of the main, to shut off rapidly, but to avoid all water hammer.

Fig. 40

Write for Prices

DUMB BELLS.

IRON.

Weight each, 1 to 25 pounds.

Per Pound

No. J—Cast iron, japanned.....$0.16

In bulk.

WOOD.

Fine oil finish maple dumb bells.

Weight each, lbs.	½	¾	1	1½	2	3
Per Pair	$0.77	.80	.96	1.12	1.25	1.80

In bulk.

INDIAN CLUBS.

Maple, with fine oil finish.

Weight each, lbs	½	¾	1	1½	2	2½	3	4
Per Pair	$0.77	.80	.96	1.12	1.25	1.60	1.80	2.24

In bulk.

SCHOOL WANDS

CALISTHENIC.

Per Dozen

No. W36—Calisthenic School Wands; made of straight grain maple, polished; 1 inch diameter by 36 inches long $3.00

Weight per dozen, 6 lbs.

In bulk.

Per Dozen

No. 10—Dice cup, leather, 2x3½ inches. . $9.00

Weight, per dozen 1[illegible] lbs.

In bulk.

POKER CHIPS.

PLAIN.

Assorted red, blue and white, 1½ inch diameter

Per 1000

No. 100—Poker Chips, celluloid, plain.....$13.65

No. 150—Poker Chips, unbreakable paper, plain...15.75

100 in a box, 25 red, 25 blue, 50 white.

Weights, per box—No. 100, 2 lbs.; No. 150, 1 lb.

Sold only in full boxes.

ENGRAVED.

FLUSH HAND

GOLF

CROWN

Assorted red, blue and white, 1½ inch diameter.

Per 1000

No. 200—Poker Chips, celluloid, engraved in any one of the above three designs; **specify design wanted**. **$22.00**

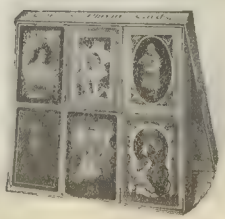
100 in a box; 25 red, 25 blue and 50 white

Approximate weight, per box 1¼ lbs.

Sold only in full boxes.

PLAYING CARDS.

ASSORTMENT.



Per Assortment

Congress Assortment—Containing 6 packs of cards [illegible] shown in cut; weight, per assortment 2 lbs... **$5.20**

No. 999.

No. 101.

No. 155.

No. 808.

RIDER.
808. Bicycle.

	Per Gross, Net.	Per Doz. Packs
No. 999—Steamboat; round corners, two color plaids, calico patterns	tsdz	$4.80
No. 101—Tiger; extra quality, new two color plaids, calico patterns	midz	5.50
No. 155—Tourist; hard process finish, set pattern, margin backs, assorted colors	mbdz	6.30
No. 808—Bicycle; ivory finish, highly enameled, bicycle and other popular designs in all colors	atdz	7.30

One dozen packs in a box; weight per box 3 lbs.

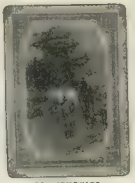
CONGRESS.

16—QUEEN.

21 APACHE.

24—BROHES.

28—LIBERTY


20—HOMEWARD

209. ARGOSY.

210. MOONLIGHT.

213—BROOK.

214—MOOSE.

216—WINTER.

Gold edges, famous for their beauty and elegance. Most appropriate for well appointed card parties. Back designs are all works of art, rich colors.

Per Dozen Packs.

Congress Playing Cards—Any style shown above; when ordering give style wanted $10.40

One dozen packs in a box; weight per box 3½ lbs.

GUN GREASE

Will not become rancid in any climate, a positive rust preventive, in collapsible tubes, 1 x 4 inches.

Winchester

No. 890—2 oz. tubes.....Per dozen $1.50
One Dozen Tubes in a Box

THREE-IN-ONE OIL

A light, thin oil, free from acids, never gums, prevents rust, cleans quickly, lubricates quickly and thoroughly all points of friction, adds luster to enamel, nickel and steel.

No. 10—1 oz. bottles.....Per dozen $1.80
Two Dozen in a Box

No. 15—3 oz. bottles.....Per dozen 3.60
One Dozen in a Box

No. 20—8 oz. bottles.....Per dozen 8.00
One Dozen in a Box

Here is an exact reproduction of our unique flat, patent handy oil can—the can that can't leak. Handy oil can fits right into the hip pocket of any sportsman, autoist, carpenter, fisherman, mechanic—any man's hip pocket. Fits into any sewing machine or typewriter drawer.

No. 35—3½ oz. can.....Per dozen $4.00
One Dozen in a Box

REM OIL

A lubricant, rust preventative and nitro powder solvent all in one. A prefect oil for guns and pistols.

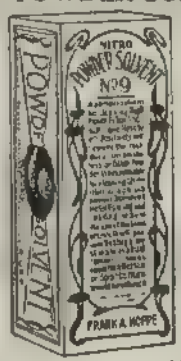
Rem—2½ oz. bottles.....Per dozen $3.50
One Dozen in a Box

HOUSEHOLD OIL

A good oil put up in lithographed cans suitable for all household purposes, lawn mowers, etc.

No. 10—¼ pint cans.....Per dozen $3.00
One Dozen in a Box

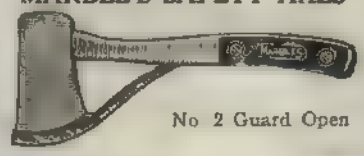
NITRO POWDER SOLVENT



For cleaning high-power rifles, shotguns and revolvers, where dense nitro powders are used. Positively removes the residue of any high-power powder now on the market. Prevents rusting in any climate.

No. 9.....Per dozen $5.00
One Dozen Bottles in a Carton

MARBLE'S SAFETY AXES



No. 2 Guard Open

No. 3 Guard Closed

No. 2—Steel handle, 11 in. long over all, engraved hard rubber grip, blade 2⅜ x 4 in., weight 20 oz.....Each $2.50

No. 3—Steel handle, 12 in. long over all, engraved hard rubber grip, blade 2⅜ x 4⅜ in., weight 27 oz.....Each $3.00
Two in a Box

No. 5—Hickory handle, 11 in. long over all, solid steel blade, 2⅛ x 4⅛ in., weight 16 oz.....Each $1.50

No. 6—Hickory handle, 12 in. long over all, solid steel blade, 2¾ x 4¾ in., weight 22 oz.....Each 1.50
Two in a Box

AXE SHEATHS

Smooth leather, neatly stitched, half length, glove fastener. Adapted to all Marble's hunting axes.

No. 20.....Each $0.75
Packed as ordered

HUNTING KNIVES

Laminated leather handle, brass and fiber trimmings at each end, polished stag horn tip, with russet leather sheath, canoe hilt.

Marble's Ideal, Leather Handle

No. 41—5 in. blades.....Each $2.25
No. 41—6 in. blades.....Each 2.50
Six in a Box

Laminated leather handle, brass and fiber trimmings at each end, polished stag horn tip, with russet leather sheath, double hilt.

Marble's Ideal Hilt, Leather Handle

No. 45—5 in. blades.....Each $2.25
No. 45—6 in. blades.....Each 2.50
Six in a Box

Genuine stag handle, brass and fiber trimmings at each end, polished stag horn tip, canoe hilt.

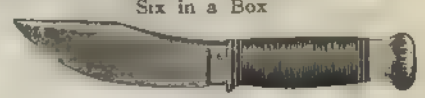
Marble's Ideal, Stag Handle

No. 42—5 in. blades.....Each $2.75
No. 42—6 in. blades.....Each 3.00
Six in a Box

Genuine stag handle, brass and fiber trimmings at each end, polished stag horn tip, with russet leather sheath, double hilt.

Marble's Ideal Hilt, Stag Handle

No. 48—5 in. blades.....Each $2.75
No. 48—6 in. blades.....Each 3.00
Six in a Box



The great advantage of this knife is that it is designed for all purposes. It has the weight and strength, and the sharp penetrating point necessary for sticking, curved blade is just the right shape for rapid skinning, the back of blade close to handle is checkered to give a firm grip with thumb or finger, the back of point is beveled for chopping, breaking bones, etc. The thick back, with tapering bevel blade, carries the strength from handle to point, allowing it to serve the purpose of a thin blade, and yet has a surplus of strength found only in much heavier knives.

Marble's Woodcraft

No. 49—4½ in. blades, laminated leather handle, with sheath.....Each $1.50

No. 50—4½ in. blade, staghorn handle, with sheath.....Each 2.00
Six in a Box

HUNTING KNIVES AND TRAPS

HUNTING KNIVES

Scale tang, genuine stag handle, German silver guard, with russet leather sheath.

Bowie

No. 48—6 in. blades.....Per dozen $15.00
No. 48—7 in. blades.....Per dozen 17.00
Half Dozen in a Box

Ebony handle, with three saw rivets, glazed finished blade, black leather sheath.

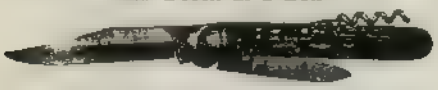
Henkels'

No. 638-5—5 in. blades.....Per dozen $17.00
Half Dozen in a Box

One blade, genuine stag handle, German silver bolster, brass lined, lock-back, full polished, blade opens by pressing ring lever and is closed by the same action, 4½ in. closed, 8 in. open.

Henkels' Lock Back

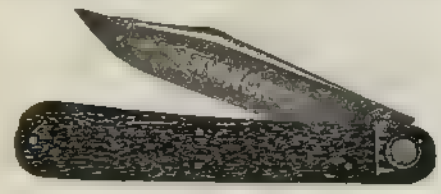
No. 501—3½ in. blades.. ...Per dozen $60.00
Half Dozen in a Box



One large and one small blade, and cork-screw, large blade lock-back, handle of genuine stag, German silver bolsters, brass lined, size when closed 4½ in.

Henkels' Camping Knife

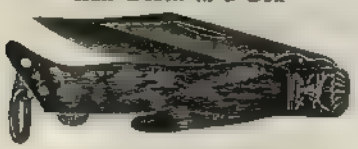
Per dozen
No. 824 St.—Large blade, 3½ in.....$40.00
Half Dozen in a Box



One blade, stag handle, German silver bolster, steel lined, 5 in.

Press Button

No. 1127.....Per dozen $16.00
Half Dozen in a Box



One blade, genuine deerfoot handle, full polished, German silver bolster, brass lined. 5 inches.

Deerfoot

No. G8370.....Per dozen $18.00
Half Dozen in a Box

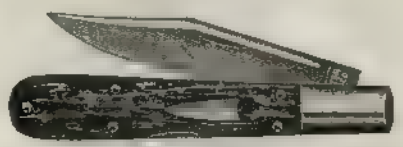
Lock-back, one blade, stag handle, German silver bolster, brass lined, half polished, 4½ in clip blade.

No. B1158¾.....Per dozen $18.00
Half Dozen in a Box

HUNTING KNIVES

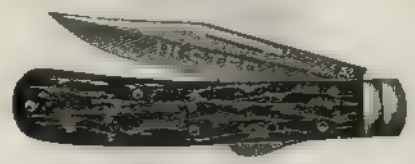
Lock-back, one blade, stag handle, German silver lined, bolster and cap, half polished, 5¼ in. sabre clip blade

No. B1278¾..... Per dozen $24.00
Half Dozen in a Box



Lock-back, one blade, stag handle, German silver bolster and shield, brass lined, 4½ in blade, locks rigidly.

No. U1122.....Per dozen $18.00
Half Dozen in a Box



Lock-back, one blade, stag handle, steel lined and bolster, 4½ in. blade.

No. U1117.....Per dozen $18.00
Half Dozen in a Box

CAMPING COMPANION

German silver bolster, brass linings, contains one extra quality crucible steel blade, tempered and half polished, one three-tine steel fork, and one solid German silver spoon. Can be taken apart and knife, fork and spoon used separately.

No. U3383..... ..Per dozen $19.50
Quarter Dozen in a Box

JUMP TRAP SETTERS

Special Norway iron adapted for setting jump and Hopper traps.

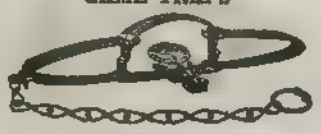
No. 100 .....Per dozen $2.00
Half Dozen in a Box

GAME TRAPS

Victor

No. 0 —Single spring, plain jaws, spread 3½ inches, about 55 dozen in a bbl.
Per dozen.....$4.25
No. 1 —Single spring, plain jaws, spread 4 inches, about 40 dozen in a bbl.
Per dozen..... 5.00
No. 1½—Single spring, plain jaws, spread 4⅞ inches, about 25 dozen in a bbl.
Per dozen..... 7.50

GAME TRAPS



Victor

No. 2—Double spring, plain jaws, spread 4⅞ inches, about 10 dozen in a bbl.
Per dozen $10.50
No. 3—Double spring, plain jaws, spread 5¼ inches, about 9 dozen in a bbl.
Per dozen..... 14.00
No. 4—Double spring, plain jaws, spread 5⅞ inches, about 8 dozen in a bbl.
Per dozen..... 16.50

Jump

No. 0 —Single spring, plain jaws, spread 3⅞ inches.....Per dozen $4.25
No. 1 —Single spring, plain jaws, spread 4¾ inches.....Per dozen 5.00
No. 1½—Single spring, plain jaws, spread 5⅛ inches.....Per dozen 7.50
One Dozen in a Carton
Twelve Cartons in a Case

Jump

No. 91J—Single spring, double jaws, spread 4¾ inches.....Per dozen $6.00
One Dozen in a Carton
Twelve Cartons in a Case

Hector

No. 0 —Single spring, plain jaws, spread 3½ inches, about 35 dozen in a bbl
Per dozen..... $4.25
No. 1 —Single spring, plain jaws, spread 4 inches, about 25 dozen in a bbl
Per dozen..... 5.00
No. 1½—Single spring, plain jaws, spread 4⅞ inches, about 16 dozen in a bbl.
Per dozen..... 7.50
No. 2—Double spring, plain jaws, spread 4⅞ inches, about 11 dozen in a bbl.
Per dozen..... 10.50

Hopper

No. 0 —Single spring, plain jaws, spread 3½ inches, about 35 dozen in a bbl.
Per dozen..... $4.25
No. 1 —Single spring, plain jaws, spread 4 inches, about 25 dozen in a bbl.
Per dozen..... 5.00
No. 1½—Single spring, plain jaws, spread 4⅞ inches, about 15 dozen in a bbl.
Per dozen..... 7.50

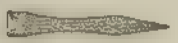
HUNTING KNIVES

MARBLE

Safety Folding Pattern; Long Blade with Short Handle, Utilizing the Steel Extension Guard as a Safety Lock when the Knife is Open. The Guard, as well as Blade, is Held in Position by a Spring when either Open or Closed. Finest Quality Cutlery Steel Blades; Glazed; Concaved and with Extra Heavy Oval Points for Chopping Bones, etc. German Silver Hilts, Bolsters, Caps and Lining. All Parts Hand Fitted with Utmost Care, so that when Knife is Opened it is as Rigid as a One-Piece Knife.

Cut Shows No. 83 Open

Cut Shows No. 83 Closed



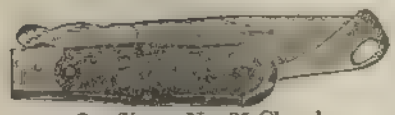
Cut Shows Cross Section of Blade No. 83

Per Dozen

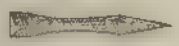
No. 83—Hard Black Rubber Handle; Blade 4¼ inches; Weight each 5 ozs.; Complete with Orange Leather Sheath.....**$48 00**

Half Dozen in a Box.

Cut Shows No. 85 Open



Cut Shows No. 85 Closed



Cut Shows Cross Section of Blade No. 85

Per Dozen

No. 85—Hard Black Rubber Handle; Blade 5 inches; Weight each 8 ozs.; Complete with Orange Leather Sheath. **$64 00**

Half Dozen in a Box.

Woodcraft

The great advantage of this knife is that it is designed for **all** purposes. Some knives are adapted for sticking but are not much good for skinning or cleaning. Some are adapted for skinning or cleaning but are not satisfactory for sticking.

It has the weight and strength as well as the sharp penetrating point necessary for sticking—the curved blade is just the right shape for rapid skinning—the back of blade close to handle is checkered to give a firm grip with thumb or finger—the back of point is beveled for chopping, breaking bones, etc. The thick back, with tapering bevel blade, carries the strength from handle to point, allowing it to serve the purpose of a thin blade, and yet it has a surplus of strength ordinarily found only in much heavier knives.

The 4½ inch blade is the length desired by most experienced hunters. Handy to carry and handle, with no superfluous weight to tire the hand or inconvenience the worker when cleaning inside an animal.

Per Dozen

No. 49—Laminated Leather Handle; Blade 4½ inches; Handle 3¾ inches; Weight each 5 ozs.; Complete with Russet Leather Sheath.....**$36.00**

Half Dozen in a Box.

HUNTING KNIVES

MARBLE

Ideal Solid Pattern; Adapted to Sticking and Skinning; Blade and Tang in One Piece, the Tang Extending Through the Handle. The Handle Parts are all a driving Fit on the Tang and are Held Together by a ½ inch Brass Nut Countersunk into the End of the Tip. The Nut Engages with the Threaded End of Tang. Finest Quality Cutlery Steel Blades, Glazed, Concaved and with Extra Heavy Oval Points for Chopping Bones, etc.

No. 45

Sole Leather Washer Handle; Trimmings of Brass and Colored Hard Fiber Washers; Brass Hilt; Lignum-vitae Tip; Complete with Orange Leather Sheath.

Blade, inches.....	5	6
Weight Each, ozs.....	6	7
Per Dozen.....	**$36.00**	**40 00**

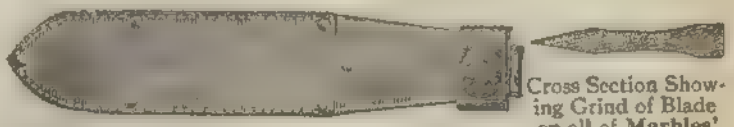
Half Dozen in a Box.

No. 46

Genuine German Stag Handle; Trimmings of Brass and Colored Hard Fiber Washers; Brass Hilt; Natural Stag Tip; Complete with Orange Leather Sheath.

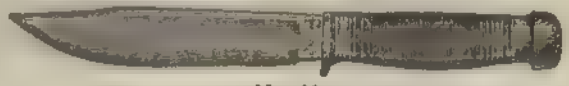
Blade, inches..	5	6
Weight Each, ozs...	7	8
Per Dozen.....	**$44 00**	**48 00**

Half Dozen in a Box.



Cut Shows Style of Sheath Furnished with Knives Nos. 45 and 46

Cross Section Showing Grind of Blade on all of **Marbles' Ideal Hunting Knives**



No. 41

Sole Leather Washer Handle; Trimmings of Brass and Colored Hard Fiber Washers; Brass Bolster; Lignum-vitae Tip; Complete with Orange Leather Sheath.

Blade, inches..	5	6
Weight Each, oz	5	7
Per Dozen.....	**$36.00**	**40 00**

Half Dozen in a Box.

No. 42

Genuine German Stag Handle; Trimmings of Brass and Colored Hard Fiber Washers; Brass Bolster; Natural Stag Tip; Complete with Orange Leather Sheath.

Blade, inches.....	5	6
Weight Each, ozs...	5	7
Per Dozen.....	**$44 00**	**48 00**

Half Dozen in a Box.

IDEAL CANOE

Length of Blade 4½ inches; Length of Handle 3¾ inches; Trimmings of Brass and Colored Hard Fiber Washers; Brass Bolster; Weight Each 5 ozs.; Complete with Orange Leather Sheath.

Per Dozen

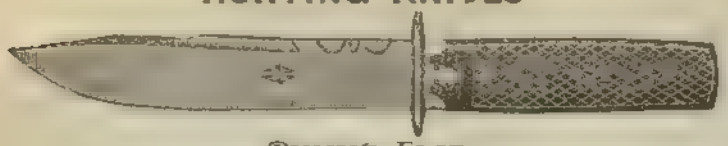
No. 51—Leather Handle; Lignum-vitae Tip..... **$36 00**

No. 52—Genuine German Stag Handle; Natural Stag Tip..... **44.00**

Half Dozen in a Box.

Cut Shows Style of Sheath furnished with Knives Nos. 41, 42, 51, 52

HUNTING KNIVES

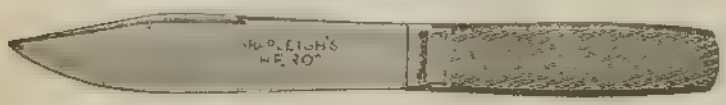


DIAMOND EDGE

Per Dozen

No. 4—Scored Ebony Handle; Full Scale Tang; White Metal Hilt or Guard; **Finest Quality English Crucible Steel Blade;** Length 6 inches; Glazed and Etched; Full Crocus Polished Fancy Swaged Back; Complete with Heavy Russet Leather Sheath; Weight per Dozen 2¾ lbs. **$16 00**

Half Dozen in a Box

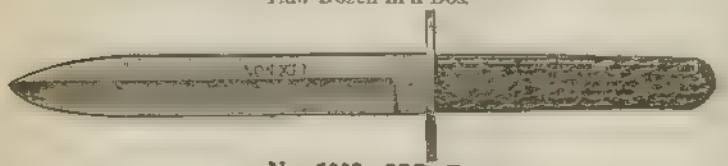


★SHAPLEIGH'S HERO

Per Dozen

No. SH6—Scored Ebony Handle; Full Scale Tang; White Metal Bolster, Swaged Back, Hunting Blade; Length 6 inches. **Glazed Finish; Without Sheath; Weight per Dozen 3½ lbs. ..$9 00**

Half Dozen in a Box

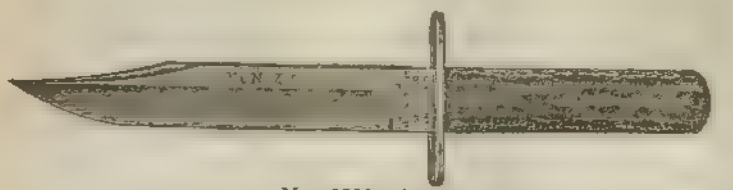


No. 1602—SPEAR

Patent Stag Handle; Full Scale Tang; German Silver Hilt or Guard; Beveled **Spear Blade;** Half Polished; Complete with Russet Leather Sheath

Length Blade, inches	**5**	**6**	**7**
Weight per Dozen, Lbs	4½	6	7½
Per Dozen	**$17 00**	**19.00**	**24.00**

Half Dozen in a Box



No. 1602—CLIP

Patent Stag Handle; Full Scale Tang; German Silver Hilt or Guard; Beveled **Clip Blade;** Half Polished; Complete with Russet Leather Sheath

Length Blade, inches	**5**	**6**	**7**
Weight per Dozen, Lbs	4½	5½	7½
Per Dozen	**$17.00**	**19.00**	**24 00**

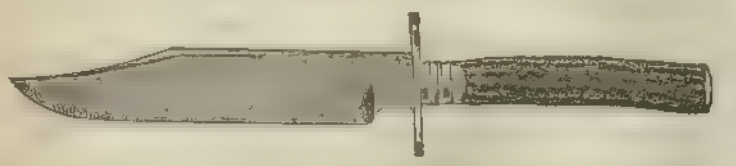
Half Dozen in a Box

No. 1602—DAGGER

Patent Stag Handle; Full Scale Tang; German Silver Hilt or Guard **Double Edge Dagger Blade;** Full Polished; Complete with Russet Leather Sheath

Length Blade, inches	**5**	**6**	**7**
Weight per Dozen, Lbs	4½	5½	7½
Per Dozen	**$19 00**	**22.00**	**30.00**

Half Dozen in a Box



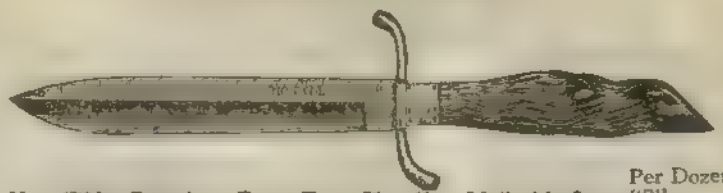
NON-XLL—HUNTERS

Per Dozen

No. 1172—Solid Genuine Stag Handle; German Silver Hilt or Guard and Bolster; Beveled **Clip Blade;** Length 6 inches; Half Polished and Etched; Complete with Russet Leather Sheath; Weight per Dozen 5 lbs. **$27.00**

Half Dozen in a Box

HUNTING KNIVES



Per Dozen

No. 1784—Genuine Deer Foot Handle; Malleable Iron "S" Hilt and German Silver Bolster; Beveled Spear Blade, Length 6 inches; Glazed; Complete with Russet Leather Sheath; Weight per Dozen 4¼ lbs. **$14.00**

Half Dozen in a Box

No. 1195

Genuine Deer Foot Handle; German Silver "S" Hilt and Bolster Beveled Clip Blade, Glazed; Complete with Russet Leather Sheath.

Length Blade, inches	**6**	**7**
Weight per Dozen, Lbs.	5¾	6¼
Per Dozen	**$27.00**	**32.00**

Half Dozen in a Box

FISHERMENS KNIVES

Per Dozen

No. 2—Checkered Cocobolo Handle; Full Scale Tang; Polished Steel Lapped Bolster; Fine Grade American Steel Blade; Length 4¾ inches; Glazed; Saw Back for Scaling and Concaved Sharp Ground Back at Point for Ripping; Handle has Hole in End for String; Without Sheath. Weight per Dozen 2½ lbs. **$10 00**

Half Dozen in a Box

Per Dozen

No. B4—Beechwood Handle; Full Scale Tang; Fine Grade American Steel Blade; Length of Blade 5 inches; Glazed Finish; Saw Back for Sealing and Concaved Sharp Ground Back at Point for Ripping; Weight per Dozen 2½ lbs. . **$5.00**

Half Dozen in a Box

Per Dozen

No. 1—Solid Walnut Polished Handle; Blade Fastened into Handle with Two German Silver Rivets; Finest Quality Steel Double Edge Hawk Bill Blade; Length 2¾ inches; Glazed; German Silver Shield; Handle has Hole in End for String; Complete with Black Leather Sheath; Weight per Dozen 3 lbs. **$13 50**

Half Dozen in a Box

FISH, SQUAW OR SAILOR KNIVES

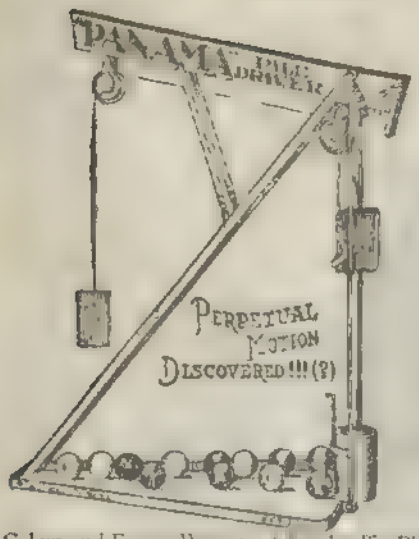
★*DIAMOND EDGE*

Per Dozen

No. DE119—Made of the Best Grade English Steel, Uniformly Tempered; Glazed Finish; Full Scale Tang Beechwood Handle; Handle Fastened with Five Iron Rivets; Length of Blade 4½ inches, Length of Handle 4 inches, Length Over All 8½ inches; Weight per Dozen 2½ lbs. **$3 30**

Half Dozen in a Box

MARBLE TOYS



WOLVERINE PILE DRIVER

Placing the Marbles in the Chute at the Top and Giving the Hammer a Start Downward Puts the Toy in Operation; a Counter Weight Draws the Hammer to the Top and Releases One of the Marbles; the Weight of Which Causes the Hammer to Drop Quickly; At the Bottom the Marble is Released with a Sharp Tap; the Hammer again Ascends and Repeats the Action with Each of the Marbles in the Chute; Replace Marbles in the Chute and the [illegible] Will Continue Indefinitely. Every Toy is Tested Before Being Packed; Sheet Metal Parts are Decorated in Bright Colors, and Frame Work is of Bright Tin Plate. [illegible] Joints are all Riveted when Set Up. Full Directions for Operating and Setting Up Accompany Each Toy.

Per Dozen

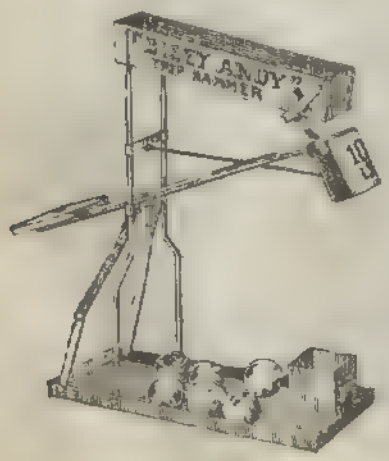
No. 1204—Height 16½ inches; Weight per Dozen 27 lbs. **$22 00**
Each Dozen in a Carton

WOLVERINE EXPRESS ELEVATOR

Simulates as Nearly as Possible a Detachable Office Building Elevator. When Marbles are Placed in the Chute at the Top the Car Travels Up and Down; One Marble Causes the Car to Descend and the Counter Weight Makes it Ascend; Marbles Are Discharged at the Bottom, Artistically Lithographed in Colors; the Car Showing the Elevator Operator in Front and the Passengers at the Rear; a Battery Attachment with Bulbs Gives a Lighting Effect Showing the Position of the Elevator and Light Alternately Showing the Action of the Elevator. Any Dry Cell Battery May Be Used with This Lighting Apparatus; Collapsible and Packs in an Individual Carton with Full Directions.

Per Dozen

No. 1205—Height 32¼ inches; Weight per Dozen 35¼ lbs. ... **$42 00**
Twelfth Dozen in a Box



WOLVERINE TRIP HAMMER

Bizzy Andy Trip Hammer Pressed Steel; Enameled in Bright Colors; Marbles Rolling Down Chute Drop into Hammer Head, Causing It to Descend with a Hammer Blow, Releasing Marble. When Counterweight Causes Hammer to Return, which Trips Lock Releasing Another Marble and Continues as Long as Marbles Are Kept in Chute; Makes a Very Lively Busy Toy.

Per Dozen

No. 1206—Height 10 inches; Weight per Dozen 12 lbs. **$9 50**
One in a Package

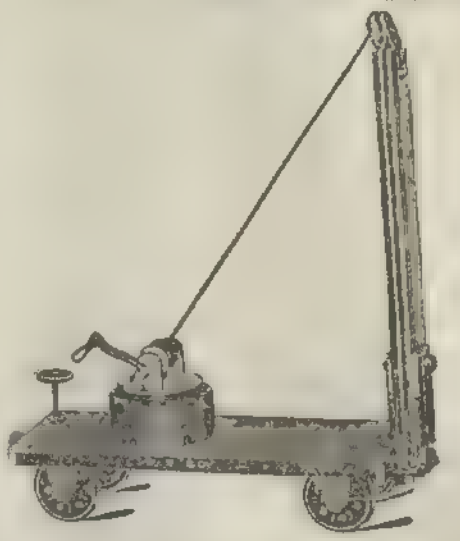
TOY WRECKING CARS

All Cast Iron; Movable Crane, which May be Revolved into Desired Position; a Windlass Operates the Chain which Raises or Lowers the Small Cast Iron Locomotive as Shown in Illustration, and Which May Be Removed When Desired to Raise Other Weights. The Hook and Chain is Strong Enough to Hold Any Reasonable Weight; Attractively Painted [illegible] with Bright Enamel.

Per Dozen

No. 1140—Height Over All 5½ inches; Length of Car 10¼ inches; Width 3¼ inches; Weight per Dozen 25 lbs. **$11 50**
One in a Box; 1 Dozen in a Case; Weight per Case 38 lbs.

TOY PILE DRIVERS



All Cast Iron; Simple to Operate; by Turning the Crank of the Windlass, the Weight is Drawn to the Top of the Upright Where a Gravity Lock Holding the Weight Automatically Releases it; the Weight Drops the Full Distance and Will Readily Drive a Small Stake into the Ground; Attractively Finished with Bright Enamel.

Per Dozen

No. 1141—Extreme Height 11¾ inches; Length 10¼ inches; Width 3½ inches; Weight Each 2½ lbs. **$11 00**
One in a Box; 1 Dozen in a Case; Weight per Case 45 lbs.

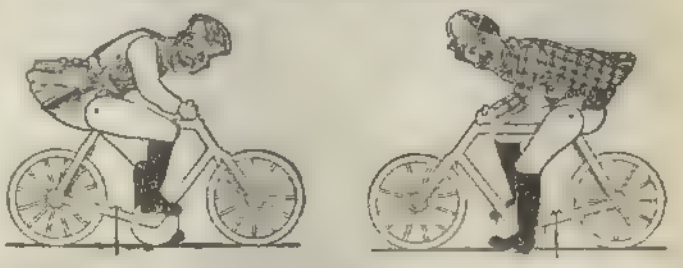
ANIMATED BOXING TOYS

Stained Wood Frame; Extra Heavy Handsomely Lithographed Cut Out figures; Steel Spring and Mechanism; Manipulating the Triggers Causes Figures to Approach, Hit, Swing Dodge, Retreat, Butt and Perform; Every Movement Natural to Fighters; Very Realistic and Entertaining.

Per Dozen

No. 1215—Length 11 inches; Weight per Dozen 6 lbs. **$5 00**
One Dozen in a Package

GRAVITY BIKE SPEEDERS

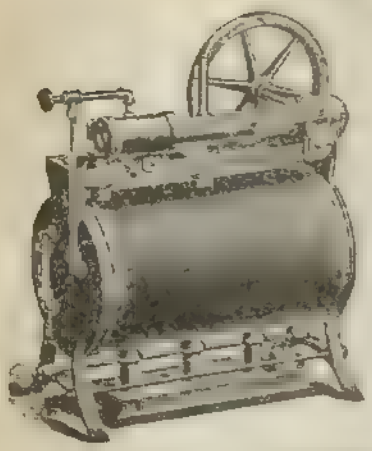


Balancing Motor Cycle Speeders; Runs Backwards or Forward on Slender Cord as Cord is Raised or Lowered from Either End. Always Right Erect with Perfect Balance; Jointed and Geared to Show Remarkable Flash of Speed; Stamped Steel, with Iron Balancing Weight; Brilliantly Enameled in Many Colors.

Per Dozen

No. 915—Three Assorted Characters, Motorcycle Mike, Speed Cop, and Uncle Sam; Length 8½ inches; Weight per Dozen 6 lbs. **$4 70**
One in a package

STEAM ENGINES



WEEDEN

Brass Boiler

Enclosed in a Blued Steel Jacket to Prevent loss of Heat by Radiation.

Boiler Trimmings are a safety valve, whistle and water gl[illegible] Pipes, [illegible] and Valves are of Polished N[illegible].

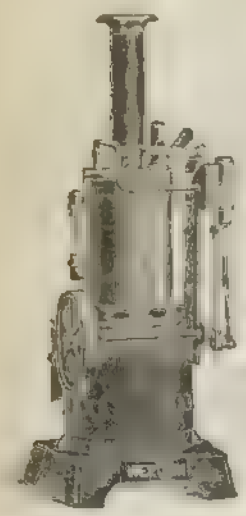
Engine Frame [illegible] **Balance Wheel** are Iron, Nickel Pl[illegible]. Cylinder is of Iron, and all its Fittings are of Br[illegible] Base is thoroughly [illegible] [illegible] Bearing; all Parts [illegible]

Full Directions for Runni[illegible] will be found in Each Box, with the Price of Duplicate Parts.

Per Dozen

No. 1110—Length 8 inches; Height 10 [illegible]; Diameter of Base 3 inches; Diameter of Balance Wh[illegible]. Weight per Dozen 69 lbs..... **$156.00**

Twelfth Dozen in a Carton



WEEDEN

Reversible

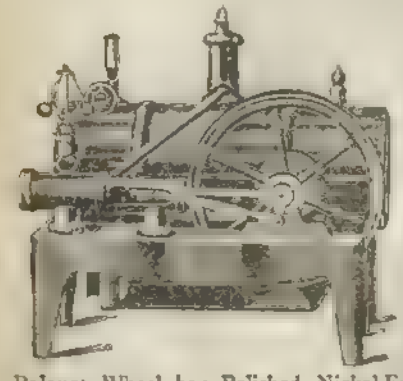
The Engine May be Reversed by Turning Wheel in the Direction you Wish it to go.

Polished Boiler; Fire Box and Stack of Blued Steel, Iron Base Finished in Enameled Colors, Working Parts are mounted on Steel Frame securely Riveted to the Fire Box; Balance Wheel [illegible] inches in Diameter with Polished Nickel Rim; The Cylinder is provided with Valve R[illegible], Nickel Plated Safety Valve and Whistle, Water Glass, Steam Pipes, Eccentric and Connecting Rods are all Enameled or Nickel Plated; Each Engine is provided with Swing Door with Safety attachment for Holding Lamp, Making it absolutely safe.

Per Dozen

No. 1108—Base 4½x4½ inches; Height 12 inches; Weight per Dozen 28 lbs..... **$84.00**

Twelfth Dozen in a Carton



WEEDEN

Highly Polished Brass Boiler, Trimmed with Steam Dome, W[illegible] Safety Valve and Water G[illegible] connected to Steam Chest and Cylinder by Polished Brass Pipe.

Enameled Iron Frame [illegible] Cylinder, Steam Chest are cast in one piece and cannot get out of order. The Slide Valve, Eccentric, and Connecting Rod are all cut from heavy sheet Brass, and are fastened securely together; Balance Wheel has Polished Nickel Face; Cylinders have Brass Jacket.

Every Engine thoroughly tested before being packed.

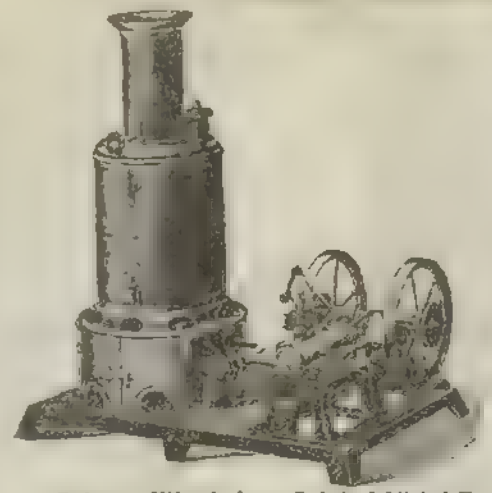
All Parts are interchangeable. Full Directions for Running will be found in each Box, with the Price of Duplicate Parts.

Per Dozen

No. 1107—Size of Base 6x6½ inches; Height of [illegible] 7¼ inches; Weight per Dozen 48 lbs. **$89.00**

Twelfth Dozen in a Carton

STEAM ENGINES



WEEDEN

Nickel Plated Boiler

Highly Polished with the usual Trimmings. **Engine Frame** is Iron and to this [illegible] the Cylinder is firmly attached. The inlet of the Steam is controlled by a Throttle Valve of the New Pattern, Nickel Plated with Enameled Finish Handle. **The Cylinder, Steam Chest** and Slide Rest are cast in one piece and cannot get out of order. The Slide Valve, Eccentric, and Connecting Rod are all cut from heavy Brass and are fastened securely together.

Balance Wheels have Polished Nickel Face.

Jacket on Cylinder is Nickeled Plated. Every Engine is Thoroughly Tested before packing.

Mounted on a Nickel Plated Iron Base, the edges of which are polished nickel

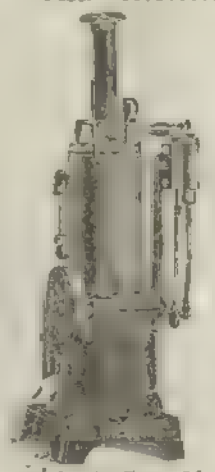
[illegible] parts of engine are interchangeable.

Full directions for running the engine will be found in each box, with the price of duplicate parts.

Per Dozen

No. 1109—Base 10x7 inches; 11¾ inches High; Weight per Dozen 60 lbs. **$114.00**

Twelfth Dozen in a Carton



WEEDEN

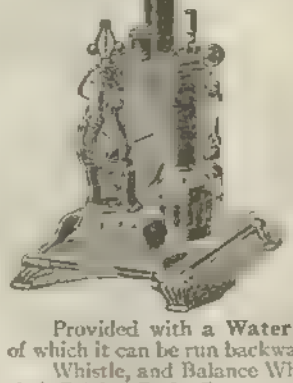
Reversible

The Engine may be Reversed by Turning Wh[illegible] Nickel Plated Safety Valve, Whistle, Water Glass, Steam Pipes, Eccentric and Connecting Rods are all Enameled or Nickel Plated; Each Engine is provided with Swing Door with Safety attachment for Holding Lamp, Making it absolutely safe.

Per Dozen

No. 1108—Base 4½x4½ inches; Height 12 inches; Weight per Dozen 28 lbs..... **$84.00**

Twelfth Dozen in a Carton



WEEDEN

Highly Polished Nickel Plated Boiler and Fly Wheel; Blued, firmly secured to a durable Base.

The **Whistle** is not soldered to the Boiler, but securely screwed on, and made steam tight. If broken, these Parts can be easily removed and new ones readily put on. The Filler is provided with fusible Cap.

Provided with a **Water Glass** and a **Reversing Valve**, by means of which it can be run backwards or forwards with equal speed.

Whistle, and Balance Wheel, are Polished Nickel. Other Parts Enameled Bright Red, Gray and Gold. Thoroughly Tested before being packed.

All Parts of the Engine are interchangeable and can be duplicated. Full instruction for running engine and price list of Duplicate Parts Packed in each box.

Per Dozen

No. 1105—Base 5x6 inches; Height 9 inches; Weight per Dozen 21 lbs. **$51.00**

Twelfth Dozen in a Carton

Vises

Massey Perfect Machinists' Vise

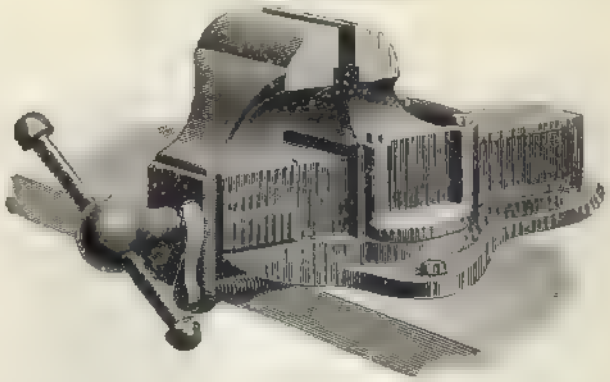


Fig 747

Furnished either Stationary or Swivel Base

List Prices

Vise No	Width of Jaw Inches	Jaw Opens Inches	Weight Stationary Base Vise	List Price Stationary Base Vise	List Price Swivel Base Vise
0	3⅝	1½	62	$ 7 75	$ 8 75
1	4¼	5½	42	9 50	10 50
2	5	6	70	11 50	13 50
3	5½	8	100	17 50	19 50
4	6½	9	140	23 00	25 00

Massey Perfect Combination Pipe Vise

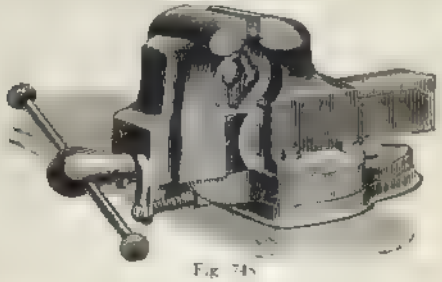


Fig 748

Furnished in Swivel Base only

List Prices

Vise No	Width of Jaw Inches	Holds Pipe Inches	Weight Pounds	List Price Each
25	3½	2	57	$15 00
26	4½	3	80	21 00

Vises

Massey Clincher Machinists' Vise

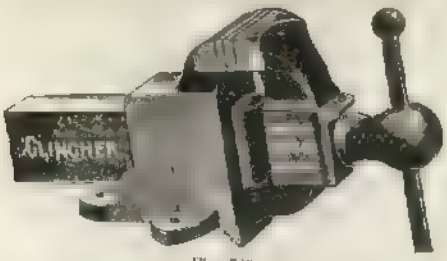


Fig 749

Furnished either Stationary or Swivel Base

List Prices

Vise No.	Width of Jaw Inches	Jaws Open Inches	Stationary Base Weight Pounds	Stationary Base List Price Each	Swivel Base Weight Pounds	Swivel Base List Price Each
30	3½	4	22	$ 4 00	28	$ 7 50
31	3⅝	5	32	7 00	37	8 75
32	4½	5½	44	8 50	52	10 50
33	4⅝	6½	55	10 00	67	12 50
34	5	7	74	13 00	85	16 00
35	5½	8½	100	17 50	115	21 00
36	6	9½	155	25 00	150	30 00
37	7	11	185	30 00	205	40 00

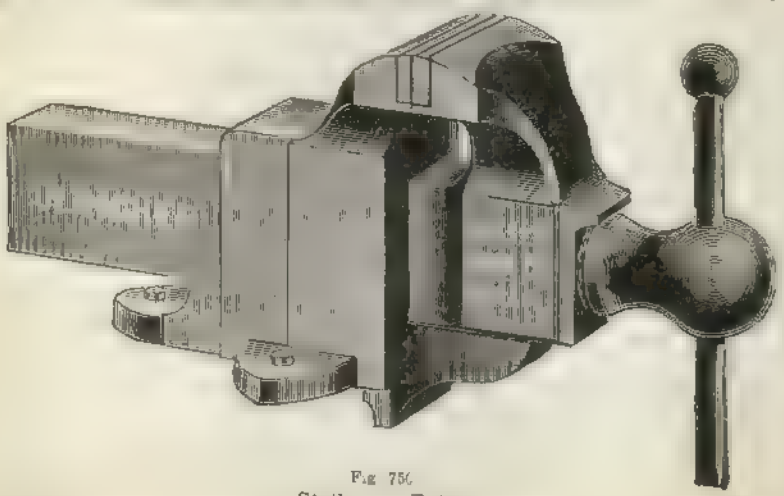


Fig 750

Stationary Bottom

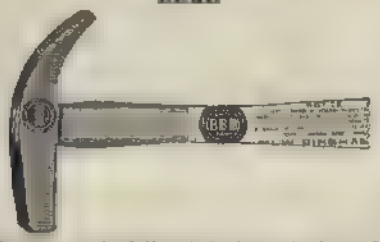
No 37 7-inch jaw—opens 11 inches weight 220 pounds — List Price each $40 00

Swivel Bottom

No 37. 7-inch jaw—opens 11 inches weight 220 pounds — each $41 00

BBB HAMMERS

BBB HEAD



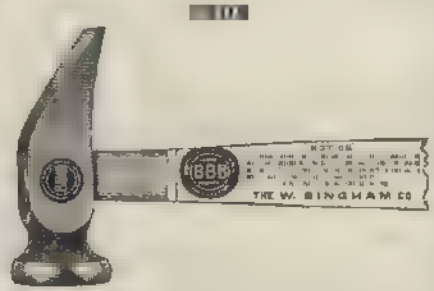
Octag n pole, full polished, made from fine tool steel oval white hickory handles.
No. B 155—We gi t 4 oz ... .Per dozen **$5.50**
Half Dozen in a Box

BUMPING OR AUTO BODY

Forged from one piece of solid tool steel, black finish with bright round and square face, best grade hickory oval handle

No. B 161	Size	Wt. less Hdl.	Per dozen
	1½	16 oz.	$15 00
	2	13 oz.	12 00

BBB



Made from tool steel, specially hand forged and tempered, polished and handled with best grade white hickory oval handles

No. B 153—Size	Wt. less Hdl	Per dozen
0	10 oz.	$5 00
1	12 oz	5.50

Half Dozen in a Box

BRICK

Hand forged from high grade tool steel, ebony finish, adze eye, first quality hickory handle fitted to the tool. Will hold without wedging, and is easily removed for redressing.

No. B 159—Size	Wt. less Hdl.	Per dozen
1	1 lb., 12 oz.	$15.50
2	2 lbs.	16.50
3	2 lbs., 8 oz	17.50

One Hammer and Handle in a Box

SKETZ OR FIRE BRICK

Hand forged from high grade tool steel, ebony finish, first quality hickory handle fitted to the tool
No. B 160—Size 2, weight less handle
2 lbs .....Per dozen $16.50
One Hammer and Handle in a Box

MAYDOLE'S HAMMERS

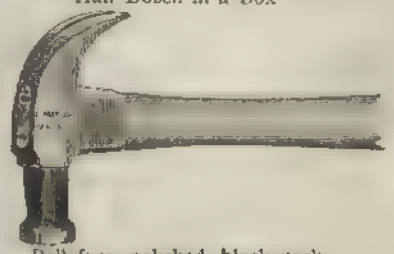
Maydole hammers are forged from solid crucible cast steel, tempered and hardened by the Maydole process and handled with selected white second growth hickory handles

ADZE EYE NAIL

Round pole, polished

Nos.	1	1½	2	3
Wt, less handle, oz.	20	16	13	7
Per dozen	$13 00	12.00	11 25	10 00

Half Dozen in a Box

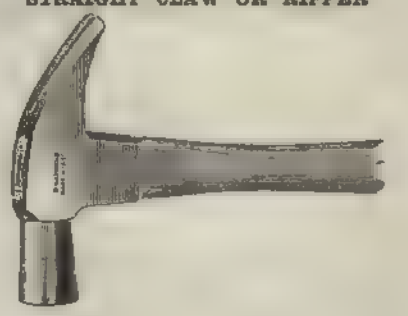


Bell face, polished black neck

Nos.	11	11½	12
Weight, less handle, oz.	19	16	12
Per dozen	$13 00	12.00	11 25
Nos.	**12½**	**13**	**14**
Weight, less handle, oz.	10	7	5
Per dozen	$10 50	10 00	9 50

Half Dozen in a Box

STRAIGHT CLAW OR RIPPER



Adze eye, round pole, polished

Nos.	701	701½
Weight, less handle, oz.	20	16
Per dozen	$13.00	12 00

Half Dozen in a Box

Adze eye, bell face, polished, black neck

Nos.	711	711½
Weight, less handle, oz.	19	16
Per dozen	$13.00	12.00

Half Dozen in a Box

RIPPING

Plain eye, full polished

Nos.	40	41	42
Weight, less handle, oz.	24	18	13
Per dozen	$12.00	10.50	9.25
Nos.	**42½**	**43**	**44**
Weight, less handle, oz.	10	7	4
Per dozen	$8.50	8.00	7.50

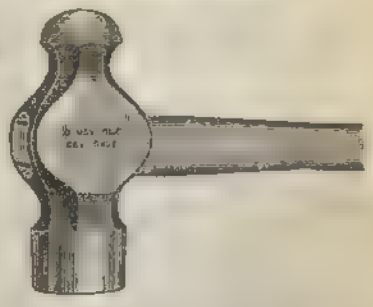
Half Dozen in a Box

A special thin pattern for close work
Plain eye, octagon face, polished.

Nos.	265	266	267	268
Wt., less handle, oz.	6	4	3	2
Per dozen	$8 00	7 50	7 25	7 00

Half Dozen in a Box

MACHINISTS' BALL PEIN



Octagon style, face, sides and pein polished

Nos.	120	121	122	123	124
Wt., less hdl., oz.	48	36	30	24	20
Per dozen	$30 00	25 50	23.25	21 00	19 50
Nos.	**125**	**126**	**127**	**128**	
Wt., less handle, oz.	16	13	10	7	
Per dozen	$18.00	16.50	15.25	14.25	
Nos.	**128½**	**129**	**129½**	**129¾**	
Wt., less handle, oz.	5	3	2	1	
Per dozen	$13.50	13 00	13.00	13.00	

Third Dozen in Box

MAYDOLE'S HAMMERS

Maydole Hammers are forged from solid crucible cast steel, tempered and hardened by the Maydole process and handled with selected white second growth hickory handles.

BLACKSMITHS' HAND

Plain edge, wedge pein, polished

Nos.	60	60½	61	62
Wt., less handle, oz.	64	56	48	42
Per dozen	$29.50	27.00	24.50	22.00

Third Dozen in a Box

Plain eye, riveting pein, polished

Nos.	91	92
Weight less handle, oz	36	28
Per dozen	$20.50	18.50

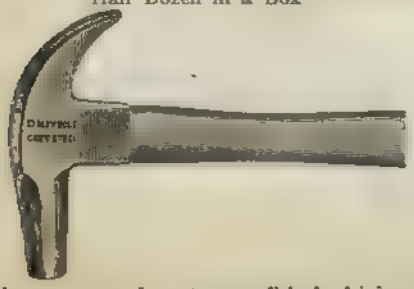
Third Dozen in a Box

FARRIERS'

Adze eye, Boston pattern, polished, driving

No. 132—Weight each, less handle, 10 ounces ..... Per dozen $11.50

Half Dozen in a Box

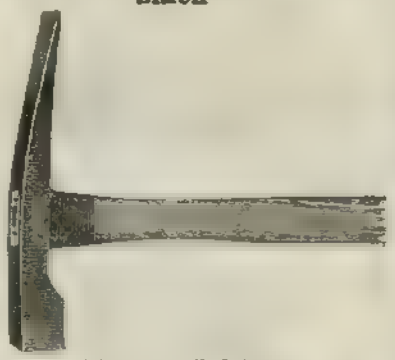


Adze eye, round pattern, polished, driving

No. 253—Weight each, less handle, 8 ounces ..... Per dozen $10.00

Half Dozen in a Box

BRICK



Adze eye, oil finish

Nos.	562	563
Weight, less handle, oz.	30	22
Per dozen	$20.00	18.00

Third Dozen in a Box

STANLEY HAMMERS

Stanley hammers are made of a special steel, carefully forged, hardened and tempered. The handles are made of selected second growth, white hickory. The improved method of fastening the head to the handle, makes it practically impossible for the head to fly off.

ADZE EYE NAIL

Adze eye, octagonal neck and pole, full nickel plated, mahoganized handle

No. S14-N.M.—Weight, less handle, 16 ounces ..... Per dozen $18.00

Half Dozen in a Box

Bell face, polished, enameled neck

		Per Doz.
No. S12—Weight, less handle,	5 oz...	$8 60
Weight, less handle,	7 oz...	8.90
Weight, less handle,	13 oz...	9.50
Weight, less handle,	16 oz...	10.10
Weight, less handle,	20 oz...	10.70

Half Dozen in a Box

Plain face, polished

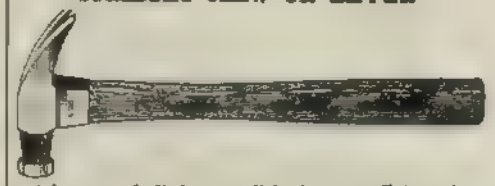
		Per Doz.
No. S11—Weight, less handle,	7 oz...	$8.90
Weight, less handle,	13 oz...	9.50
Weight, less handle,	16 oz...	10.10
Weight, less handle,	20 oz...	10.70

Half Dozen in a Box

STANLEY HAMMERS

Stanley hammers are made of a special steel, carefully forged, hardened and tempered. The handles are made of selected second growth, white hickory. The improved method of fastening the head to the handle, makes it practically impossible for the head to fly off.

STRAIGHT CLAW OR RIPPER



Adze eye, bell face, polished, enameled neck

		Per Doz.
No. S22—Weight, less handle,	13 oz...	$9 50
Weight, less handle,	16 oz...	10.10
Weight, less handle,	20 oz...	10 70

Half Dozen in a Box

Adze eye, plain face, polished

		Per Doz
No. S21—Weight, less handle,	13 oz....	$9 50
Weight, less handle,	16 oz....	10 10
Weight, less handle,	20 oz ..	10.70

Half Dozen in a Box

RIVETING

Plain eye, polished

		Per Doz.
No. S147—Weight, less handle,	4 oz....	$6.50
Weight, less handle,	7 oz ...	6 80
Weight, less handle,	9 oz....	7.15
Weight, less handle,	12 oz...	7 40
Weight, less handle,	15 oz ...	7 70
Weight, less handle,	18 oz....	8.30
Weight, less handle,	22 oz....	8.90
Weight, less handle,	26 oz....	9 50

Half Dozen in a Box

BUCKEYE HAMMERS

BALL PEIN

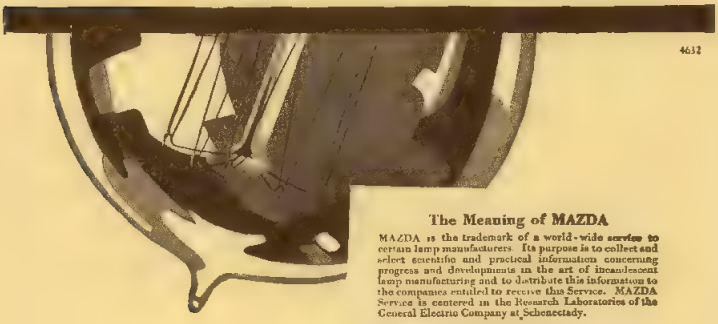
Crucible tool steel, octagon pattern, natural forge finish, polished face and pein. Handled with a medium grade hickory handle.

No. 252	Size	Weight, less handle	Per dozen
	4/0	6 oz.	$12.00
	3/0	8 oz.	12.00
	2/0	12 oz.	12.00
	0	16 oz.	12.50
	1	20 oz.	13.50
	2	24 oz.	14.50
	3	28 oz.	15.50
	4	32 oz.	16.50
	5	36 oz.	17.50

Half Dozen in a Box

"Not the name of a thing, but the mark of a service"

No lamps can ever be marked MAZDA unless they embody MAZDA Service standards of excellence



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The Meaning of MAZDA

MAZDA is the trademark of a world-wide service to certain lamp manufacturers. Its purpose is to collect and select scientific and practical information concerning progress and developments in the art of incandescent lamp manufacturing and to distribute this information to the companies entitled to receive this Service. MAZDA Service is centered in the Research Laboratories of the General Electric Company at Schenectady.

The mark MAZDA can appear only on lamps which meet the standards of MAZDA Service. It is thus an assurance of quality. This trademark is the property of the General Electric Company.

RESEARCH LABORATORIES OF GENERAL ELECTRIC COMPANY

MECHANICAL TOYS

FRICTION POWER HILL CLIMBER

All Metal Construction; Handsomely decorated in various colors; provided with Roller Bearings and Floating Axle. A simple push, raising the toy from the floor for successive sweeps, will generate sufficient power to propel the toy a great distance.

ONE-COACH TRAIN

Per Dozen

No. 457—Dimensions 23⅛x2¾x3¾ inches; Weight per Dozen 16½ lbs..... **$12 00**

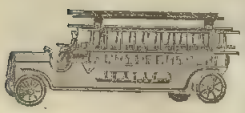
Two Dozen in a Carton

FRICTION LOCOMOTIVE

Per Dozen

No. 460—Dimensions 12⅛x2¾x3¾ inches; Weight per Dozen 9 lbs..... **$7.50**

Six Dozen in a Carton



Aerial Ladder Auto Truck; Gray with Red Fenders, Seat and Ladders, Gold Bronzed Wheels and Trimmings, Two Detachable Ladders and One Pivoted to be Extended in the Air; the Other Two Ladders Can be Fitted on Truck Ladder, Making Height Over 50 inches; Removable Enameled Chauffeur.

Per Dozen

No. 452—Length 21⅛ inches; Width 4¼ inches; Height with Ladders Down 8½ inches; Weight per Dozen 38 lbs..... **$24.00**

One Dozen in a Package

WATER TOWER

Per Dozen

No. 459—Dimensions 11⅛x3¾x20 inches, Weight per Dozen 23 lbs..... **$12 00**

Two Dozen in a Carton

FIRE ENGINE

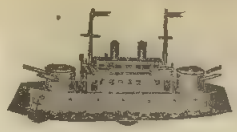
Per Dozen

No. 451—Dimensions 13¾x5x9¼ inches; Weight per Dozen 37½ lbs..... **$24 00**

One Dozen in a Carton

MECHANICAL TOYS

FRICTION POWER HILL CLIMBER



BATTLE SHIP

Per Dozen

No. 453—Dimensions 18⅝x4¾x8¾ inches; Weight per Dozen 35¼ lbs..... **$24 00**

One Dozen in a Carton

Battleship; Gray Finish, with Green Waterline; Two Red Funnels; Gold Bronzed Masts and Crows Nests; with U. S. Flag; Four Life Boats.

Per Dozen

No. 458—Length 12¾ inches; Height 8 inches; Weight per Dozen 18 lbs..... **$12 00**

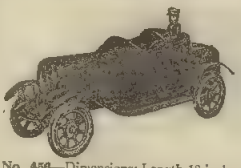
Two Dozen in a Package

DREADNAUGHT

Per Dozen

No. 462—Dimensions 10⅜x2¼x4 inches; Weight per Dozen 7½ lbs..... **$7.50**

Six Dozen in a Carton



ROADSTER

Brilliant Red, Bronzed Wheels and Decorations with Removable Enameled Chauffeur.

Per Dozen

No. 456—Dimensions: Length 13 inches; Height 5½ inches; Width 5 inches; Weight per Dozen 18 lbs..... **$12 00**

Two Dozen in a Carton

Moving Van; Stamped Steel; Dark Green, with Gold Bronzed Wheels and Decorations; Ample Space Inside for Loading with Small Objects; Removable Enameled Chauffeur.

Per Dozen

No. 455—Length 11¾ inches; Width 3¾ inches; Height 7 inches; Weight per Dozen 24 lbs..... **$12 00**

Two Dozen in a Package

DELIVERY TRUCK

Brilliant Red, Gold Bronzed Wheels and Decorations; Removable Enameled Drivers.

Per Dozen

No. 461—Length 10¼ inches; Width 3¼ inches; Height 4½ inches; Weight per Dozen 12 lbs..... **$7 50**

Six Dozen in a Carton

MECHANICAL TOYS
FRICTION POWER

DAYTON

PANAMA-PACIFIC EXPRESS

Railroad Passenger Train; Locomotive and Tender, Same as No. 414; Two Passenger Coaches, Enameled Green with Red Roof and Wheels; Gold Bronzed Decorations; Friction Power on Locomotive Only.

Per Dozen

No. 405—Length 41 inches; Weight per Dozen 50 lbs. **$33 00**

Two Dozen in a Package

FRICTION TOYS

Locomotive and Tender; Enameled Bright Red with Gold Bronzed Wheels and Trimmings; Double Friction, will Run Forward or Backward.

Per Dozen

No. 414—Length 17¼ inches; Width 4 inches; Height 4¾ inches; Weight per Dozen 29 lbs. **$11.00**

Two Dozen in a Package

TRACTION CAR

The Motorman can be Placed at Either End of the Car, as the Toy will Run Backward or Forward, one way as well as another. Also has Trolley and Bell, which can be Run by Tapping the Bell Cork, just like a Real Street Car.

Beautifully Finished in Green and Red, striped in Gold.

Per Dozen

No. 406—Length 13¾ inches; Width 4¼ inches; Height 6½ inches; Weight per Dozen 32 lbs. **$23.00**

Two Dozen in a Carton

Scout Cruiser; Gray Finish with Blue Water Line; Two Red Funnels; Four Bronzed Cannon; Double Friction, Runs Forward or Backward.

Per Dozen

No. 411—Length 14¾ inches; Width 3½ inches; Height 5¼ inches; Weight per Dozen 25 lbs. **$16 00**

Two Dozen in a Package

MECHANICAL TOYS
FRICTION POWER

DAYTON

AERIAL TRUCK

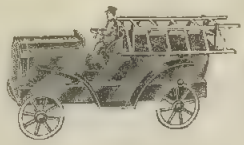
Representing what is Popularly Termed a "Hook and Ladder Truck," has Four Large Steel Ladders, all of which can be Coupled Together and Raised High into the Air or Lowered, as Desired, by Turning the Small Crank on the Side. When Raised the ladders can be firmly Held at any Altitude Desired by pressing the Hoisting Crank Against the catch Provided. By Releasing the Crank the Extension Ladders will Drop Back Again into Position. This Toy, which is Manned by Two Firemen, is also Equipped with an Automatic Gong, which Rings Continuously whilst Toy is in Motion. Can be Made to Run Either in a Straight Way Course or in a Circle by Adjusting the Front Wheels, as desired.

Enameled Red, Gold Bronzed Wheels and Fenders and Gold Bronze Decorations.

Per Dozen

No. 402—Length 20 inches; Width 4¾ inches; Height 8 inches; Height Ladders fully Extended over 50 inches; Weight per Dozen 48 lbs. **$33 00**

Two Dozen in a Carton

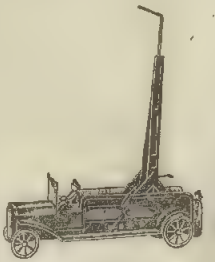


Fire Ladder Truck; Bright Red; Gold Bronzed Wheels, Fenders and Trimmings; Two Removable Green Ladders, 7 inches Long; Removable Enameled Chauffeur.

Per Dozen

No. 415—Length 12 inches; Width 4¼ inches; Height 5½ inches; Weight per Dozen 26 lbs. **$16 00**

Two Dozen in a Package



WATER TOWER

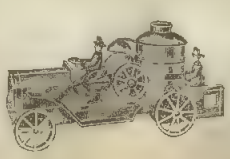
Enameled Steel Chauffeur; Enameled Iron Engine.

The Tower and Water Pipe can be Raised High into the Air, and Lowered, as Desired, by winding the small Cranks on the side. It is Manned by Two Firemen, has Automatic Gong, which Rings Continuously while Toy is in Motion, Front Wheel can be adjusted so as to Make it Run Straight or in a Circle. Beautifully Painted in Orange with Red, Green and Gold Trim and Gold Bronzed Tower and Wheels.

Per Dozen

No. 404—Length 20 inches; Width 5 inches; Height 8 inches, Weight per Dozen 48 lbs. **$23 00**

Two Dozen in a Carton



DAYTON FRICTION TOYS

Fire Engine; Brilliant Red, Copper Bronzed Wheels, Fenders, Boiler and Gong; Removable Enameled Steel Chauffeur; Removable Enameled Iron Engineer; Double Friction Motor, Runs Forward or Backward.

Per Dozen

No. 401—Length 14½ inches; Width 4¾ inches; Height 7 inches; Weight per Dozen 36 lbs. **$23.00**

Two Dozen in a Package

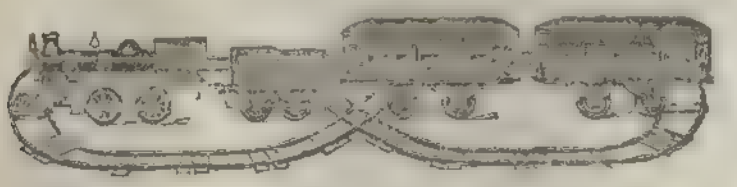
MECHANICAL TRAINS
CLOCK SPRING MOTIVE POWER

Iron Locomotive, 7½ inches Long, with Attached Railroad Pilot Rod; 4-inch Tender with Imitation Coal Load; Three 5½-inch Coaches, 18 Sections of Track and One Crossing Section with Tunnel, Bridge, and Semaphore. The Bridge and Semaphore Are Made from the Popular Steel Construction Toy Material and Can Be Used with that Class of Toys in Building Many Railroad Structures.

Per Dozen
No. 908—Weight per Dozen, 19 lbs..... .....**$96 00**
One Set in a Carton

Locomotive and Tender same as in No. 908 Outfit Described Above; Two 6½-inch Coaches; 14 Sections of Track, with Two Switches; Making a Combination Oval and Round Design.

Per Dozen
No. 905—Weight per Dozen, 56 lbs.....**$78 00**
One Set in a Carton



Locomotive and Tender same as in No. 908 Outfit Described above; Two 6½-inch Coaches; 14 Sections of Track, with One Crossing Section Making Figure 8 Design.

Per Dozen
No. 904—Weight per Dozen, 53 lbs..... **$60 00**
One Set in a Carton

Locomotive and Tender same as in No. 908 Outfit. Described Above; Two 6½-inch Coaches; 10 Sections of Track, Making a Large Oval.

Per Dozen
No. 903—Weight per Dozen, 45 lbs **$48 00**
One Set in a Carton

Iron Locomotive, 6 inches Long; 4-inch Tender; Three 5½-inch Coaches; 8 Sections of Track, Making a Large Oval.

Per Dozen
No. 902—Weight per Dozen, 41 lbs.....**$33 00**
One Set in a Carton

MECHANICAL TRAINS
CLOCK SPRING MOTIVE POWER

Locomotive and Tender same as No. 902 Outfit, Two 5½-inch Coaches; 6 Sections of Track, Making Oval Design.

Per Dozen
No. 901—Weight per Dozen, 31 lbs..... ....**$22 00**
One Set in a Carton

Locomotive, Cars and Tender All Steel Construction; Very Attractively Lithographed in Yellow, Green and Black; Engine Has All-Steel Geared Clock Works, Which Insures Long Wearing Qualities; Brightly and Attractively Finished.

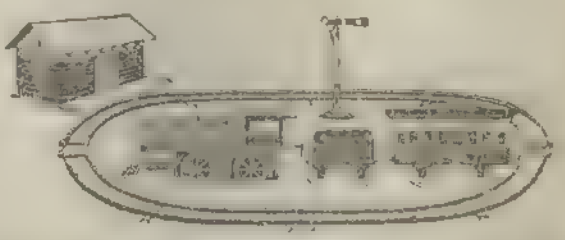
Per Dozen
No. 916—Length of Train 14 inches; 4 Sections of Circular Track, Making Over 5 Feet of Track; Weight per Dozen, 16 lbs.....**$13.50**
One Set in a Carton

Same as No. 916 Outfit with the Addition of One More Coach and Two More Sections Straight Track, Making Large Oval Track.

Per Dozen
No. 913—Length of Train 19 inches; with 6 Sections of Track; Weight per Dozen 32 lbs.....**$18.00**
One Set in a Box

Same as No. 916 Outfit with the Addition of One More Coach and Two More Curved Sections of Track and One Crossing Section Making 10 Feet of Figure 8 Track

Per Dozen
No. 917—Length of Train 19 inches; with 6 Sections of Track and Crossing Section; Weight per Dozen Sets 34 lbs.....**$30 00**
One Set in a Box



Same as No. 916 Outfit, but Has Metal Station 6x6 inches, Large Metal Semaphore and Bridge 7½ inches Long with Adjustable Switch.

No. 919—Length of Train 14 inches; 4 Sections of Curved Track, Station and Semaphore; Weight per Dozen Sets 35 lbs. . **$27 00**
One Set in a Box

MECHANICAL TRAINS
GRAVITY POWER

Consists of Brilliantly Enameled Steel Station 12 inches High with Elevator for Raising Track; Five Sections of 10 inch Track 1¾ inches Wide; Enameled Steel Incline and Bumper, and Railroad Coach, 6½ inches Long; Enameled in Bright Colors. When Track is Elevated in Station, by Pulling Cord, the Car Runs Full Length of Track until Stopped by Bumper; When String is Released, Track Lowers to Original Position and Car Immediately Returns to Station.

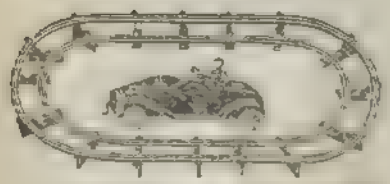
Per Dozen
No. 927—Weight per Dozen 32 lbs..... **$15 00**
One in a Package

AUTO SPEEDWAY TOYS

Double Speedway

Consists of Curved Sectional Track and Bridge Work to make Two Oval Banked Speedway Tracks 5½x3 Feet; Heavy Bright Tin; Deep Formed Rail Prevents Speeding Cars from Jumping Track; Strong Bridgework in Exact Imitation of Steel Girders Used in Bridges; Two Strong Steel Automobiles; with Removable Drivers, 8 inches Long; Enameled in Brilliant Colors and Gold Bronzed; Motor Winds up by Turning Starting Crank.

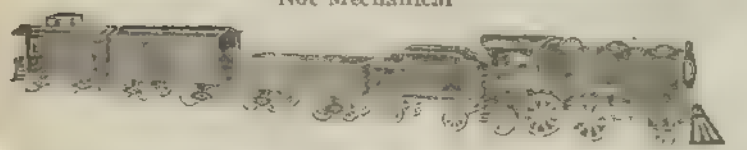
Per Dozen
No. 419 –Weight per Dozen 105 lbs..... **$120 00**
One Dozen in a Package



Same as No. 419 Except with Lower Speedway Track only and One Racing Automobile.

Per Dozen
No. 417 –Weight per Dozen 75 lbs..... **$50 00**
One Dozen in a Package

STEEL TRAINS
Not Mechanical



Freight Train—Consists of Large Wood Locomotive for Drive Power; Separate Tender; Open Coal Car; Merchandise Car, and Sliding Doors, and Caboose; Enameled Brilliant Red and Yellow, Decorated and Lettered in Gold Bronze.

Per Dozen
No. 454—Length 65 inches; Height 8 inches; Weight per Dozen 90 lbs..... **$48 00**
Half Dozen in a Package

IRON TRAINS
NOT MECHANICAL

Cast Iron Locomotive, Steel Tender, and Coaches; Cars Journal Lever Coupling, Locomotive Black Enameled with Red Wheels, and Red and Gold Trimming, Nickel Plated Drive Shaft; Coaches Red Enameled; Tender Black Enameled; All Gold Trimmed and Lettered; Length 44 inches.

Per Dozen
No. 1423—Weight per Dozen 40 lbs..... **$17 00**
One in a Package

Cast Iron Locomotive and Tender, Black Enameled with Gold Trimmings; Four Steel Coaches, Enameled in Solid Colors, One each Red, White, Blue and Yellow; Length 30 inches.

Per Dozen
No. 1422—Weight per Dozen 13 lbs..... **$8.00**
Half Dozen in a Package

Cast Iron Locomotive and Tender; Black Enameled with Gold Trimmings; Two Steel Coaches, Red Enameled; Length 17 inches

Per Dozen
No. 1421 –Weight per Dozen 9 lbs..... **$4 70**
Half Dozen in a Package

Locomotive and Tender, with Three Coaches; Locomotive Black Enameled, with Wheels and Gold Trimmings; Coaches, One Each Red Enameled, Aluminum Bronzed, and Blue Enameled; Length 21 inches.

Per Dozen
No. 1313 Weight per Dozen 24 lbs..... **$9 00**
Quarter Dozen in a Package

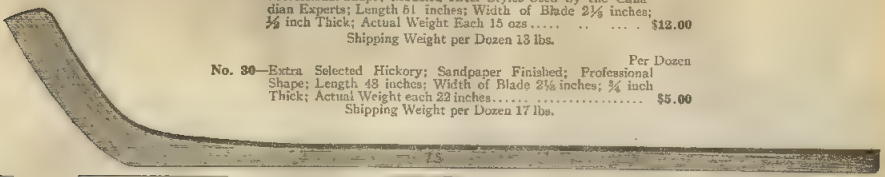
Locomotive and Tender, with Two Coaches; Locomotive Black Enameled with Red Wheels and Gold Trimmings; Coaches Red Enameled; Length 14 inches.

Per Dozen
No. 1312—Weight per Dozen 15 lbs..... **$4 30**
Half Dozen in a Package

HOCKEY STICKS

All of Our Hockey Sticks are Made of Selected Kiln Dried Timber; They are the Most Approved Patterns and Correct in Shape; Steam Bent, so that the Grain of Wood is Continuous from End of Handle to Tip of Blade.

MENS CANADIAN



Per Dozen

No. 75—Extra Selected Straight Grained White Ash, Sandpaper Finished; Professional Shape; Modeled After Styles Used by the Canadian Experts; Length 51 inches; Width of Blade 2½ inches; ½ inch Thick; Actual Weight Each 15 ozs..... **$12.00**

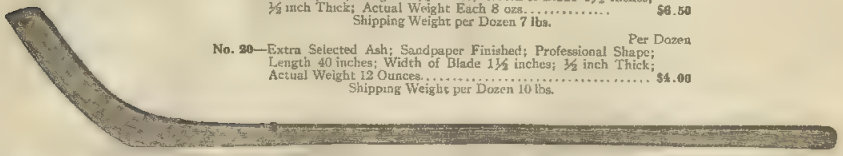
Shipping Weight per Dozen 13 lbs.

Per Dozen

No. 30—Extra Selected Hickory; Sandpaper Finished; Professional Shape; Length 48 inches; Width of Blade 2⅛ inches; ¾ inch Thick; Actual Weight each 22 inches..... **$5.00**

Shipping Weight per Dozen 17 lbs.

BOYS CANADIAN



Per Dozen

No. 40—Extra Selected Straight Grained White Ash, Sandpaper Finished, Professional Shape; Modeled After Styles Used by the Canadian Experts; Length 43¾ inches; Width of Blade 1½ inches; ½ inch Thick; Actual Weight Each 8 ozs..... **$6.50**

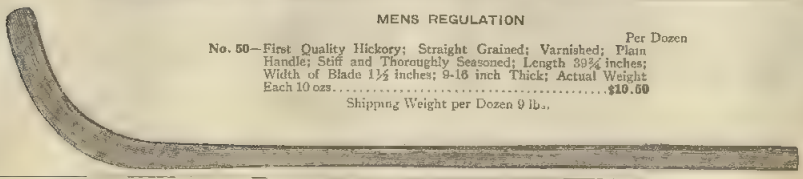
Shipping Weight per Dozen 7 lbs.

Per Dozen

No. 20—Extra Selected Ash; Sandpaper Finished; Professional Shape; Length 40 inches; Width of Blade 1½ inches; ½ inch Thick; Actual Weight 12 Ounces..... **$4.00**

Shipping Weight per Dozen 10 lbs.

MENS REGULATION

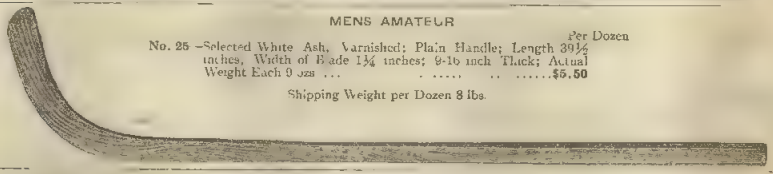


Per Dozen

No. 50—First Quality Hickory; Straight Grained; Varnished; Plain Handle; Stiff and Thoroughly Seasoned; Length 39¾ inches; Width of Blade 1½ inches; 9-16 inch Thick; Actual Weight Each 10 ozs..... **$10.50**

Shipping Weight per Dozen 9 lbs.

MENS AMATEUR

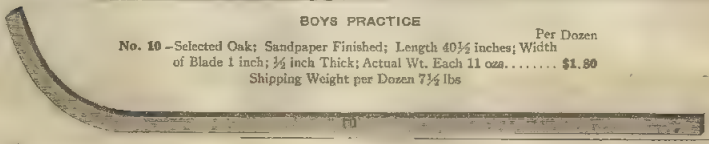


Per Dozen

No. 25—Selected White Ash, Varnished; Plain Handle; Length 39½ inches, Width of Blade 1¼ inches; 9-16 inch Thick; Actual Weight Each 9 ozs..... **$5.50**

Shipping Weight per Dozen 8 lbs.

BOYS PRACTICE

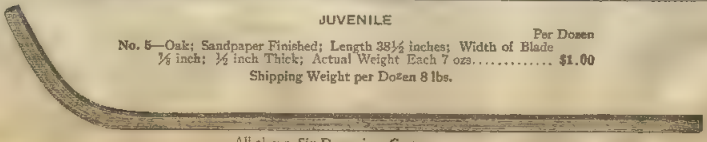


Per Dozen

No. 10—Selected Oak; Sandpaper Finished; Length 40½ inches; Width of Blade 1 inch; ½ inch Thick; Actual Wt. Each 11 ozs..... **$1.80**

Shipping Weight per Dozen 7¼ lbs

JUVENILE



Per Dozen

No. 5—Oak; Sandpaper Finished; Length 38½ inches; Width of Blade ⅛ inch; ½ inch Thick; Actual Weight Each 7 ozs..... **$1.00**

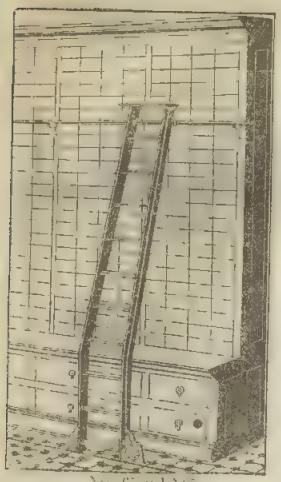
Shipping Weight per Dozen 8 lbs.

All above, Six Dozen in a Crate

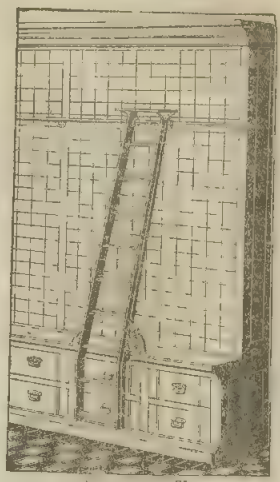
✣ROLLING STORE LADDERS

MADE TO ORDER ONLY

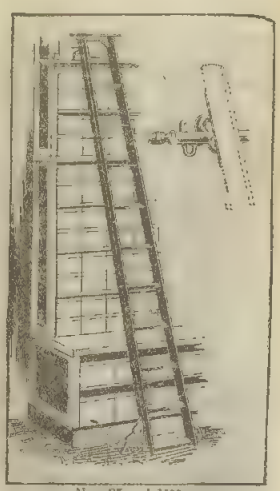
BICYCLE



Nos. 65 and N65.
Bent Floor Ladders.



Nos. 75 and N75.
Bent Base Ladders.



Nos. 85 and N85.
Straight Floor Ladders.

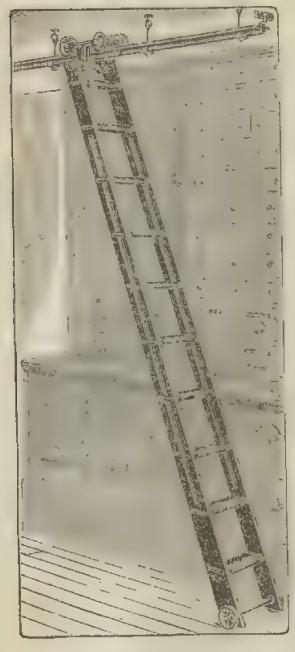
Made of Selected Oak, Natural Finish, Varnished

In these Styles the Truck [illegible] Wood Lower Track and Japanned Brackets. The Ladders are Supported from Underneath Solid Double Iron Suspended Rolling Trucks. The Ladder Calling or Sliding Device is Supported from Above by

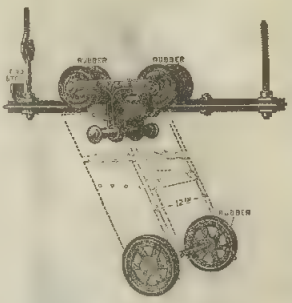
✠STORE LADDERS

MEYERS

TROLLEY OR CEILING



Ladder is Made of Clear Georgia Pine, Filled and Varnished; Open Panel Sides 5 inches Wide; Steps 5 inches Wide; Width of Ladder 12 inches; Each Step is Supported at Each End with a Malleable Iron Dowel Tee, which Makes an Extra Strong Construction; The Trolley is Self Adjusting; Fitted with 3 inch Anti-rattler Wheels, Lathe Turned and Bored and Fitted with Cushion Rubber Tires and Turned Steel Bearings. The Track is Double Angle Steel Rail, Suspended from the Ceiling by Lag Screws; Complete with Clamps, Brackets and End Stops; Can be Suspended by Jointed or Rigid Hangers, or Screwed Close to the Ceiling with Flanged Plates; Can be Used on an Uneven Ceiling without Blocking or Bridging.



Enlarged View of Trolley Track and Lower Rollers

The Floor Wheels or Travelers are 5 inches in Diameter, Made with Metal Sides, Fitted with Cushion Rubber Tires, Clamped in Such a Position that they Cannot Become Loose; these Rollers are Placed on a Steel Axle and Run Without Friction or Noise.

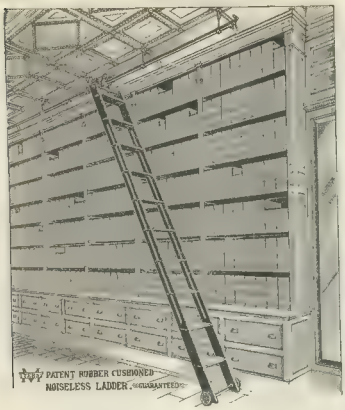
		Each
No. ML	—Myers Ladder Complete with Attachments; Average Shipping Weight 50 lbs.	$36 00
		Per Foot
No. MT	—Myers Steel Trolley Track Complete with Hangers; Weight per Foot 2 Lbs.	$0.54
No. ELW	—Extra Lower Wheel or Traveler, for Myers Trolley or Ceiling Ladders; Weight Each 9 ozs.	2.40
		Per Pair
No. ERTL	—Extra Rubber Tires, for Lower Wheels or Travelers; Weight per Pair 6 ozs.	$2.80
		Per Set
No. ERT	—Extra Rubber Tires, for Upper Trolley; (In Sets of Four) Weight per Set 9 ozs.	$5 60

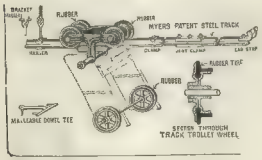
To Order Myers Ladders—Give Exact Height to Ceiling and Length of Each Track; if Height of Ceiling Varies, Give Height at Each End and Center of Each Run of Track.

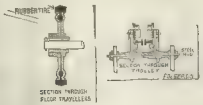
Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory.

STORE LADDERS.

MYERS' NOISELESS.







F. O. B. Ashland, Ohio

	Each
Myers' trolley rolling shelf ladder, complete with trolley and rubber tire floor wheels	$27.00
	Per Foot
Myers' steel track, with hanging hooks	$0.40

In ordering, give height of ceiling from the floor and length of track. To ascertain the length of ladder required, subtract from height of the room 11 inches and multiply the remainder by one and one-tenth.

For shipment only from factory.

MONEY DRAWERS.

TUCKER.

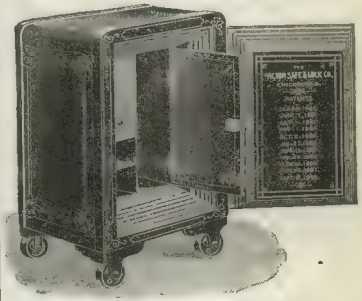
Each

No. 2—Tucker's Alarm Tills; stained front; outside measure, 19x16½x4¾ inches; weight per dozen, 140 lbs. **$6.50**

Half dozen in a crate.

SAFES.

VICTOR.



The Victor Safes are made under several valuable patents, and are equal if not superior to any other safes on the market. These patents protect not only the original and important features of the safes, but also special labor-saving machinery with which they are manufactured and which materially reduces their cost, at the same time adding to their burglar-proof and fire-proof qualities.

Write for special catalog of safes containing descriptions, illustrations, testimonials and prices.

Prices F. O. B. Cincinnati, Ohio.

See Victor safe and lock catalog pages 28 to 52 for description.

Nos.	2½	3	4	5
Each				
Nos.	8	11	16	
Each				

Prices on Jeweler's steel lined Safes. Vault Doors, Bank Deposit Cases, Etc., furnished on application.

The Milburn Light

Fig. 315

This light is adapted for lighter work than the No. 3X and is very useful for builders, contractors, railroads, mines and circuses.

No. 2. 5000-candle power light, 1000 feet

Price, with extra cylinder, complete	each $62.00
Price, with one cylinder	each 50.00

No. 3X. 5000 to 12,000-candle power light. 500 feet

Price, with extra cylinder, complete	each $83.00
Price, with one cylinder	each 71.00

This light will be shipped with extra cylinder unless otherwise specified.

The Buckeye Carbide Flare Light

Fig 316

Used by the United States and foreign governments, the largest railroads and contractors, waterworks, mills and factories. Gives cost results equal to one cent per 1000 candle power

Made in sizes from 500 to 10,000 candle power.

Makes night work light work.

Buckeye Carbide Hand Lamps

Valuable for general work where a good light is desirable, such as in sewers, water pipe repairs, cellars, tunnels, etc

Size generator, 6 x 12 inches; carbide capacity, 2 pounds.

Price..... each $13.50

Fig 317

TURNING SAWS

MILLERS FALLS

Natural Finish Birchwood; Knockdown Frame; Ebonized Handles; Steel Tension Rod; Index on each Handle to show how far to turn; Friction regulated by Screws. Each Saw furnished complete with One Bright Steel Blade ¼ inch Wide; 9 Teeth to the inch.

Nos.	TS14	TS18	TS20	TS24
Length, inches	14	18	20	24
Wt. each, lbs.	1½	1⅝	1¾	1¾
Wt. Dozen, lbs.	19¾	19½	20¼	21
Per Dozen	$20.34	$21.30	$22.10	$22.70

One in a Box

EXTRA BLADES FOR TURNING SAWS

Bright Steel; ¼ inch Wide; 9 Teeth to the inch.

Nos.	TSB14	TSB18	TSB20	TSB24
Length, inches	14	18	20	24
Weight, Dozen, lbs.	¾	⅞	1	1⅛
Per Dozen	$2.60	3.30	3.70	4.60

Loose

JEWELERS SAWS

MILLERS FALLS

Note—Cut shows Frame complete with Blade, but Blades are not included in price of Frames. They are intended for use with regular Scroll or Fret Saw Blades.

Per Dozen

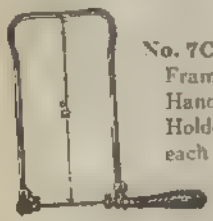
No. JS—Forged Spring Steel Frame, Nickel Plated and Polished; Cocobolo Handle; Adjustable from 5 to 8 inches; Weight each 8 ozs.; Weight per Dozen 4½ lbs. $25.82

Quarter Dozen in a Box

SCROLL OR FRET SAWS

JONES CABLE

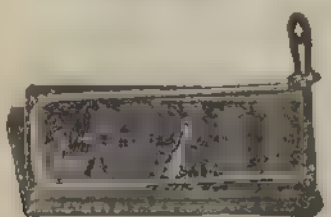
This Saw is constructed with a Tubular Back, through which Runs a Cable Connecting Both Ends of Saw Frame, which Causes the Blade to Turn any Angle by Turning the Handle Only, without removing it from the work.



Per Dozen

No. 7C—5 inch Blade; Nickel Plated Hollow Steel Frame; Depth of Cut 9¼ inches; Hardwood Handle 3¾ inches Long; Hardened Steel Blade Holders; Complete with One Blade; Weight each 13 ozs.; Weight per Dozen 9¾ lbs. $34.00

Sixth Dozen in a Box



MILLERS FALLS BRACKET SET

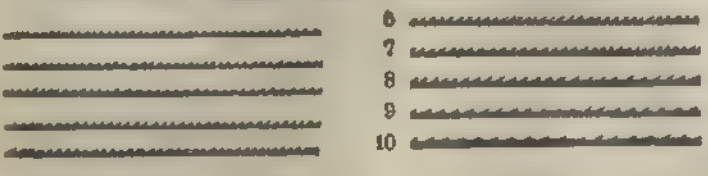
Rough Nickeled with Japanned Handle; Patent Clamps for Holding the Blades, Three Sheets of Designs, embracing a variety of Fancy and Useful Articles; Twelve Saw Blades, One Awl, One Sheet of Impression Paper.

Per Dozen

No. 1B—Frame 5x12 inches; Weight each 14 ozs. $12 00

One in a Box

SCROLL AND FRET SAW BLADES



For Either Hand or Machine Saws: Length 5 inches.

Nos.	1 to 6	7	8	9	10
Wt. Gross, oz	2	2	2½	2½	3
Per Gross	$2.50	2.90	3.10	3 30	3.60

One Dozen Each Size in a Bundle; One Gross in a Box

SCROLL OR FRET SAW MACHINES

MILLERS FALLS

STAR

A well balanced, steady machine; Iron castings Japanned Black and Ornamented with Red Stripes; Steel Arbors. **Heavy Drive Wheel,** giving power. **Arms Hung in the Middle of their Supporting Casting** to give free and easy motion; **Adjustable,** so may be kept parallel. Two Balance Wheels, **one each of Iron and Emery,** adding steadiness to the motion. **Adjustable Clamps for the Emery Wheel.** Capable of embracing other sizes of emery and buffing wheels, grindstones, etc. **Nickeled Tilting Saw Table. Automatic Dust Blower.** Lever Saw Clamps and Adjustable Saw Guide.

Each

No. 110—Depth of Arms 20½ inches; Height Over all 37 inches; Net Weight 41 lbs. $14 30

One in a Box, Knocked down, Weight 60 lbs.

ROGERS

With Blower and Drill Attachment

Each

No. 1R—Japanned Iron Frame, Ornamented with Gilt and Red Stripes; 7½ inch Iron Tilting Table; 20½ inch Hardwood Rocking Arms; 12 inch Drive Wheel; 5 inch Balance Wheel; Round Leather Belt; Height 37 inches; Base 23x16 inches; Complete with 13 Saw Blades, 1 Wrench, Sheet of Designs and 3 Drills. $9 50

One in a Box, Knocked down; Weight 45 lbs.

CRICKET

Each

No. C—Japanned Iron Frame, Drive Wheel and Treadle; 6 inch Iron Tilting Table; 20 inch Second Growth Ash Arms; 10½ inch Drive Wheel; Steel Shaft with 4½ inch Balance Wheel; Round Leather Belt; Height 33 inches; Base 21x15 inches; Complete with 12 Saw Blades, 1 Wrench, Sheet of Designs. $7.80

One in a Wood Box, Knocked Down; Weight 36 lbs.

HACK SAW FRAMES

★ *Diamond Edge*

BACK SAW STYLE HANDLE EXTENSION FRAME

Note—The Frame of these Saws are Positive Locking; absolutely no chance of Loosening while in use. Blade can be quickly released when desired

Extra Stiff Nickel Plated Steel Frame, 3-16x5/8 in.; **Varnished Applewood Handle** fastened with Nickel Plated Saw Screws; Saws can be Set to cut in any direction at any Angle; Depth from inside of Back to Cutting Edge 3½ inches.

Heavy, Rigid and Strong—The Floating Rivet. Makes adjustment Quick and Easy.

The Handle end of Frame engages with the Floating Rivet by means of Notches on the under side.

When the Blade is tightened up the Floating Rivet slides up the inclined Plane formed by the angular slot in the Tube. The Handle End thus has a bearing throughout its entire length against the Tube forming the back, making it extra strong and rigid and prevents Buckling.

This construction is not to be found in any other Frame on the market and will appeal to the mechanic as one of the most practical improvements made in the construction of Hack Saw Frames.

Adjustable Handle

The Handle on this Saw may be adjusted in different positions to suit conditions of ordinary overhead or work in low down or Cramped positions. Tension is controlled by a Wing Nut at front end of Frame.

Per Dozen

No. DR77—Without Blade; adjustable to take Blades 8 to 12 inches; Weight each 1½ lbs.; Weight per Dozen 18 lbs.....**$26.00**

One in a Box

Solid Handle

The Handle on this Saw is Securely Fastened to the Frame with Two Saw Screws. It is made exceptionally Strong and Rigid, has a comfortable Grip and is recommended for Heavy work. Tension is controlled by a Knurled Nut at Rear end of Frame.

Per Dozen

No. DE88—Without Blade; Adjustable to take Blades 8 to 12 inches; Weight each, 1⅔ lbs.; Weight per Dozen 16½ lbs...**$25 00**

One in a Box

★ *Diamond Edge*

EXTENSION FRAME

Extra Stiff Nickel Plated Steel Frame, 3-16x9-16 inch Back, Polished Cocobolo Handle; Saws can be Set to Cut in any Direction or at any Angle; Blade and Tension controlled by Thumb Nut; Depth from Inside of Back to Cutting Edge 2½ inches.

Per Dozen

No. DE125—Without Blade; Adjustable to Take 8 to 12 inch Blade; Weight each, 1⅓ lbs.; Weight per Dozen 13½ lbs...**$18.50**

One in a Box

★*Diamond Edge*

EXTENSION FRAME

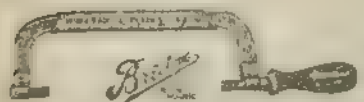
Nickel Plated and Polished Steel Frame, 5/8x3/16 inch; Polished Cocobolo Handle; Blade can be Set to Cut at any Angle; Depth from Inside of Back to Cutting Edge 2¾ inches.

When Blade is Tightened up, the Floating Rivet Slides up the inclined Plane formed by the Angular Slot in the Tube; The Handle thus has a Bearing throughout its entire length against the Tube forming the Back, making it extra Strong and Rigid.

Per Dozen

No. DE65—Without Blade; Adjustable to take 8 to 12 inch Blade; Weight per Dozen 12 lbs.....**$13 50**

One in a Box



★**BRIDGE**

EXTENSION FRAME

Nickel Plated and Polished Steel Frame 5/8x3/8 inch; Positive Lock Adjustment; Polished Ebonized Hardwood Handle; Depth from Inside of Back to Cutting Edge 2⅝ inches; Blade can be Set to Cut at any Angle, by turning Handle.

Per Dozen

No. B10—Without Blade; Adjustable for Blades 8 to 12 inches; Weight each 1 lb.; Weight per Dozen, 12 lbs.....**$16 00**

One in a Box

HACK SAW FRAMES

★**BRIDGE**

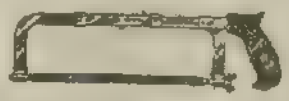
SOLID FRAME

Polished Steel Frame; 8-16x9-16 inch Back; Ebonized Hardwood Handle; Saw can be Set to cut in any Direction or at any Angle; Blade and Tension controlled by Thumb Nut; Depth from Inside of Back to Cutting Edge of Blade 2⅝ inches.

Per Dozen

No. B8—Without Blade; For 8 inch Blades only; Weight per Dozen 8 lbs.....**$10 50**

Half Dozen in a Box



STAR EXTENSION

Pistol Grip; Complete with One 10 inch Blade in Frame.

Per Dozen

No. 1011—Adjustable to take Blades from 8 to 12 inches; Blades can be Set to Cut in Four Directions by Loosening Thumb Nut and Turning Screw Stud; Nickel Plated and Polished Stiff Steel Frame 3-16x11-16 inch with Extra Strength in the Middle of the Back where there is the greatest Strain, Black Composition Pistol Grip Handle Secured to Frame by a Steel Rib extending nearly the Full Length of the Handle and Shaped so as to make the Top from the Back and Depth from Inside of Back to Cutting Edge 3⅜ inches; Weight Each, 1⅓ lbs.; Weight per Dozen 22½ lbs.....**$30.50**

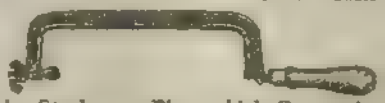
One in a Box

STAR EXTENSION

Adjustable to Take Blades 8 to 12 inches; Blade Can be Set to Cut at Any Angle; Tension and Position of Blade Controlled by Turning Handle and Threaded Nut, Nickel Plated Two Piece Frame; Size of Back 3-16x11-16 inch, with Back Sliding Through Two Steel Bands and Locked by Set Screw; Polished Cocobolo Handle; Depth from Inside of Back to Cutting Edge 2½ inches. Per Dozen

No. M10—Without Blade; Weight per Dozen 15 lbs.....**$23.00**

Half Dozen in a Box



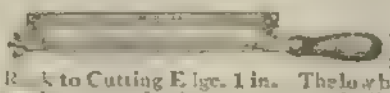
STANDARD REVERSIBLE

Japanned, Cast Iron Frame, Black Wood Handle; Blade is Held by Stationary Pins, which Cannot be Lost, the Blade Can be turned in Four Different Directions.

Per Dozen

No. 308—Without Blade; For 8 inch Blades only; Weight per Dozen 10½ lbs.....**$5 00**

Half Dozen in a Box



DISSTON

Polished Steel Frame 3-16x5/8 in. Riveted together; Black Hardwood Handle; Depth from Inside of Back to Cutting Edge, 1 in. The low back design of this frame permits of use in extremely close quarters and affords better control of the saw. Especially adapted for use by electricians, plumbers, etc. Per Dozen

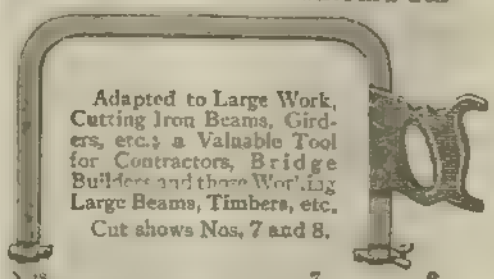
No. 200—Complete with 8 inch Blade; Weight per Dozen 12 lbs..**$8 00**

Two in a Box

Without Blade; Adjustable, for Blades 8 to 12 inches; Nickel Plated and Polished Steel Frame 5/8x1/8 inch; Positive Lock Adjustment; Polished Ebonized Hardwood Handle; Depth from Inside of Back to Cutting Edge 2¾ inches; Blade can be Set to Cut at any Angle by Loosening Thumb Screw and turning Handle. Per Dozen

No. 50—Weight per Dozen 12 lbs.....$8 50

Twelve in a Box



Adapted to Large Work, Cutting Iron Beams, Girders, etc.; a Valuable Tool for Contractors, Bridge Builders and those Working Large Beams, Timbers, etc.

Cut shows Nos. 7 and 8.

DISSTON
Without Blade

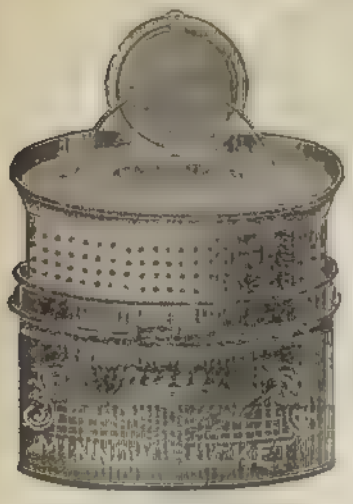
Nickel Plated Steel Frame 1x¾ inch; Solid Sockets, Beechwood Saw Handle, Varnished Edges Three Rivets, Depth of Frame 10¾ inches; Take ¾ inch Blade Shown on Page 144.

Nos.	7	8	9	10
For Blades, Length, in.	12	14	16	18
Weight each, lbs.	3⅝	3⅞	4½	5
Wt. per Doz., lbs.	43½	48½	54	60
Per Dozen	$32 00	34.00	41 30	50 00

Note—Nos. 9 and 10 are made with a Handle at each End.

Twelfth Dozen in a Box

MINNOW BUCKETS



* Mizzoo

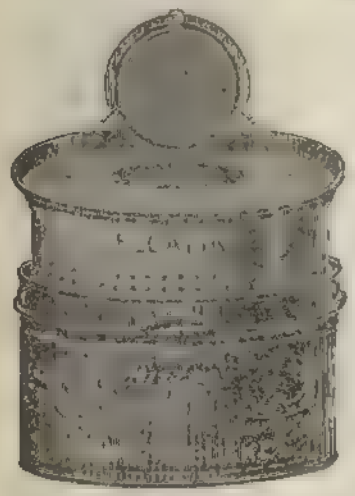
Oval

IX Tin Plate; Finished in Rich Light Green Enamel and Ornamented with Gold Bands and Fancy Designs; Top Edge Reinforced with Wire; Perforated Tin Inset with Deep Sunk Ice Pan Top; Gold Lacquered Top with Carmine Rim; Hinged, Self-Locking Perforated Cover on Inset; no Cover on Outside Bucket; Wire Bail with Black Enameled Hardwood Handle.

Non-Floating

No.	M8
Capacity, Quarts	8
Size, Inches	9¼x9¼x8¾
Weight per Dozen, Lbs	9
Per Dozen	$27 00

Loose



* Mizzoo

Oval

IX Tin Plate; Finished in Rich Light Green Enamel and Ornamented with Gold Bands and Fancy Designs; Top Edge Reinforced with Wire; Perforated Tin Inset with Deep sunk Ice Pan Top, Gold Lacquered Top with Carmine Rim; Hinged, Self-Locking Perforated Cover on Inset; no Cover on Outside Bucket; Wire Bail with Black Enameled Hardwood Handle.

Floating, with Cone Shaped Air Chamber

Nos.	MF8	MF10
Capacity, Quarts	8	10
Size, Inches	9¼x6½x8	10½x7¼x8½
Weight per Dozen, Lbs	28½	35
Per Dozen	$30.00	39.00

Loose

MINNOW AND FROG BUCKETS

★TRIUMPH MINIATURE, ROUND

Intended for those Fishermen who Wish to Carry a Limited Number of Minnows, or Where Minnows are to be Transported Short Distances and then Retained in a Float in Lake or Stream Wherever Fishing is to be Done. Can Also be Used for Live Frogs.

Medium Tin; Body Lacquered Deep Blue, Gold Lacquered Perforated, Hinged Cover with Self Locking Clasp; Wire Bail.

Per Dozen

No. T2—Capacity 2 Qts.; Size 5x4¾ in.; Wt. per Dozen 5¼ lbs. $4 30

Loose

ROACH BUCKETS

Made Especially to Carry Live Roaches, One of the Best Baits for Bass Fishing. Per Dozen

No. RB1—**Black Woven Wire Body** Size 7½x6¼ inches; Dairy Tin Bottom and Sloping Top; Wire Bail Handle Fastened to Reinforced Uprights; no Cover; Roaches Cannot Escape on Account of Sloping Top; Weight per Dozen 7½ lbs. $8.00

Loose

No. RB2—Same as No. RB1 except Frame made of **Galvanized Iron** and Body made of **Bronze Wire Cloth** 12.00

Loose

ROACH TRAPS

These are the best Traps ever Invented for Catching Roaches. They are Clean and Sanitary, and Much More Desirable for Ridding a House of these Pests than Insect Powder or Poisons. A little Cheese, Potato Onion or Banana makes an Excellent Bait and one of these Traps will Catch all the Roaches on the Place.

Per Dozen

No. M—Black Japanned Wire Cloth Top; Tin Bound Edges; Natural Finish Hardwood Bottom; Diameter of Dome Top 5 inches; Size of Base, 5½x5½ inches. Height over all, 4¼ inches; Weight per Dozen 4½ lbs. $4 50

One Dozen in a Box

MINNOW TRAPS

GEE'S SURE CATCH

Can be Used in Any Water, Whether Frozen Over or Not at any Depth and the Bait, Whether of Crackers, Bread, Meat or Other Substance Being Fully Exposed to View with the Action of the Water, Makes it Very Attractive to Minnows. Its Shape (Two Truncated Cones Joined in the Middle) and Construction is Such as to Offer Least Resistance to the Water When in Use; the Two Halves Nest Together so That with an Ordinary Pail the Trap Makes a Good Minnow Bucket.

Per Dozen

No. GMT—**Galvanized Woven Wire Body; Galvanized Steel Frame and Reinforcements;** Size 17x9x7½ inches; Weight per Dozen 23 lbs. $19 20

Half Dozen in a Crate

ORVIS PATTERN

The Ease, Rapidity and Certainty of Securing Live Bait with This Trap Has Placed it Far Ahead of the Old Method of Using a Minnow Seine. Place a Handful of Cracker Crumbs Inside the Trap, Attach a Cord to the Handle and Lower Trap Where Minnows Frequent. When Lowering into Deep Water, Fasten End of Cord to a Float so Trap Can be Readily Regained.

Per Dozen

No. G1 Heavy Flint Glass Galvanized Steel Wire Handle and Legs; Size 13x8 inches; Weight per Dozen 118 lbs. $60 00

Twelfth Dozen in a Wood Box

GETZ 'EM KANT BREAK

Can be Set in Running or Still Water; only Weighs 15 ozs. and Won't Break; no Parts to Rust or Come Apart. In a Stream the Door Goes up Stream; Attach a 3-foot Cord in Loop on End the Door is on; Crush Three or Four Crackers and Put in the Funnel End. Turn Funnel End Down. Press Trap in Water until Full. Tie Cord to any Weight that Will Hold Trap in Water. When Using Trap in Still Water, Use a Longer Cord and Fasten to a Pole. See that no Air is Left in Trap.

Per Dozen

No. G2 Made of ⅛-inch Pyralin, Reinforced at Both Ends with Galvanized Steel Bands, Riveted to the Pyralin; Galvanized Steel Door and Handle; Brass Legs; Size 12x6½ inches; Weight $54 00

One Dozen in Carton. Weight per Dozen [illegible] lbs.

MINNOW BUCKETS

★ULTRA CASTING

Oval Floating

IXX Tin Plate; Brown Enameled and with Gold Band and Fancy Name Panel in Light Blue and Gold; Top Edge Reinforced with Wire; Galvanized Woven Wire Inset with Deep Sunk Ice Pan Top, Extra Deep Cone Shaped Air Chamber which Prevents Bruising of Minnows; Gold Lacquered Top with Carmine Rim; Extra Large, Woven Wire, Self Locking Inset Cover; Solid Bottom and Rim to Hold Water and Protect Minnows when Removing from Outside Bucket to Stream or Lake; no Cover on Outside Bucket; Wire Bail with Black Enameled Hardwood Handle.

Nos.	UB10	UB12
Capacity, Qts.	10	12
Size, Inches	11¼x8x8¾	12x9x9¼
Weight per Dozen, Lbs.	39	47
Per Dozen	$48.00	$54.00

Loose

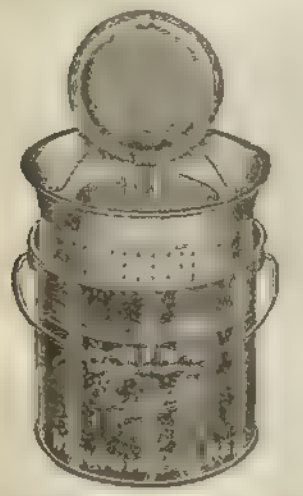
★DIAMOND

Round Floating; with Perforated Inset Cover

IXX Tin Plate; Green Enameled and with Gold Bands and Fancy Decorations; Top Edge Reinforced with Wire; Galvanized Woven Wire Inset with Deep Sunk Ice Pan Top; Cone Shaped Air Chamber which Prevents Bruising of Minnows; Gold Lacquered Top with Carmine Rim; Self Locking Inset Cover; Solid Bottom and Rim to Hold Water and protect Minnows when Removing from Outside Bucket to Stream or Lake, no Cover on Outside Bucket; Wire Bail with Black Enameled Hardwood Handle.

Nos	DF8	DF10
Capacity, Qts	8	10
Size, Inches	9x7¾	10x8¼
Weight per Dozen Lbs.	32	39
Per Dozen	$24.00	$27.00

Loose



★TRIUMPH

Round, Non Floating

Medium Weight Tin; Deep Blue Japanned with Gold Bands and Fancy Decorations; Perforated Tin Inset with Deep Sunk Ice Pan Top; Wire Bail and Hinged, Perforated, Self Locking Cover; no Cover on Outside Bucket; Wire Bail with Black Enameled Hardwood Handle.

Nos	T6	T8	T10	T12
Capacity, Qts	6	8	10	12
Size, Inches	7⅛x7¼	8¾x8¼	9¼x8½	10¼x9½
Wt. per Dozen Lbs.	21	22½	27	33
Per Dozen	$14.00	16.00	21.00	24.00

Loose

MINNOW BUCKETS

★REDSTRONG

Round

Heavy Galvanized Iron; Perfectly Rust and Waterproof; **Galvanized After being made up,** thus Filling all Seams with Metal and Amalgamating all Parts into One Solid Article; Galvanized Woven Wire Inset with Deep Sunk Ice Pan Top; Cone Shaped Air Chamber which prevents Bruising of Minnows; Wire Bail and Hinged Perforated, Self Locking Cover on Inset; Solid Bottom and Rim to Hold Water and Protect Minnows when Transferring from Bucket to Stream or Lake, no Cover on Outside Bucket; Wire Bail with Black Enameled Hardwood Handle. Made to Stand Abuse and will Give Lasting Satisfaction.

Floating

Nos.	RF8	RF10
Capacity, Qts.	8	10
Size, Inches	8¾x8	9½x8½
Wt. per Dozen, Lbs.	40½	49
Per Dozen	$36.00	$43.20

Loose

★REDSTRONG

Round

Heavy Galvanized Iron; Perfectly Rust and **Waterproof; Galvanized After being made up,** thus Filling all Seams with Metal and Amalgamating all Parts into One Solid Article; Galvanized Woven Wire Inset with Deep Sunk Ice Pan Top; Cone Shaped Air Chamber which prevents Bruising of Minnows; Wire Bail and Hinged Perforated, Self Locking Cover on Inset; Solid Bottom and Rim to Hold Water and Protect Minnows when Transferring from Bucket to Stream or Lake, no Cover on Outside Bucket; Wire Bail with Black Enameled Hardwood Handle. Made to Stand abuse and will Give Lasting Satisfaction.

Non-Floating

Nos.	R8	R10
Capacity, Qts	8	10
Size, Inches	8¾x8	9½x8½
Wt. per Dozen, Lbs.	31½	38
Per Dozen	$27.00	33.00

Loose

★REDSTRONG

Heavy Gauge Galvanized Iron; Perfectly Rust and Weather-Proof; Galvanized after being made up, thus Filling all Seams with Metal and Amalgamating all parts into One Solid Article.

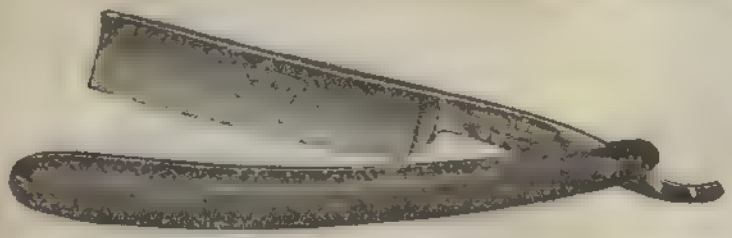
Improved Perforated Top opens only Half way allowing Ample Dip Net. Space for Minnow New Style Locking Attachment permanently locks Top by simply placing Notched Steel Band over Bail Ear. Heavy Wrought Iron Bail, Bail Ears Strongly Riveted to Body. Red Painted Band at Top and Bottom.

	Non-Floating		Floating
Nos.	SR8	SR10	FSR8
Capacity, Qts.	8	10	8
Size, Inches	9¾x8	9¾x9½	9¾x8
Weight each, Lbs.	2¾	3	3
Wt. per Dozen, Lbs.	33	36	36
Per Dozen	$18.00	20.00	27.00

Loose

RAZORS

Hand Forged from the Best English Crucible Cast Steel, Finest Hollow Ground, Best Finish, Highest Quality. Fully Warranted



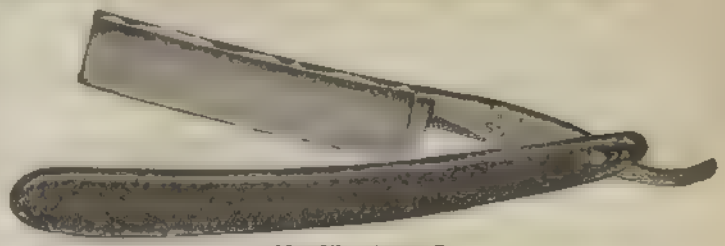
Made Exclusively for Shapleigh Hardware Co.

No. 5173— ★WADE AND BUTCHER SPECIAL

Square Point Only

Black Rubber Oval Handle; Full Concaved Ground Blade; Glazed Plain File Tang.

Width, Inches 5/8
Per Dozen $42.00
Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. 35— ★SNAP

Black Rubber Oval Handle; Concaved Ground Blade, Glazed; Plain File Tang.

Square Point

Width, Inches	1/2	5/8
Per Dozen	$16 00	16 00

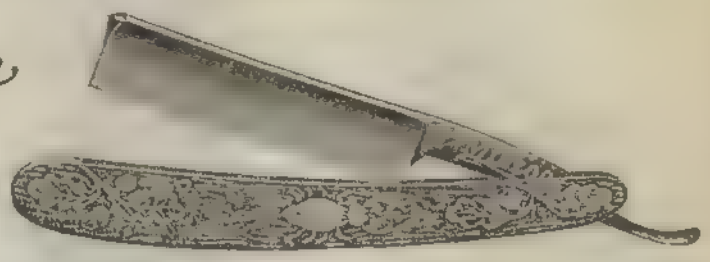
Round Point

Width, Inches 5/8
Per Dozen $16 00
Half Dozen in a Box; Weight per Dozen about 2 lbs.

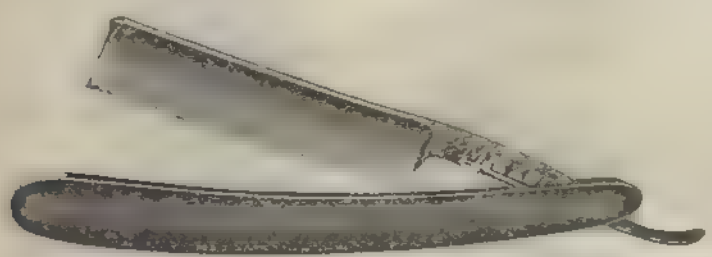
★MIZZOO CUTLERY CO.

Fine Quality English Crucible Cast Steel Blades, Best German Ground; Each Razor Honed and Sharpened Ready for Use. Guaranteed
These are the Best Cheap Guaranteed Razors on the Market; they Will Give Excellent Service

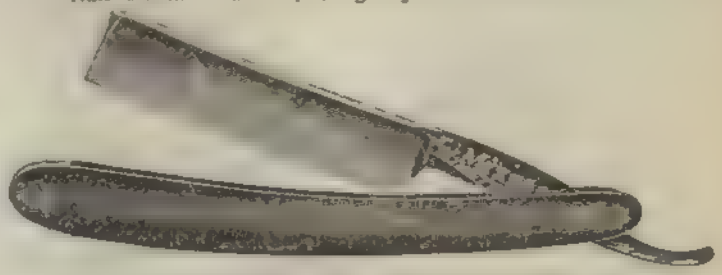
Fancy Black Rubber Oval Handle; Concaved Ground Blade, Glazed; Oval File Tang. Per Dozen
No. M3—Square Point; Width 5/8 inch $15.50
Half Dozen in a Box; Weight per Dozen about 2 lbs.



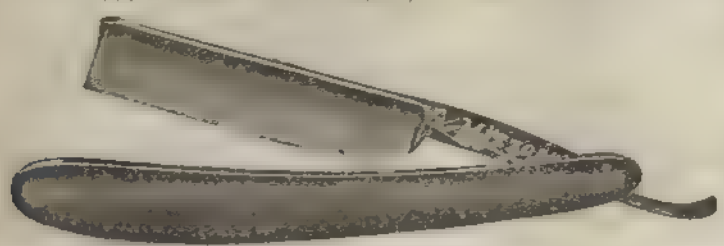
Fancy Ivory Celluloid Oval Handle; Concaved Ground Blade Glazed; Oval File Tang. Per Dozen
No. M4—Square Point; Width 5/8 inch $16.00
Half Dozen in a Box; Weight per Dozen about 2 lbs.



Plain Black Rubber Oval Handle; Concaved Ground Blade Glazed; Oval File Tang. Per Dozen
No. M2—Square Point; Width 5/8 inch $15 00
Half Dozen in a Box; Weight per Dozen about 2 lbs.



Plain Black Rubber Oval Handle; Concaved Ground Blade Glazed and Etched; Flat File Tang. Per Dozen
No. M1—Square Point; Width 5/8 inch $14 00
Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. M5

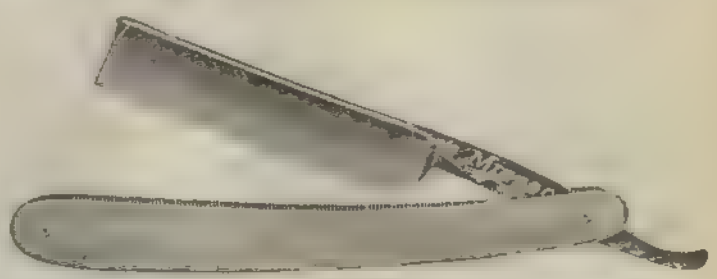
Plain Black Rubber Oval Handle; Concaved Ground Blade, Glazed; Flat File Tang.

Square Point

Width, Inches 5/8
Per Dozen $12 00

Round Point

Width, Inches 5/8
Per Dozen $12 00
Half Dozen in a Box; Weight per Dozen about 2 lbs.



No. M6

White Bone Oval Handle; Concaved Ground Blade, Glazed; Flat File Tang.

Square Point

Width, Inches 5/8
Per Dozen $12 00

Round Point

Width, Inches 5/8
Per Dozen $12.00
Half Dozen in a Box; Weight per Dozen about 2 lbs.

RAZORS

GEO. WOSTENHOLM & SON. I*XL AND PIPE

Best Quality English Crucible Razor Steel, Highly Tempered, Carefully Ground and Tested, Honed and Sharpened Ready for Use

I*XL

Black Rubber Flat Handle; Hollow Ground Blade, Full Polished; **Pearl Scale File Tang.**

Per Dozen

No. 01818—Round Point; Width ⅝ inch **$60 00**

I*XL

Black Rubber Oval Handle; Three Quarter Concaved Blade, Full Polished and Gold Etched; Plain Smooth Tang.

Per Dozen

No. 01974—Hollow Point; Width ⅝ inch **$22.00**

PIPE

Black Rubber Oval Handle; Concaved Ground Blade, Glazed; Plain Smooth Tang.

Per Dozen

No. 02363—Square Point; Width ⅝ inch..... **$22.00**

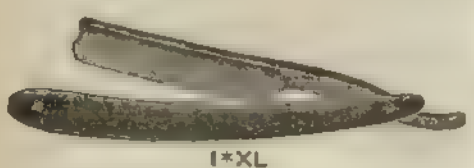
No. 02364—Square Point; Width ¾ inch..... **22.00**

PIPE

Black Rubber Flat Handle; Medium Hollow Ground Blade, Glazed and Etched; Plain Smooth Tang.

Per Dozen

No. 03548—Square Point; Width ⅝ inch. **$22.00**



I*XL

Black Rubber Oval Handle; Medium Hollow Ground Blade, Glazed and Gold Etched; Plain Smooth Tang.

Per Dozen

No. 0482—Hollow Point; Width ½ inch. **$18.00**

Weight per Dozen about 2 lbs.
All Above, Half Dozen in a Box.

I*XL

Ivory Celluloid Flat Handle; Three Quarters Concaved Ground Blade, Full Polished and Etched; Plain Smooth Tang.

Per Dozen

No. 01051—Square Point; Width ⅝ inch. **$40.00**

I*XL

Black Rubber Oval Handle; Three Quarter Concaved Blade, Full Polished and Gold Etched; Plain Flat Tang.

Per Dozen

No. 01049—Round Point; Width ⅝ inch **$36 00**

I*XL

Black Rubber Oval Handle; Full Concaved Ground Blade, Full Polished and Etched; Plain Smooth Tang.

Per Dozen

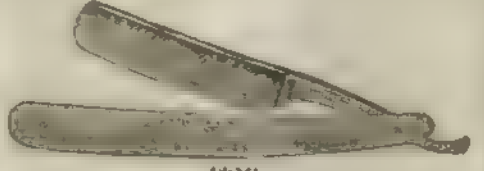
No. 5771⅛—Hollow Point; Width ⅝ inch **$22.00**

I*XL

Black Rubber Oval Handle; Medium Hollow Ground Blade, Glazed and Gold Etched; Plain Smooth Tang.

Per Dozen

No. 01442G—Hollow Point; Width ⅝ inch..... **$22 00**



I*XL

Genuine Ivory Flat Handle; Medium Hollow Ground Blade, Full Polished and Etched; Scroll File Tang.

Per Dozen

No. **01048**—Round Point; Width ⅝ inch **$80 00**

Weight per Dozen about 2 lbs.
All Above, Half Dozen in a Box.

PIPE

Black Rubber Oval Handle; Full Concaved Ground Blade, Glazed; Plain Smooth Tang.

Per Dozen

No. 01461—Square Point; Width ⅝ inch. **$40.00**

I*XL

Black Rubber Oval Handle; Hollow Ground Blade, Glazed; Plain Smooth Tang.

Per Dozen

No. 01163—Square Point; Width ⅝ inch **$26 00**

I*XL

Black Rubber Oval Handle; Medium Hollow Ground Blade, Glazed; Plain Smooth Tang.

Per Dozen

No. 01443—Hollow Point; Width ⅝ inch..... **$15 00**

PIPE

Imitation Tortoise Shell Oval Handle; Wedge Ground Blade, Full Polished and Etched; Plain Smooth Tang.

Per Dozen

No. 0821—Square Point; Width ⅝ inch. **$11 00**

JOSEPH ROGERS & SONS SHEFFIELD, ENGLAND

Best Quality English Crucible Razor Steel, Highly Tempered, Carefully Ground and Tested, Honed and Sharpened Ready for Use

Black Rubber Oval Handle; Medium Concaved Ground Blade Glazed; Plain Smooth Tang; Extra Heavy.

Per Dozen

No. R3160S—Square Point; Width ⅝ inch **$18.00**

Weight per Dozen about 2 lbs.
All Above, Half Dozen in a Box.

MODLWOOD TOYS

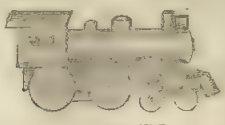
An ideal construction toy for the small child that cannot master the more complicated metal construction toys. Made from clean white wood (not painted), accurately sawed out, and arranged with grooves, holes and dowels, so that they can be readily put together and taken apart It is a toy that the children can build themselves, and take apart again, and give them plenty of study and constructive amusement. The toy is sold not assembled, but all in pieces, neatly packed in Lithographed. Cardboard Box; Complete Directions for Building in each Box.

TRAIN

Per Dozen

No. 509—Set Consisting of Enough Pieces to Build Train as Illustrated; Size of Train Complete 41 inches Long; 6½ inches High; 3¼ inches Wide; Size of Box 22x10½x3 inches; Weight per Dozen 42 lbs. **$24.00**

One in a Box



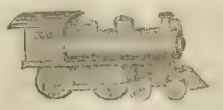
LOCOMOTIVE

Set Consists of Enough Pieces to Build a Locomotive 14 inches long, 6 inches high and 4 inches wide.

Per Dozen

No. 507—Size of Box 8¾x8½x2¼ inches; Weight per Dozen 21 lbs. **$18 00**

One in a Box



LOCOMOTIVE

Set consists of Enough Pieces to Build a Locomotive, 12½ in. Long, 5 inches high and 3¼ inches wide. Packed in a Plain Box.

Per Dozen

No. 503—Size of Box 11¼x4¾x2¼ inches, Weight per Dozen 15 lbs. **$11.50**

One in a Box.

LOCOMOTIVE

Set consists of Enough Pieces to Build a Locomotive; 9 inches Long, 5 inches high and 3 inches wide.

Per Dozen

No. 501—Size of Box 8x3½x2⅛ inches, Weight per Dozen 9½ lbs. **$6 00**

One in a Box.

MODLWOOD TOYS

LIMOUSINE

Set Consists of Enough Pieces to Build a Limousine 15 inches long, 6¾ inches high and 4 inches wide.

No. 508—Size of Box 15x4¾x4¼ inches; Weight per Dozen 27½ lbs. **$18.00**

One in a Box.

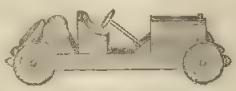
AUTO DELIVERY WAGON

Set contains Enough Pieces for an Auto Delivery Wagon 12½ inches long, 6½ inches high and 5 inches wide. Packed in a Plain Box

Per Dozen

No. 506—Size of Box 11½x4¾x2¼ inches; Weight per Dozen 15 lbs. **$11.50**

One in a Box.



AUTO RACING CAR

Set consists of Enough Pieces to Build a Racing Automobile 14½ inches Long, 4¼ inches high and 4½ inches wide.

Per Dozen

No. 504—Size of Box 14¾x3x3 inches; Weight per Dozen 15 lbs. **$11.50**

One in a Box.

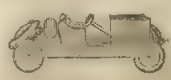
TOURING CAR

Set consists of Enough Pieces to Build a Touring Car, 13½ inches long, 6 inches high and 5 inches wide. Packed in Plain Box.

Per Dozen

No. 505—Size of Box 12½x4x2¾ inches; Weight per Dozen 15 lbs. **$11 50**

One in a Box.



AUTO RACING CAR

Set consists of Enough Pieces to Build a Racing Car, 10½ inches Long, 3 inches high, and 4 inches wide. Packed in a Plain Box.

Per Dozen

No. 502—Size of Box, 10½x2⅝x2¼ inches, Weight per Dozen 10½ lbs. **$6.00**

One in a Box.

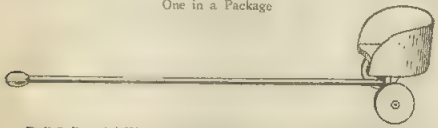
ENAMELED WOOD TOYS

Doll Chariot; with Three Wheels; Enameled Bright Red; 7½ inch Upright Standard with Spring Steel Doll Holder; 30-Inch Wood Handle Enameled Bright Green; Very Strong and Durable.

Per Dozen

No. 1033—Length Over All 39 inches; Width 7¾ inches; Weight per Dozen 16 lbs..... **$10 00**

One in a Package

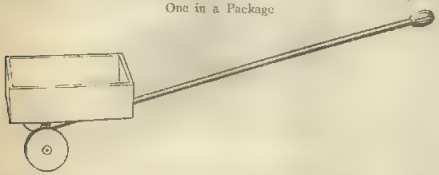


Doll Sulky; All Wood; Enameled in Bright Red and Yellow; Body 5½x5¼ inches, with Four Holes in Sides to Lace Doll in Cart; Very Strong and Durable.

Per Dozen

No. 1027—Length 34 inches; Weight per Dozen 12 lbs..... **$5 00**

One in a Package

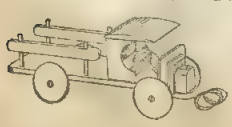


Cart; All Wood; Enameled Bright Red; Yellow Handle with Red Knob

Per Dozen

No. 1026—Body 11x5⅜ inches, Length Over All 34 inches, Weight per Dozen, 12 lbs..... **$5 00**

One in a Package



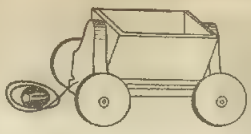
Auto Truck; All Wood; Enameled in Bright Colors, Red Body and Wheels, with Black Top; Movable Yellow Side Stakes; Braided Cotton White Leading Cord with Bright Red Knob; Very Substantial and Attractive.

Per Dozen

No. 1032—Length 17 inches; Width 7¼ inches; Height 7 inches, Weight per Dozen 32 lbs.. **$21 60**

One in a Package

ENAMELED WOOD TOYS

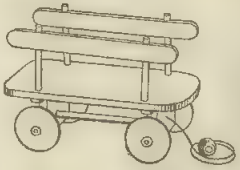


Dump Cart; All Wood; Enameled Bright Red and Yellow, Body Tips Sideways for Dumping; with Braided Cotton White Cord and Red Ball Knob; Very Attractive and Substantial.

Per Dozen

No. 1034—Length 11 inches; Width 6½ inches; Height 5½ inches; Weight per Dozen 20 lbs..... **$10 00**

One in a Package

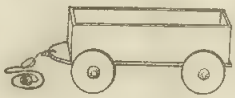


Delivery Truck; All Wood; Enameled in Bright Colors; Red Platform and Wheels; Yellow Running Gear and Movable Side Stakes; Braided Cotton White Leading Cord with Red Knob; Very Strong and Substantial.

Per Dozen

No. 1035—Length 14 inches; Width 7 inches; Height 9 inches; Weight per Dozen 25 lbs..... **$10 00**

One in a Package

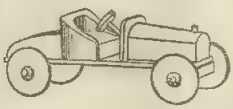


Wagon; All Wood; Enameled Bright Red; Braided Cotton White Leading Cord with Red Ball Knob.

Per Dozen

No. 1025—Length 10½ inches; Width 4½ inches; Weight per Dozen 7 lbs..... **$5 00**

One in a Package



Automobile; All Wood; Enameled in Bright Colors; Yellow Body; Red Steering Wheel; Blue Wheels, Braided Cotton White Leading Cord with Red Ball Knob.

Per Dozen

No. 1028—Length 9 inches, Width 3¾ inches; Weight per Dozen 7 lbs. **$5 00**

One in a Package

Battleship; Solid Wood Length 13½ inches; Enameled in Bright Red, White and Blue; Very Attractive; Large Red Wheels; Revolving Gun Turrets; Woven Cotton Leading String with Red Ball on End; Removable Mast, Crow's Nest, Funnels and Turrets.

Per Dozen

No. 1030—Weight per Dozen, 17 lbs... **$15 00**

One in a Package

MODLWOOD TOYS

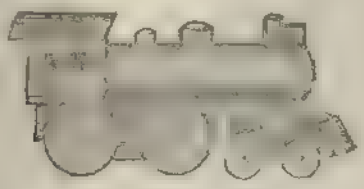
An ideal construction toy for the small child that cannot master the more complicated metal construction toys. Made from clean white wood (not painted), accurately sawed out, and arranged with grooves, holes and dowels, so that they can be readily put together and taken apart. It is a toy that the children can build themselves, and take apart again, and give them plenty of study and constructive amusement. The toy is sold not assembled, but all in pieces, neatly packed in Lithographed Cardboard Box; Complete Directions for Building in each Box.

TRAIN

Per Dozen

No. 509 Set Consisting of Enough Pieces to Build Train as Illustrated, Size of Train Complete 41 inches Long; 5½ inches High; 3¼ inches Wide; Size of Box 22x10½x3 inches; Weight per Dozen 42 lbs..... $24.00

One in a Box.



LOCOMOTIVE

Set Consists of Enough Pieces to Build a Locomotive 14 inches long, 6 inches high and 4 inches wide.

Per Dozen

No. 507 Size of Box 8 4x8 ½x2½ inches, Weight per Dozen 21 lbs..... $18.00

One in a Box.

LOCOMOTIVE

Set consists of Enough Pieces to Build a Locomotive, 12½ in. Long, 5 inches high and 3½ inches wide. Packed in a Plain Box.

Per Dozen

No. 503—Size of Box 11½x4⅜x2¼ inches; Weight per Dozen 15 lbs..... $11.50

One in a Box.

LOCOMOTIVE

Set consists of Enough Pieces to Build a Locomotive; 9 inches Long, 5 inches high and 3 inches wide.

Per Dozen

No. 501—Size of Box 8x3½x2¾ inches, Weight per Dozen 9¾ lbs..... $6.00

One in a Box.

MODLWOOD TOYS

LIMOUSINE

Set Consists of Enough Pieces to Build a Limousine 15 inches long, 6¾ inches high and 4 inches wide.

No. 508 Size of Box 15x4¼x3¼ inches; Weight per Dozen 27½ lbs..... $18.00

One in a Box.

AUTO DELIVERY WAGON

Set contains Enough Pieces for an Auto Delivery Wagon 12½ inches long, 6½ inches high and 5 inches wide. Packed in a Plain Box.

Per Dozen

No. 506—Size of Box 11½x4⅜x2¼ inches; Weight per Dozen 15 lbs..... $11.50

One in a Box.

AUTO RACING CAR

Set consists of Enough Pieces to Build a Racing Automobile 14½ inches Long, 4¼ inches high and 4½ inches wide.

Per Dozen

No. 504—Size of Box 14¾x3x3 inches; Weight per Dozen 15 lbs..$11.50

One in a Box.

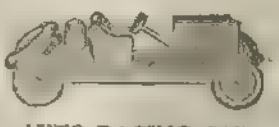
TOURING CAR

Set consists of Enough Pieces to Build a Touring Car, 13½ inches long, 6 inches high and 5 inches wide. Packed in Plain Box.

Per Dozen

No. 505—Size of Box 12½x4x2¾ inches; Weight per Dozen 15 lbs..... $11.50

One in a Box.



AUTO RACING CAR

Set consists of Enough Pieces to Build a Racing Car, 10½ inches Long, 3 inches high, and 4 inches wide. Packed in a Plain Box.

Per Dozen

No. 502—Size of Box 10½x2⅝ x2¼ inches, Weight per Dozen 10½ lbs..... $6.00

One in a Box.

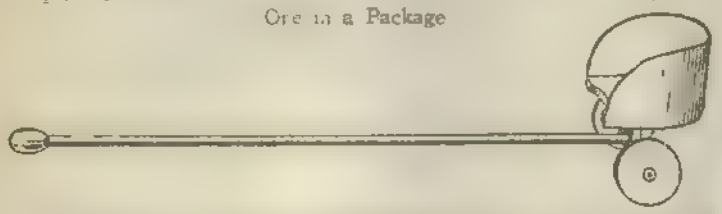
ENAMELED WOOD TOYS

Doll Chariot; with Three Wheels; Enameled Bright Red, 7½ inch Upright Standard with Spring Steel Doll Holder; 30-Inch Wood Handle Enameled Bright Green; Very Strong and Durable.

Per Dozen

No. 1033—Length Over All 30 inches; Width 7¾ inches, Weight per Dozen 16 lbs. **$10 00**

One in a Package

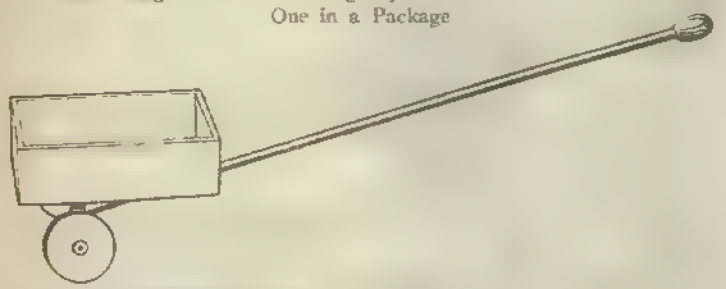


Doll Sulky; All Wood, Enameled in Bright Red and Yellow; Body 5½x5¼ inches and Four Holes to Suit to Lace Doll in Cart, Very Strong and Durable.

Per Dozen

No. 1027—Length 34 inches; Weight per Dozen 12 lbs..... . **$5 00**

One in a Package

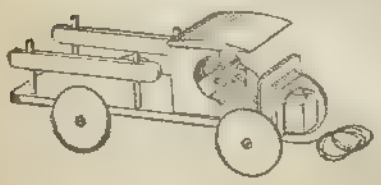


Cart, All Wood, Enameled Bright Red; Yellow Handle with Red Knob.

Per Dozen

No. 1026—Body 5x5¼ inches; Length Over All 34 inches; Weight per Dozen 12 lbs . . . **$5 00**

One in a Package



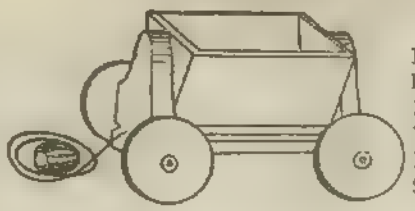
Auto Truck, All Wood, Enameled in Bright Colors, Red Body and Wheels, with Black Top, Movable Yellow Side Stakes, Braided Cotton White Leading Cord with Bright Red Knob; Very Substantial and Attractive.

Per Dozen

No. 1032—Length 17 inches; Width 7¼ inches; Height 7 inches; Weight per Dozen 32 lbs **$21 60**

One in a Package

ENAMELED WOOD TOYS

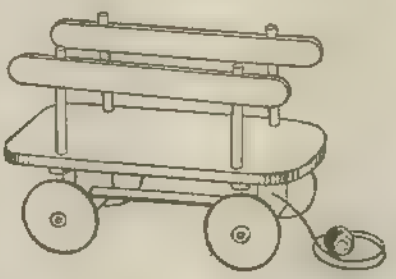


Dump Cart; All Wood; Enameled Bright Red and Yellow. Body Tips Sideways for Dumping; with Braided Cotton White Cord and Red Ball Knob; Very Attractive and Substantial.

Per Dozen

No. 1034—Length 11 inches; Width 6½ inches; Height 5½ inches; Weight per Dozen 20 lbs **$10 00**

One in a Package

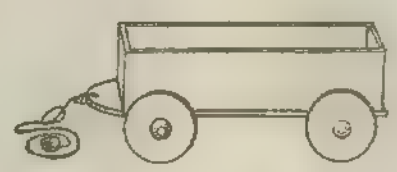


Delivery Truck; All Wood Enameled in Bright Colors Red Platform and Wheels; Yellow Running Gear and Movable Side Stakes; Braided Cotton White Leading Cord with Red Knob; Very Strong and Substantial.

Per Dozen

No. 1035—Length 14 inches; Width 7 inches, Height 9 inches, Weight per Dozen 25 lbs..... **$10.00**

One in a Package

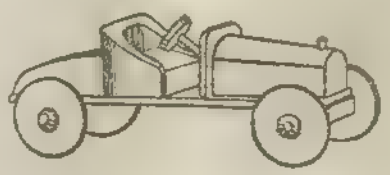


Wagon, All Wood; Enameled Bright Red, Braided Cotton White Leading Cord with Red Ball Knob.

Per Dozen

No. 1025—Length 10½ inches; Width 4½ inches; Weight per Dozen 7 lbs..... . . . . **$5 00**

One in a Package

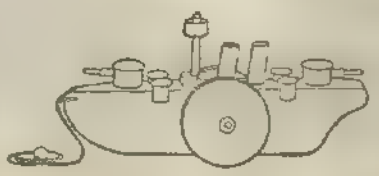


Automobile; All Wood, Enameled in Bright Colors Yellow Body; Red Steering Wheel; Blue Wheels; Braided Cotton White Leading Cord with Red Ball Knob.

Per Dozen

No. 1028—Length 9 inches; Width 3¾ inches; Weight per Dozen 7 lbs **$5 00**

One In a Package



Battleship; Solid Wood Length 13½ inches; Enameled in Black, Red, with Gilt Bands, Very Attractive Design and Wheels, Revolving Gun Turrets; Woven Cotton Leading String with Red Ball on End; Removable Mast, Crow's Nest, Funnels and Turrets.

Per Dozen

No. 1030—Weight per Dozen, 17 lbs.....**$15.00**

One in a Package

BACK OF THE PERFECT CURBING ARE KAHN CURB BARS

They provide the best and most economical method of protecting and reinforcing concrete curbing for either business or residential streets. There is no separating or splitting of the concrete at the corners, on account of the open spaces in the anchorage, which is absolutely positive.

Kahn Curb Bars are manufactured from special rolled steel sections, and are heavily galvanized after forming. They are furnished in either straight or curved bars and provide a protection of 1¾ inches. Standard lengths 8, 10 and 12 feet.

TRUSSED CONCRETE STEEL COMPANY

Department C-43 **Youngstown, Ohio**

Representatives in Principal Cities

KAHN Building Products
TRUSSED CONCRETE STEEL CO.

Monarch Tandem Roller
Made in 5, 6, 9, and 10 ton sizes

Because of Labor and Material Shortage Machinery will be the Dominant Factor in Building and Maintaining Streets and Roads

We furnish a complete line of Street Building Equipment for Cities, Counties and Towns, including Steam Road Rollers, all sizes, Portable and Stationary Crushing Plants, Oil Distributors, Heating Kettles, Street Sweepers, Road Graders, Rooter Plows and Culvert Pipe. Catalog and prices on application.

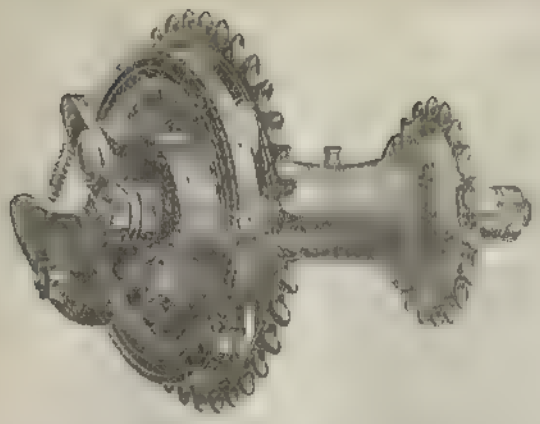
A small portable crushing plant, like the Champion, will enable cities to secure crushed stone from local deposits. Crushed stone will be hard to get in any other way during the coming year.

Write today for prices. Don't wait.
Delays this year will be dangerous.

THE GOOD ROADS MACHINERY CO.

Kennett Square, Pa.

✣MOTORCYCLE COASTER BRAKES



CORBIN DUPLEX BAND BRAKE

Construction of Great Strength; Intended for Use on Motorcycles only. The Brake is on the Band Principle Instead of being entirely Contained in the Hub, in order to Provide the Power Necessary to Stop These Heavy Machines when Under High Speed. The Band is of Great Strength and Lined with Raybestos. A strong and Quick Acting Spring Throws the Brake Band out of Contact Upon Pressure Being Removed. The Arm Connecting Band is provided with Two Projections, Forming a Nut Lock and prevents its Jarring Loose. A Bracket Attached to the Lower Side of the Brake Arm Serves to Keep the Brake Band from Dragging on the Drum or Sagging when Expanded, and thus Prevents Loss of Power or Overheating. Left Hand or Motor Drive Sprockets are not Included in Price of Brake.

	Each
✣ **Model No. 19A -Belt Drive**	**$13 00**
Length Over All Outside of Cones, Inch	7¾
Chain Line, Inches	1⅛ to 1½
Spoke Holes	36 and 40
✣ **Model No. 20—Chain or Belt Drive**	**$13 00**
Length Over All Outside of Cones, Inches	7¾
Chain Line, Inches (Both Sides)	2⅛
Spoke Holes	36 and 40
✣ **Model No. 21—Chain or Belt Drive**	**$13 00**
Length Over All Outside of Cones, Inches	8
Chain Line, Inches (Both Sides)	2⅛
Spoke Holes	36 and 40
✣ **Model No. 23—Chain or Belt Drive**	**$13 00**
Length Over All Outside of Cones, Inches	7½
Chain Line, Inches	
Spoke Holes	36 and 40
✣ **Model No. 18—Chain Drive**	**$13 00**
Length Over All Outside of Cones, Inches	
Chain Line, Inches (Both Sides)	2⅛
Spoke Holes	36 and 40
✣ **Model No. 18A—Belt Drive**	**$13 00**
Length Over All Outside of Cones, Inches	6⅝
Chain Line, Inches	1⅛ to ¾
Spoke Hole	36 and 40
✣ **Model No. 19 Chain Drive**	**$13 00**
Length Over All Outside of Cones, Inches	7
Chain Line, Inches (Both Sides)	
Spoke Holes	36 and 40

✣LIST OF SPROCKETS

FOR CORBIN DUPLEX MOTORCYCLE BRAKES

SPROCKETS, MOTOR DRIVE SIDE, ⅛ INCH THICK

	Each
✣ **11 to 17 Tooth, Inclusive,** 1 inch Pitch	**$2 10**
✣ **18 and 19** Tooth, Inclusive, 1 inch Pitch	**2 80**
✣ **21 and 23** Tooth, Inclusive, 1 inch Pitch	**3.50**
✣ **24 and 26** Tooth, Inclusive, 1 inch Pitch	**4 20**
✣ 28 and 30 Tooth, 1 inch Pitch	**4 90**
✣ 23 and 25 Tooth, ⅞ inch Pitch	**2 10**
✣ 27 and 29 Tooth, ⅞ inch Pitch	**2 50**
✣ 31 Tooth, ⅞ inch Pitch	**2 80**
✣ **33** Tooth, ⅞ inch Pitch	**3 50**
✣ 35 Tooth, ⅞ inch Pitch	**3 50**
✣ 39 Tooth, ⅞ inch Pitch	**4 20**
✣ 43 Tooth, ⅞ inch Pitch	**4 90**

SPROCKETS, MOTOR DRIVE SIDE, ¼ INCH THICK

	Each
✣ **29** Tooth, ¾ inch Pitch	**$3.20**
✣ 33 Tooth, ¾ inch Pitch	**4 20**

SPROCKETS, PEDAL SIDE, ¼ INCH THICK

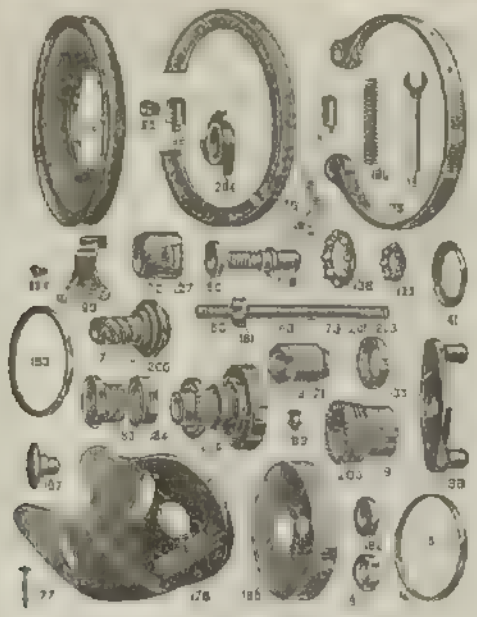
	Each
✣ **10 to 12** Tooth, Inclusive, 1 inch Pitch	**$0 45**
✣ **14** Tooth, 1 inch Pitch	**.70**
✣ **16 and 17** Tooth, Inclusive, ⅝ inch Pitch	**.45**
✣ **20** Tooth ⅝ inch Pitch	**.70**

In Ordering Sprockets Always Specify Model Number of Brake They are to Fit.

In Ordering Parts Always Specify Number of Part and Model Number of Brake and Make of Machine.

Items Marked ✣ Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory, New Britain, Conn.

✣PARTS FOR CORBIN DUPLEX MOTORCYCLE BAND BRAKE



✣ LIST OF PARTS FOR MODELS NOS. 18, 18-A, 19, 19-A, 20 AND 21

No.		Each
117	Driver for Models 18 and 18-A	$1 80
127	Transfer Sleeve for Models 18 and 18-A	.45
135	Sprocket Lock Nut for Models 18 and 18-A, 19 and 19-A, 20 and 21	.70
138	Brake Band Lining Rivets for Models 18 and 18-A, 19 and 19-A, 20 and 21	.40
139	Small Brake Band Lining Rivets, for Models 18 and 18-A, 19 and 19-A, 20 and 21	.30
141	Axle Cap for Models 18, 18-A, 19 and 19-A, 20 and 21	.30
148	Axle for Models 18 and 18-A	.60
149	Adjusting Cone for Models 18 and 18-A	.70
151	Driving Sprocket Retaining Cap for Ball Drive Only	.60
153	Brake Drum Lock Nut for Models 18 and 18-A, 19 and 19-A, 20 and 21	.70
160	Axle Nut for Models 18, and 18-A, 19 and 19-A, 20 and 21	.15
161	Axle Washer for Models 18 and 18-A, 19 and 19-A, 20 and 21	.10
166	Hub Shell for Models 18 and 18-A	4 90
169	Hub Shell for Models 19 and 19-A	4 90
170	Driver for Models 19 and 19-A	1 80
171	Adjusting Cone for Models 19 and 19-A, 20 and 21	.60
172	Transfer Sleeve for Models 19 and 19-A	.45
173	Axle for Models 19 and 19-A	.60
174	Brake Drum for Models 18 and 18-A, 19 and 19-A, 20 and 21	2.50
175	Brake Band for Models 18 and 18-A, 19 and 19-A, 20 and 21	2 10
176	Brake Band Lining for Models 18 and 18-A, 19 and 19-A, 20 and 21	.60
177	Brake Band Lining Rivets for Models 18 and 18-A, 19 and 19-A, 20 and 21	.10
178	Brake Axle for Models 18 and 18-A, 19 and 19-A, 20 and 21	1.80
179	Brake Axle for Small Ball Drive Models 18 and 18-A, 19 and 19-A, 20 and 21	.40
180	Brake Adjusting Small Ball Drive Washer for Models 18 and 18-A, 19 and 19-A, 20 and 21	.10
181	Brake Adjusting Screw Nut for Models 18 and 18-A, 19 and 19-A, 20 and 21	50 10
182	Brake Adjusting Screw Nut Washer for Models 18 and 18-A, 19 and 19-A, 20 and 21	.10
183	Brake Adjusting Screw for Models 18 and 18-A, 19 and 19-A, 20 and 21	.30
184	Brake Adjusting Lock Nut for Models 18 and 18-A, 19 and 19-A, 20 and 21	.25
185	Brake Ball Drive Cover for Models 18 and 18-A, 19 and 19-A, 20 and 21	.40
186	Brake Lever for Models 18, 18-A, 19, 19-A, 20 and 21	70
186A	Brake Lever and Arm Assembly	1 10
187	Brake Lever Adjusting Screw for Models 18 and 18-A, 19 and 19-A, 20 and 21	.10
188	Oil Hole Cover for Models 18 and 18-A, 19 and 19-A, 20 and 21	.15
189	Brake Release Spring Guide for Models 18, 18-A, 19, 19-A, 20, 21	.15
190	Brake Release Spring, for Models 18 and 18-A, 19 and 19-A, 20 and 21	.20
192	Brake Adjusting Screw Cotter Pin for Models 18 and 18-A, 19 and 19-A, 20 and 21	10
193	Brake Band Guide	30
194	Brake Band Lining Screw	10
195	Brake Release Spring Guide Stud Screw	.15
196	Brake Release Spring Guide Stud	15
199	Hub Shell for Model 20	4 90
200	Driver for Models 20 and 21	1 80
201	Axle for Model 20	70
202	Hub Shell for Model 21	4 90
203	Axle for Model 21	70
204	Transfer Sleeve for Models 20 and 21	45
205	Driving Clutch for Models 20 and 21	1 10
206	Braking Clutch for Models 20 and 21, 18 and 18-A, 19 and 19-A	1 40
207	Band Connective Arm (Including Bolt and Nut)	15
208	Hub Shell for Model 21	4 90
209	Wrench	.40

In Ordering Parts Always Specify Number of Part and Model Number of Brake and make of Machine.

Items Marked ✣ not Carried in Stock; Can only be Furnished by Shipping Direct from Factory, New Britain, Conn.

ORDERING GOODS BY MAIL MEANS A GREAT DEAL TO YOU BECAUSE IT INCREASES YOUR VOLUME AND ENABLES YOU TO GIVE BETTER SERVICE TO YOUR CUSTOMERS WHEN YOU INCREASE THE VOLUME OF SALES YOU ARE INCREASING THE NET PROFIT OF YOUR BUSINESS. BETTER SERVICE ATTRACTS NEW TRADE AND HOLDS THE OLD CUSTOMERS.

BICYCLE LIGHTING OUTFITS

OLD SOL

Cold Rolled Steel Battery Case 7 5½x3 inches; Black Gloss Baked Enamel Finish; Complete with Clamps and Strap for Fastening to Bicycle Frame; Drawn Brass Head Light Highly Nickel Plated and Polished, Nickel Plated and Polished Reflector with Special Glass Lens; Diameter of Lens 4¼ inches; Special Tungsten Bulb about Four Candle Power; Two Conductor Wires with Plain Battery Connectors at One End and Special Ediswan Connecting Socket Switch at Other End for Turning Light on or off. This Type of Plug is Held Firmly Together by Means of Spring Which Positively Prevents Them from Working Loose.

Per Dozen

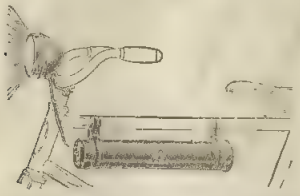
No. 53—Without Batteries; Weight Each 2 lbs.; Weight per Dozen 26 lbs. $54 00

Twelfth Dozen in a Carton

Per Dozen

No. 53B—Extra Bulbs for No. 53 Bicycle Lamps..... $6 00

Loose



DELTA TWO CELL

This Light is of a Graceful Size and Shape. Contains a Special Polished Reflector, Designed to Throw a Powerful Searchlight. Contains a Special Delta Bulb, Carefully Tested Before Being Shipped

It Has a Special Headlight Clamp Designed to Hold the Light Steady An Ordinary Wire Connection Eliminates the Troublesome Ediswan Screw Connection, a Special Switch Has Been Placed on Battery Case to Eliminate All Mechanism on the Lamp Proper. Case Holds Two Batteries.

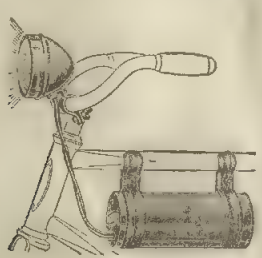
Per Dozen

No. 280—Lens about 3 inches in Diameter, Extra Heavy; Length of Case 14½ inches; Weight per Doz n 28 lbs. $36 00

One in a Box

No. 280B—Extra Bulbs for Bicycle Lamps No. 280..... 6.00

Loose



DELTA ONE CELL

Same as No. 280 Except Has a One-Cell Battery Case.

Per Dozen

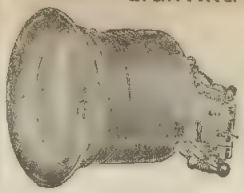
No. 270—3-inch Lens, Extra Heavy; Weight per Dozen 21 lbs....$30 00

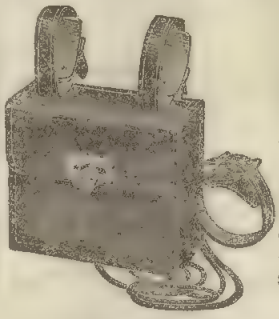
One in a Box

No. 270B—Extra Bulbs for Bicycle Lamp No. 270..... 4 80

Loose

LIGHTING OUTFITS





BICYCLE OR MOTORCYCLE LAMP

Suitable for the Rider who Desires a Bicycle or Motorcycle Lamp of High Candle Power, Mechanically Perfect and Thoroughly Well Made; the Well Proportioned Body Gives a Very Pleasing and Symmetrical Appearance Equipped with a Russet Leather Battery Holder and Connecting Wire with Plug but Without Battery.

Steel Bracket; Diameter of Case 6 inches; Depth 2 inches; 3¼ inch Finely Ground Convex Lens; Provided with Patent Screw to Secure Permanent Light.

Per 100

No. 70—3½ Volt Lamp; Takes No. 70B Battery and No. 1193 Bulb; Weight per Hundred 96 lbs.....$396 00

One in a Box

COMBINATION HAND AND BICYCLE LAMPS

Designed for Use as a Hand Lamp or a Bicycle Lamp; Each Lamp Comes Equipped with a Hand Bracket and an Attachment to be Fastened to Bracket of the Bicycle or Motorcycle; Produces a Powerful Light and Eliminates all the Troubles of an Oil or Carbide Lamp; Mechanically Perfect and Thoroughly Well Made, Producing a Striking and Pleasing Appearance.

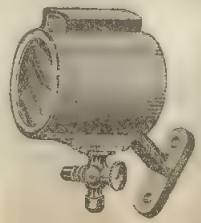
Stamped Steel Case, Black Japanned Nickel Plated Trimmings; Provided with Patent Screw to Secure Permanent Light. Extra Large Convex Ground Lens.

Per 100

No. 60—Size of Case 4¼x2½x1 inch; 2½ inch Lens; 3½ Volt Lamp; Takes No. 000B Battery and No. 1190 Bulb; Weight per 100, 58½ lbs.....$192 00

One in a Box

MOTORCYCLE TAIL LAMPS



FAIRY GAS

Made of One Piece Aluminum; Strongly Constructed; No Parts to Become Loose; Alco Burner; White Light Illuminates State License and the Red Light Danger Signal; Brass Pet Cock Regulates Gas Flow; Tip Can Easily be Inserted by Unscrewing the Plate at the Bottom of the Lamp, no Wrench Being Required to Loosen Tip.

Each

Fairy—Has Two 1½ inch Glass Lenses, One White, and One Red: Height 2½ inches; Weight 6 ozs. $2 00

One in a Box

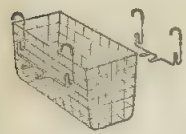
PARCEL AND LUGGAGE CARRIERS

COMBINATION BASKET AND PARCEL

This Carrier is Designed to Carry either Half Bushel Market Basket or Packages; Frame, Pressed Steel, Japanned, Covered with 1 inch Galvanized Poultry Netting; Has Hooks for Extending over Handle and Brace to Fit over Bicycle Head; Length Over All 20 inches; Width 11½ inches; Depth 5 inches.

Per Dozen

No. 5—Weight per Dozen 42 lbs... $32 00
Loose.



PERFECTION

Woven Wire; Crimped; Galvanized After Weaving; very Rigid and Durable.

Per Dozen

No. 1P—Lunch Box; Length 9 inches; Width 5½ inches; Depth 5 inches; Weight per Dozen 7½ lbs..... $7 00

No. 2P—School Book; Length 12 inches; Width 6 inches; Depth 6¾ inches; Weight per Dozen 10½ lbs..... 12 00

No. 3P—Parcel; Length 15 inches; Width 7½ inches; Depth 7½ inches; Weight per Dozen 12 lbs... 14.00
Loose.

ANDROCK

Made of Woven Wire; 1 inch Mesh, Galvanized after Weaving; very Strong and Durable.

Small Size

Per Dozen

No. 7—Length 13 inches; Width 8 inches; Depth 4¾ inches; Lower Brace adjustable to any length of Head, Complete with Straps; Weight per Dozen 15 lbs..... $13 00

Regular Size

Per Dozen

No. 8—Length 15 inches; Width 10 inches, Depth 5 inches; Lower Brace Adjustable to any Length of Head; Complete with Straps; Weight per Dozen 15 lbs..... $13 50

Large Size

Per Dozen

No. 9—Length 18 inches; Width 13 inches; Depth 6 inches; Lower Brace adjustable to any length Head; Complete with Straps; Weight per Dozen 15 lbs..... $18.00
Loose

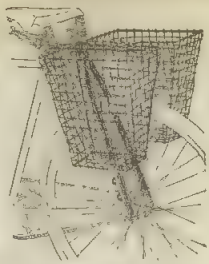
SIMPLEX LUGGAGE CARRIER

Made of ⅛x½ inch Machine Steel throughout; Three ¾ inch Round Steel Cross Bars turned to a Shoulder of 3-16 inch on each end and Riveted through the Frame; This Insures such Rigidness as to make the Attachment strong enough for your weight and also eliminates all Rattle, Side Play and Jolts.

Per Dozen

No. LC—Enameled Black; Length 13½ inches; Width 6¾ inches; Weight per Dozen 20 lbs. $12 00
Loose

PARCEL AND LUGGAGE CARRIERS



MUSSELMANN PARCEL CARRIER LESS SADDLE

Consists of Two Baskets and Attachments; made of Woven Wire Galvanized after Weaving; very Strong and Durable, will Fit any Bicycle.

Per Set

†No. MPC -Size of Baskets at Top 12x8 inches; Size at Bottom 7¼x5¾ ins., Depth 13 inches; Capacity 2½ Pecks, Weight per Dozen 55 lbs.. $8 00
Loose.

CLIMAX LUGGAGE CARRIER

This Carrier is made with Angle Sides, flat cross bars and flat center bar lengthwise, all welded together, thus affording the most rigid construction possible; Has round Corners; Can be used as a Tandem Seat.

Per Dozen

No. CC -Enameled Black; Length 30 inches, Width 6¾ inches, Weight Per Dozen 23 lbs. $10 00
Loose

LUGGAGE CARRIERS

Electro Welded, Making Top Practically one Piece of Metal. Made of Steel with No. 9 round Wire Ribs.

Per Dozen

No. 24—Size 8½x21 inches; Weight per Dozen 30 lbs..... $7.00
Loose

BASKET CARRIER AND STAND

Made of Soft Steel, Black Enameled; Basket 18x12x4 inches; Takes a Regular Size Market Basket; The Stand is Made of Channel Iron with Stamp Clips to Engage the Rear Axle and the Frame Will Carry a Weight of 75 lbs.

Per Dozen

No. 44—Weight per Dozen 96 lbs... $33 50
Loose.

DONT LOSE SALES BECAUSE YOUR STOCK IS DEPLETED—IT IS PROFIT LOST THAT CANNOT BE REGAINED.

KEEP YOUR ASSORTMENT COMPLETE.

SEND US YOUR ORDERS BY MAIL—BIG AND SMALL—THEY GET THE SAME CAREFUL ATTENTION, SPEEDY ACTION AND LOWEST PRICES.

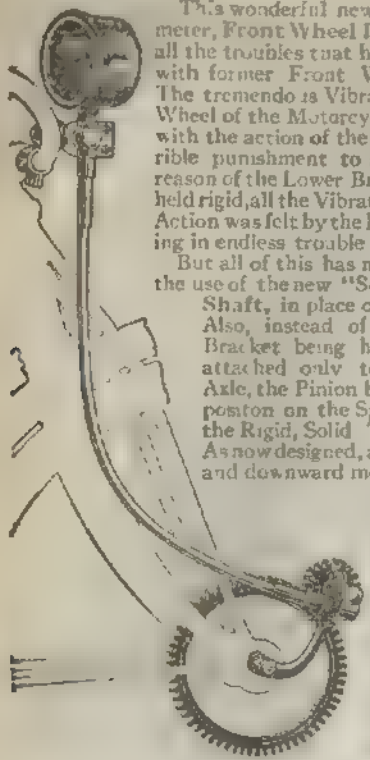
Items Marked † Not Carried In Stock; Can Only be Furnished by Shipping Direct From Factory, Chicago, Ill.

MOTORCYCLE SPEEDOMETERS

STEWART

When ordering Motorcycle Speedometers; give make, model and year of motorcycle, also diameter of tire.

LID TUBE FRONT WHEEL DRIVE, MODEL 101



This wonderful new Motorcycle Speedometer, Front Wheel Drive, does away with all the troubles that have been experienced with former Front Wheel Drive Models. The tremendous Vibration that the Front Wheel of the Motorcycle receives, together with the action of the Spring Fork was terrible punishment to a Flexible Shaft. By reason of the Lower Bracket formerly being held rigid, all the Vibration Shock and Spring Action was felt by the Flexible Shaft, resulting in endless trouble and breakage.

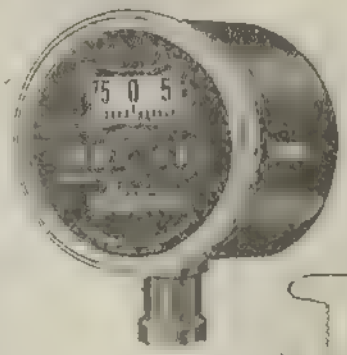
But all of this has now been obviated by the use of the new **"Solid Tube" Driving Shaft,** in place of the Flexible Shaft. Also, instead of the Lower Bearing Bracket being held Rigid, it is now attached only to the Front Wheel Axle, the Pinion being suspended in its position on the Sprocket by means of the Rigid, Solid Tube Driving Shaft. As now designed, all of the "Whipping" and downward movement on the Fork is taken up by the Bracket working free on the Axle. Any downward movement of the Fork causes the Solid Tube to push the Pinion down slightly on the Sprocket. This virtually makes a free connection of all of the Vibration and Springiness that any Motorcycle will ever experience have absolutely no effect upon this new Solid "Solid Tube" Driving Shaft equipment.

Each

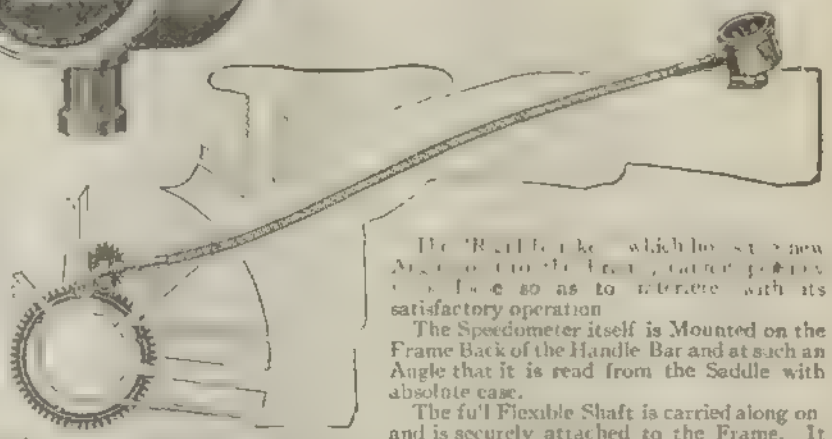
Model 101—Front Wheel Drive with 2½ inch Dial..... $14 00
One in a Box; Weight about 12 lbs.

REAR WHEEL DRIVE, MODE L101A

The most ruggedly built and equipped Motorcycle Speedometer made. Furthermore, it is more firmly attached than any other Motorcycle Speedometer in existence. It is absolutely unaffected by Vibration or Road Shocks.



Fastened to the Rear Wheel Hub is a big, Solid Case Sprocket, as strong as any part of the Machine. The Pinion being of Fiber, eliminates all Gear Grinding, as well as all the other noises which makes the ordinary Speedometer Drive so objectionable. The new Angle Joint, between the Pinion and the Flexible Shaft is a Stewart special design and is an entirely new Departure in this construction.



The Rear Bracket, which holds the new Angle Joint to the Frame, carries perfect [illegible] so as to interfere with its satisfactory operation.

The Speedometer itself is Mounted on the Frame Back of the Handle Bar and at such an Angle that it is read from the Saddle with absolute ease.

The full Flexible Shaft is carried along on and is securely attached to the Frame. It cannot work loose and get in the Riders' way. It is never subjected to any Whipping or Twisting Strains. It is always in the best possible position for correct operation.

The illustration shows one method of attaching it to the Frame. Because of the difference in the Designs of Motorcycles, a special Bracket for each make of Motorcycle is made.

Each

Model 101A—Rear Wheel Drive with 2½ inch Dial..... ..... $14 00
One in a Box; Weight 12 lbs.

BICYCLE CYCLOMETERS

VEEDER

Veeder Cyclometers are as Accurately Made as Watches, but Contain no Springs to Cause Trouble. They are Dust and Water Proof and Cannot Skip; Neither Can they Register too much. The Cyphers are Clear and Thick; When in Use the Record can be Read Easily from the Saddle; Every One is Thoroughly Tested at the Factory.

REGULAR — Each

No. VR—Registers Mileage up to 10,000, then Automatically Commences Again; Full Nickel Plated; Can be Attached to Any Bicycle; Weight 2 ozs. $1 30

TRIP — Each

No. VT—Registers Trip Mileage and Total Mileage to 10,000, then Automatically Commences Again; Full Nickel Plated; can be Attached to Any Bicycle; Weight 2 ozs. $3 50

One in a Box, Twelve in a Carton
Dial Indicates Tenths of Miles, Registers to 100 Miles or Tenths of Miles

HAND TALLY COUNTERS

VEEDER

Can be Quickly Set Back to Zero by One Turn of the Knob; The Case is Small in Size and has Rounded Corners so as Not to Irritate the Hand of the User, Nor to Wear the Pocket When Carrying it. Can be held in either Hand when being Used.

Each

✣**No. V—1x2 in., Figures ⅜ inch high, Counts up to four figures; Weight about 2 ozs. $11.50**
One in a Box

CYCLOMETER SPOKE PINS

Each

No. VCS—Spoke Pins or Strikers, Milled Steel, Bright; Complete with Set Screw and Brass Spoke Roller.. $0.36
Loose

MOTORCYCLE CYCLOMETERS

VEEDER

Veeder Cyclometers are as Accurately made as Watches, but contain no Springs to cause trouble; They are Dust and Water Proof and Cannot Skip, Neither can they register too much. The Cyphers are Clear and Thick, When in use the Record can be read Easily from the Saddle. Every one is thoroughly tested at the Factory at Hartford, Conn., before leaving. Will Register up to 10,000 Miles, then Automatically Commence Again. Will Indicate Tenths of Miles.

Made Larger and Stronger than the Regular Bicycle Cyclometer, to withstand the Harder Usage to which a Cyclometer is subjected to on the Motorcycle.

[illegible] complete with Adjustable Steel Bracket, Nickel Plated which can be Adjusted to fit any American or Foreign Motorcycle; also, Extra Heavy Striker for Motorcycles.

Each

No. VM—For 28 inch Wheels, the [illegible] registers the Total Mileage to 10,000, the Second [illegible] registers the Trip Mileage up to [illegible] of 10,000 miles it Automatically commences [illegible], Full Nickel Plated [illegible] Attached to any Motorcycle; Weight [illegible] $4 50
One in a Box; Twelve in a Carton

✣**NOTE—Special Model for Harley Davidson Machines, also for 24 and 26 inch Wheels can be furnished by Shipping Direct from Factory, Hartford, Conn., at Same Price as the Regular No. VM Motorcycle Cyclometer.**

CYCLOMETER BRACKETS

Each

No. VCB—Stamped Steel, Bright; Complete with Bolt and Nut. ... $0.36
Loose

Items Marked ✣ Not Carried in Stock; Can only be Furnished by Shipping Direct from Factory, New Haven, Conn.

REAR VIEW MIRRORS

Convex Reducing Reflectors, Focus on a Wide Range of Vision; Clamps on Handle Ba[r] stamped Metal Separable Frame Integral with Corrugated Dome Back; Swivel Adjustment in Back; Adjustable to all Angles; All Black Finish.

Each

No. 6101B—Diameter 3 inches; Length of Rod 7½ inches; Weight 12 oz..... ... $1 40

One in a Box

BATTERY CONNECTION AND TERMINAL ASSORTMENTS

CONTENTS

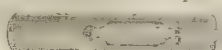
20 No. 10 Standard Connectors. 20 No. 2 Standard Copper Terminals.
20 No. 11 Perfection Connectors. 15 No. 3 Standard Copper Terminals.
20 No. 0 Standard Copper Terminals. 15 No. 5 Perfection Spring Terminals.
20 No. 1 Standard Copper Terminals. 20 No. 7 Perfection Spring Terminals.
10 No. 8 Clip Spring Terminals.

Each

No. CT160—Contains 160 Best Selling Sizes; Put up in a Partitioned Slide Cover Wood Box; Weight per Assortment 2 lbs.... $3.00

GASOLINE HYDROMETERS

For Testing Gasoline to Obtain Specific Gravity

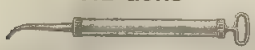


Each

No. 2H—Hydrometer Only; Equipped with Glass Test Jar; Wrapped in Soft Flannel Bag Pouch and Encased in Wood Box to Prevent Breakage; Size 1x1½ inches; Weight 2 ozs. $0 80

Twelve in a Box

OIL GUNS



Large Size; Made of Steel

Each

No. OG—1¼x8 inch Seamless Brass Cylinder, Nickel Plated, Heavy Plunger Rod; Double Cups, Knurled Cover; Used for Squirting Oil into Cylinders and Bearings that Cannot be Reached with an Oil Can; Weight 8 ozs. $0 80

Loose

COTTON WASTE

Long Thread—White

This is an Extra Fine High Grade, Long Thread White Waste; Soft Stock Free from Grit, Especially Selected for Automobile Use; Has Unusually Good Absorbing Quality and Should not be Confused with Inferior Grades Usually Offered to the Trade as a Long Thread White Waste.

IN BAGS

Per Dozen Bags

No. 1CW—In Bags, for Individual Use $5 00

Weight per Dozen Bags 10½ lbs.

IN BALES

Per Pound

No. 50CW—In Bales of 50 lbs... $0 42

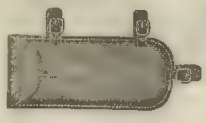
No. 100CW—In Bales of from 100 to 125 lbs. .44

BICYCLE TOOL BAGS

Each

No. 12—Gents; Black, Brown or Tan; Pebble Leather; Complete with Straps; Size 7½x2¼ x1¾ inches; Weight 4 ozs.... $0 60

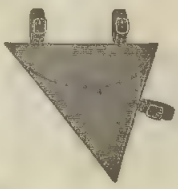
Loose



Each

No. 8 Gents; Black, Brown or Tan; Pebble Leather; Complete with Straps; Size 8x3¾x1¾ inches; Weight 3 ozs..... $0 40

Loose



Each

No. 6 Gents; Black, Brown or Tan; Pebble Leather; Complete with Straps; Size 8x7¼x1¾ inches; Weight 4 ozs. $0.90

Loose

Each

No. 3—Ladies; Black, Brown or Tan; Pebble Leather; Complete with Straps. Length 8¼ inches; Weight 3 ozs..... $0.90

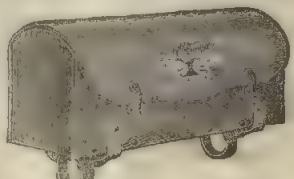
Loose

Each

No. 15—Round; English Russet Leather; Stamped Steel Ends, Black Enameled Firmly Riveted to Leather; Complete with Straps; Length 7 inches; Weight 5 ozs. $0 90

Loose

MOTORCYCLE TOOL BOXES



Each

No. B—Select Oak; Tanned Leather; Length 9 inches; Width 3¼ inches; Height 3¾ inches; Frame is Cold Rolled Steel; Highly Finished; This Box will Carry Tools and Stand the Hard Vibration of the Motorcycle and Hold Its Original Shape; We Supply Clamps to Fit Any Size Tubing; Weight 1 lb. $2 50

Loose

BICYCLE SADDLES

*RUGBY

"ORIGINATED BY US"

Our Rugby Saddles are Unequalled. They Have Proven Their Durability and Their Popularity to the Satisfaction of Both Dealers and Riders; They Combine the Best of Material Obtainable; Russet Leather Cover; Hair Felt Padding; Wooden Base; Best of Springs of the Various Styles and Clamps.

MOTOR BIKE

Stamped Steel Frame and Trusses; Cushion Springs combined with the Universal Spring; all Finished in Black Enamel; has Universal Clamp; Waterproof Elkgrain Leather Top; well Padded with Hair Felt; an Extra Heavy Saddle; Strong and Durable; Length of Seat 11 inches; Length over all 12 inches; Width 9 inches.

Each

No. 20R—Weight 4½ lbs. $5.50

Loose

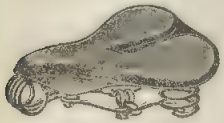
RUGBY

Stamped Steel Frame and Trusses; Cushion Springs Combined with the Universal Cone Spring; all Finished in Black Enamel; Ox Blood Leather Top; the Universal Clamp on the Saddle prevents its Turning or Twisting; Suitable for Heavy Riders and Hard Usage or Rough Roads; Length of Seat 12 inches. Width 9¼ inches

Each

No. 15E—Weight 4¼ lbs. $5.00

Loose



GENTS

Waterproof Elkgrain Leather Covered; Soft Padding; Universal Springs, Nickel Plated; Length 10¼ inches; Length over all 10¾ inches; Width 8 inches.

Each

No. 11RC—Weight 2¾ lbs $2.00

Loose

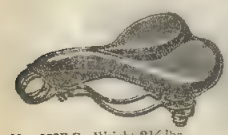
SPECIAL

Waterproof Elkgrain Leather Covered; Hair Felt Padded; High Back Wood Base; Cushion Comfort Springs, Nickel Plated; Length of Seat 10 inches, Length over all 11 inches; Width 7¾ inches.

Each

No. 62R Weight 3½ lbs.. ..... $3 30

Loose



GENTS

Waterproof Elkgrain Leather Covered; Hair Felt Padded; High Back Wood Base; Universal Springs, Black Enameled; Length of Seat 10¼ inches; Length Over All 10¾ inches; Width 8 inches.

Each

No. 052RC—Weight 2¼ lbs. $2.50

Loose

GENTS

Nickel Plated Truss Spring; Waterproof Elkgrain Leather Covered; Wood Base; Length 9¼ inches; Width 7½ inches.

Each

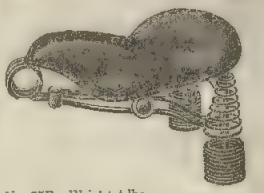
No. 10R—Weight 1¼ lbs. $1.10

Loose

BICYCLE SADDLES

*RUGBY

"ORIGINATED BY US"



MOTOR BIKE

Stamped Steel Frame and Trusses; Cushion Springs combined with Universal Cone Springs; all Finished in Black Enamel; Top is Hair Padded and Formed to Fit over a 5 Ply Wood Veneer Base; Spanish Leather. Length 10½ inches; Width 8½ inches.

Each

No. 25R—Weight 4 lbs. $4.70

Loose

JUVENILE

Waterproof Elkgrain Leather Covered; Hair Felt Padded; Wood Base; Universal Spring; Nickel Plated; Length over all 10 inches; Width 7¼ inches.

Each

No. 30RP—Weight 1½ lbs. $2 20

Loose

JUVENILE

Waterproof Elkgrain Leather Covered; Hair Felt Padded; Wood Base. Cushion Comfort Springs; Nickel Plated; Length over all 10 inches; Width 8 inches.

Each

No. 40RP—Weight 3 lbs.... ..... $2 70

Loose

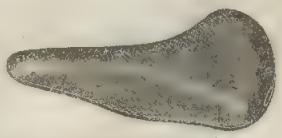
LADIES

Nickel Plated Coil Spring; Waterproof Elkgrain Leather Covered, Wood Base; Length 8 inches; Width 8¼ inches.

Each

No. 07RC—Weight 1¼ lbs. $2 20

Loose



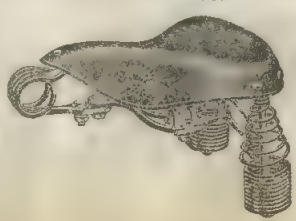
SUSPENSION RACING SADDLE

Ox Blood Leather Top; Length 11 inches; Width 6 inches.

Each

No. Drome Champ—Weight 1½ lbs. $4 60

Loose



TROXEL TIP TOP

Stamped Steel Frame and Trusses; Cushion Springs Combined with Universal Spring, all Finished in Black Enamel; English Russet Leather Top; Length of Seat 10¾ inches; Length Over All 12 inches; Width 7¾ inches.

Each

No. Tip Top—Weight 3¼ lbs. $2.80

Loose

MULE SKINNER WHIPS

★DIAMOND

Best Buck Skin Stitched Oiled Brown Leather Cover; Shot Loaded Butt; with Black Leather Braided, Raised Pattern, Braided White Buck Skin Point with Waxed Buck Skin Keeper; Buck Skin Lash.

Per Dozen

No. DMS—Length Over All 8½ feet; Weight per Dozen 10 lbs. $48 00

Mizzoo

Mizzoo

★MIZZOO

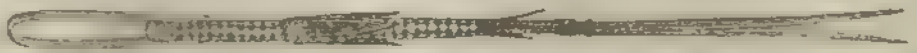
Best Buck Skin Stitched Oiled Brown Leather Cover; Shot Loaded Butt, Two Braided Black Leather Buttons, Tacked on, ½ inch Leather Strap Wrist Loop; Short Twisted Buck Skin Point; Buck Skin Lash.

Per Dozen

No. MS—Length Over All 6 feet; Weight per Dozen 7½ lbs. $33.00

Loose

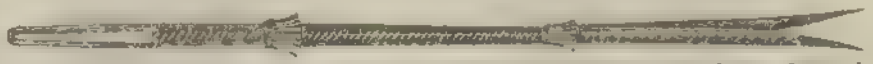
QUIRTS



White and Russet Braided Leather; Quirt Lash Handle, Covered with White and Russet Leather Braid. Three Braided Russet Leather Keepers; Leather Fringe at Handle and Point, Leather Strap Wrist Loop, Knotted, Two ⅜ inch Heavy Russet Leather Points or Lashes, Braided into Body.

Per Dozen

No. 3—Length Over All 3 feet; Weight per Dozen 9 lbs. $13.00

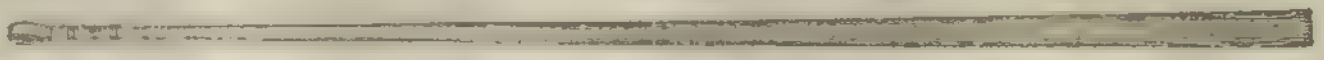


Best Buck Skin Stitched Oiled Brown Leather Cover, Leather Stuffed Handle, Oak Lash, 3 inch Flexible Handle, Leather Stuffed Leather Fringe at Handle and Point; Plain Leather Strap Wrist Loop; Two ⅜ inch Heavy Latigoe Leather Points or Lashes, Sewed into Body.

Per Dozen

No. 12—Length Over All 3 feet; Weight per Dozen 4½ lbs. $12.00

Loose



Best Quality Selected Stock, Oregon Hickory, Well Seasoned; Turned, Tapered, Smooth, Satin Paper Finished, ½ inch White Buck Skin Keeper Bound with Waxed Brown Linen Thread.

Per Dozen

No. 958A—Length 3½ feet; Weight per Dozen 3¼ lbs. $3.00

No. 958B—Length 4 feet; Weight per Dozen 4½ lbs. 3.50

No. 958C—Length 4½ feet; Weight per Dozen 4¾ lbs. 4 00

No. 958D—Length 5 feet; Weight per Dozen 5 lbs. 4.50

One Dozen in a Bundle

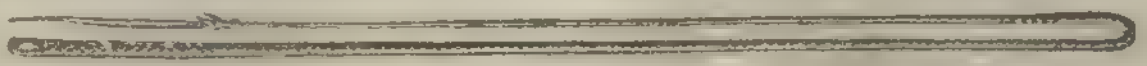
WHIP LASHES

California Style; Oaxa Raw Hide Ox; Braided Solid, Plain Loop, Braided; Oiled Raw Hide Snap.

Per Dozen

No. 026—Length 6 feet; Weight per Dozen 5¼ lbs. $11 00

No. 027—Length 7 feet; Weight per Dozen 6 lbs. 13.50



California Style; Oaxa Raw Hide Ox, Soft Braided, Knotted Loop Lash, Raw Hide Snap.

Per Dozen

No. 4—Length 4 feet; Weight per Dozen 3½ lbs. $6 50

No. 5—Length 5 feet; Weight per Dozen 3 lbs. 9.00

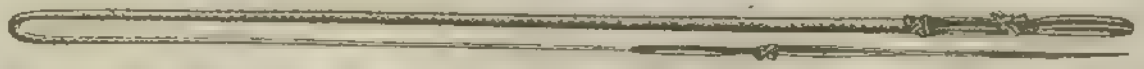
Loose

WHIP LASHES

California Style, Oiled Rawhide Horse, Braided Solid; Plain Loop Braided in; Red Coral Snap, Braided in and Knotted

Nos.	1504	1505	1506	1508	1510
Length Feet	4	5	6	8	10
Weight per Dozen, Lbs	1¾	1½	1¾	2	2¼
Per Dozen	$4 00	4.80	7 00	9.00	10.50

Loose



New California Style; Six Plait; Genuine Velvet Tanned **Buckskin**, Light Tan Color; Plain Loop Braided in; Buckskin Snap, Braided in

No.	B10
Length Feet	10
Weight per Dozen, Lbs	3½
Per Dozen	$32 00

Loose

WHIP SNAPS

Hard Braided with Loops Braided in; Three Binding Knots; Length 7 inches

	Per Gross
No. 1095—All Cotton; Green	$1.80
No. 1098—Half Silk, Half Cotton; Green; One Gross in a Bundle; Wt. per Gross 3 ozs.	$5.50

Loose

✢WHIP DISPLAY STANDS

Cut Shows No. 1 in Use

Cut Shows No. 1 Complete, Ready for Use

Cut Shows No. 2 in Use

✢ BEST PORTABLE REVOLVING

Adjustable in Height from 8 feet to 9 feet 10 inches; all Castings made of Best Gray Cast Iron; Heavy Wrought Iron Pipe Center Support, Telescoped so as to Revolve Freely; Painted Throughout in Dark Olive Green and Gilt Trimmings, Varnished; Regular Capacity One Gross Whips but Not Limited to Top Holes can Accommodate More Whips Each as Desired Greatly Increasing the Capacity; Whips Quickly and Easily Inserted or Taken out; Furnished Complete with Large Heavy Casters, Easily Moved about.

Dimensions (See Cut above)

Star No. 2, Cast in Two Pieces 9 inches from Top to Bottom
Crown No. 1, Cast in One Piece, 14 inches in Diameter, 144 Notches, 1¼ inches Deep Outside, 1 inch Deep Inside.
Spider No. 4, Cast in One Piece, 24 inches in Diameter, 72 Notches, 1¼ inches Deep Outside, and Hold Whips Firmly in Place.
Shelf No. 10 Cast in One Piece, 30 inches in Diameter, Reinforced with Six Ribs on Under Side; very Strong Pipe.
Pipe No. 1, Inside Rods, No. 9, 1 27 inches, No. 8, 1 24 inches; No. 7, 1½x30 inches (all Outside Measurements).
Legs No. 8 Spread 52 inches; Cast in Leg Together with Three Lugs Cannot Become Loose or come Apart.
Stop No. 5 Between Around Pipe No. 7 2 inches from Lower Upper Part of Rack Between No. 8; Pipe No. 9 Slides over No. 8
Legs No. 8 are Clamped and held Together with Bolts Around Pipe No. 7, Rack can be Moved and Leveled at this Point. (See F.)

No. 1—Complete with Shelf for Displaying Harness Sundries, Each $21 00
Specialties, etc.
One in a Box; Weight Packed 159 lbs.

No. 2 Without Shelf Each $20 00
One in a Box; Weight Packed 75 lbs.

WHIP RACKS

Malleable Iron, Black Japanned; Diameter 13 in. Made in Three Sections and Bolted Together; Bright Steel Wire Rings

No. 2/0—Circular; Capacity 210 Whips $14.40

One Dozen in a Case; Weight per Case 100 lbs.

Items Marked ✢ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory at Galva, Ill.

✠CEDAR CANVAS COVERED CANOES

MULLINS IMPROVED CHARLES RIVER MODEL

SPECIFICATIONS

Ribs—The Ribs are of the Very Finest Grade of Selected White Cedar, ⅛ inch Thick; 2¼ inches Wide and Perfectly Spaced 1½ inches apart. These Ribs are Steam Bent and Shaped over Solid Moulds, Insuring Perfect Symetry and Uniformity of Model.

Planking—The Best Quality ⅜ inch Cedar in Long Strips, Laid Perfectly Smooth With Tight Joints, Copper Fastened Throughout with Copper Tacks, Carefully Clinched.

Stems—Ash, Steam Bent, Light yet Thoroughly Substantial.

Bang Plates—Half Round, Polished Brass, Pressed to Correct Form.

Gun Wales—Open Gun Wales of Clear Grained Spruce, One Piece Full Length of Canoe, Adding Strength and Insuring Ease in Washing and Draining.

Thwarts—Best Selected Ash, Two in 16-foot Model, Three in 17 and 18 foot Models.

Seats—Two Substantial Cane Seats, One at Bow and Stern of Each Canoe.

COLORS—Blue, Red or Coach Green, Be Sure to Specify what Color is Wanted when Ordering Canoes.

Keels—Oak Keels ⅛ inch Furnished on all Models Without Additional Cost.

Oiling Hull—The Wooden Hull, when Completed is Thoroughly Smooth and is then Oiled both Inside and Out. This Prevents Hull Absorbing Water.

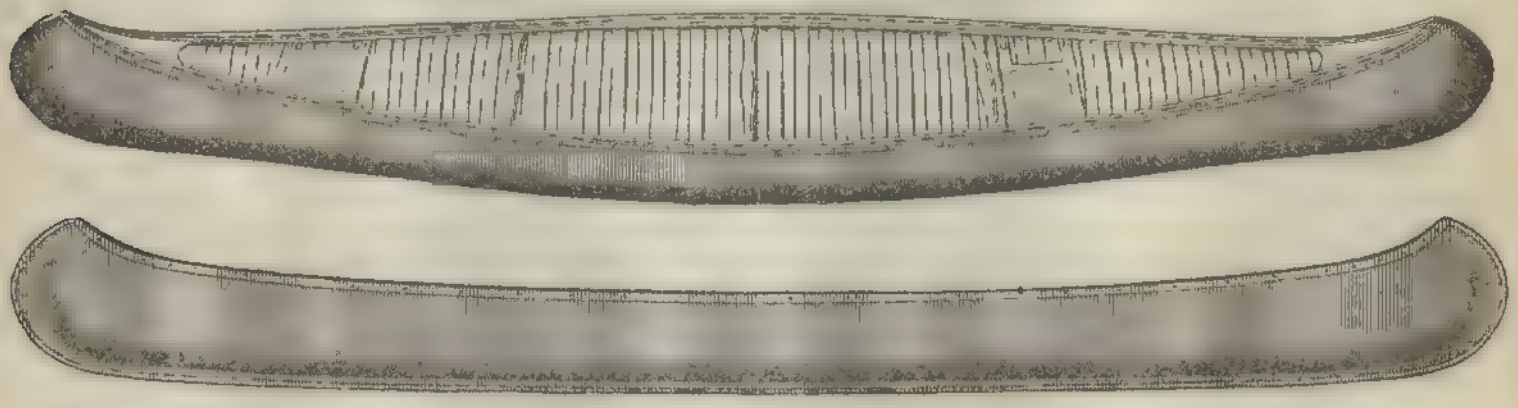
Canvas—Seamless Canvas Duck, Made of Two or More Twisted Yarns in the Filling with Double Thread Warp, Which Makes the Canvas Closely Woven and Practically Waterproof Even Without Filler or Paint. One Piece of Gun-Wale to Gun-Wale and From Stem to Stem, This Material with a Special Method of Filling and Painting, Makes a Well-Nigh Indestructible Covering.

Long Decks—Clear Grained Timbers With Low Combing at Ends; 24 inches Long in 16-Foot Model, 26 inches Long in 17-Foot Model, 30 inches Long in 18-Foot Model; Only Furnished When Specially Ordered; and at Additional Prices Quoted upon Request.

Standard Grade—Embodies all the Desirable Features One Could ask for in a Canoe, viz., Correct Design, Best Selected Materials, Expert Workmanship in Construction and Finish at the Prices Given Below.

I. X. L. Grade—This is all that is best in Canoe Construction—Material, Workmanship and Finish. Every Rib, Every Piece of Planking and Lumber Entering into this Grade is Hand Selected and Matched to Secure Uniformity of Color. This Grade will Stand Comparison with the Highest Priced Canoe on the Market.

Prices Given Include Keel and Open Gun Wales

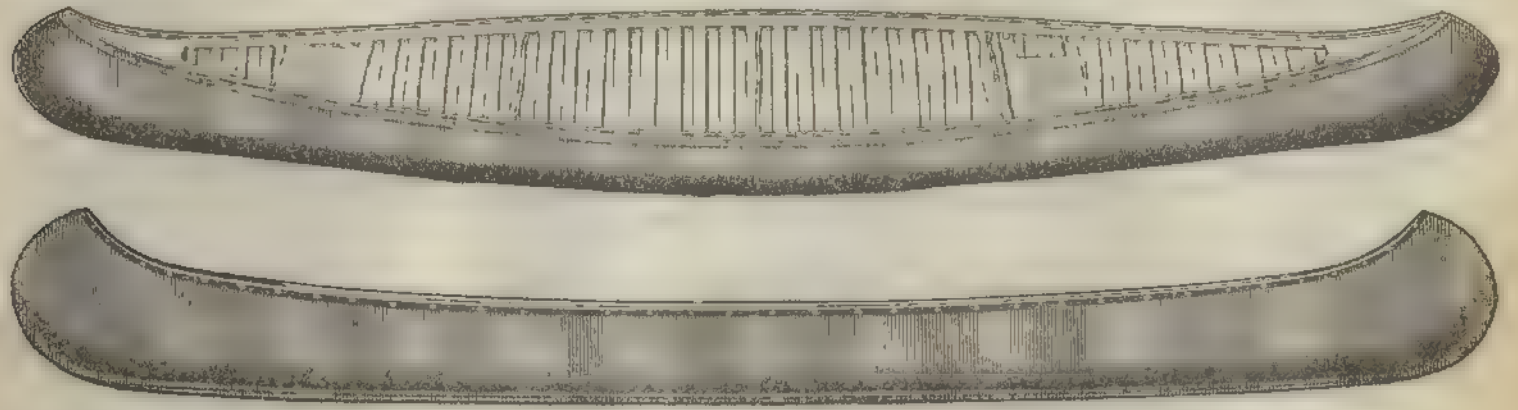


YALE

Standard Grade	Each	I. X. L. Grade	Each
✠ No. YS16—16 Foot	$68.50	✠ No. YX16—16 Foot	$73.10
	Lacal 39 00		43 00

DIMENSIONS

LENGTH	Width at Full Amidship	Width at Bow Amidship	Depth Amidship	Approximate Weight	Approximate Weight Crated	Approximate Weight Crated for Export	Cable Rates for Export	Code Word Standard Grade	Code Word I. X. L. Grade
16 ft.	32 ins.	33½ ins.	13 ins.	68 lbs.	97 lbs.	225 lbs.	130	TON	HAWK



PRINCETON

Standard Grade	Each	I. X. L. Grade	Each
✠ No. PS17—17 Foot	$71 40	✠ No. PX17—17 Foot	$78.20
	42 00		46.00

DIMENSIONS

LENGTH	Width at Full Amidship	Width at Bow Amidship	Depth Amidship	Approximate Weight	Approximate Weight Crated	Approximate Weight Crated for Export	Cable Rates for Export	Code Word Standard Grade	Code Word I. X. L. Grade
17 ft.	33½ ins.	34½ ins.	13½ ins.	72 lbs.	110 lbs.	240 lbs.	130	TON	IMP

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Salem, Ohio.

✣CEDAR CANVAS COVERED CANOES
MULLINS IMPROVED CHARLES RIVER MODEL
SPECIFICATIONS

Ribs—The Ribs are of the Very Finest Grade of Selected White Cedar, ⅛ inch Thick, 2¼ inches Wide and Perfectly Spaced 1½ inches apart. These Ribs are Steam Bent and Shaped over Solid Moulds, Insuring Perfect Symetry and Uniformity of Model

Planking—The Best Quality ⅛ inch Cedar in Long Strips, Laid Perfectly Smooth with Tight Joints, Copper Fastened Throughout with Copper Tacks, Carefully Clinched.

Stems—Ash, Steam Bent, Light yet Thoroughly Substantial.

Bang Plates—Half Round, Polished Brass, Pressed to Correct Form.

Gun Wales—Open Gun Wales of Clear Grained Spruce, One Piece Full Length of Canoe, Adding Strength and Insuring Ease in Washing and Draining.

Thwarts—Best Selected Ash, Two in 16-foot Model, Three in 17 and 18 foot Models.

Seats—Two Substantial Cane Seats, One at Bow and Stern of each Canoe.

COLORS—Blue, Red or Coach Green, Be Sure to Specify what Color is Wanted when Ordering Canoes.

Keels—Oak Keels ½ inch Furnished on all Models Without Additional cost.

Oiling Hull—The Wooden Hull, when Completed, is Thoroughly Smooth and is then Oiled both Inside and Out. This Prevents Hull Absorbing Water.

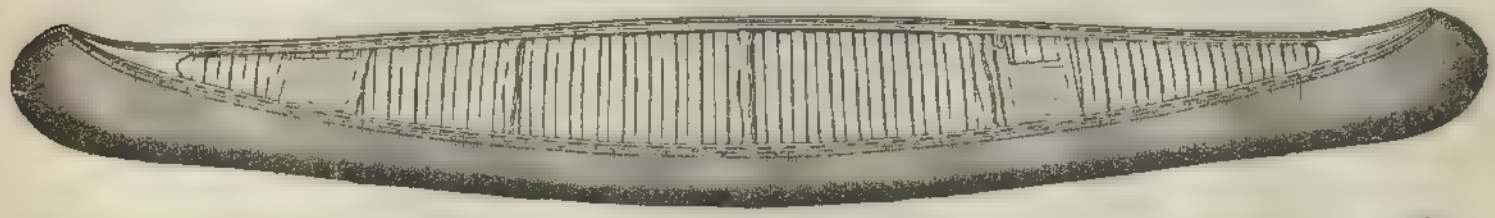
Canvas—Seamless Canvas Duck, Made of Two or More Twisted Yarns in the Filling with Double Thread Warp, which Makes the Canvas Closely Woven and Practically Waterproof, even without Filler or Paint. One Piece of Gun-Wale to Gun-Wale and from Stem to Stem; This Material with a Special Method of Filling and Painting, Makes a Well-Nigh Indestructible Covering.

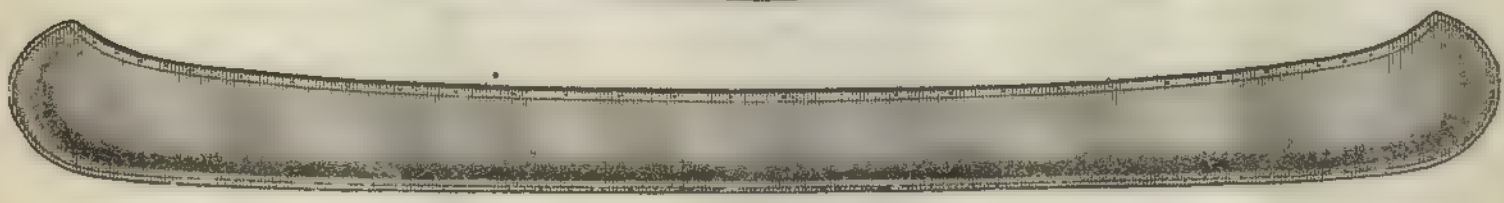
Long Decks—Clear Grained Timbers with Low Combing at Ends; 24 inches Long in 16-foot Model, 26 inches Long in 17-foot Model, 30 inches Long in 18-foot Model; Only Furnished when Specially Ordered; and at Additional Prices Quoted upon Request.

Standard Grade—Embodies all the Desirable Features one could ask for in a Canoe, viz.; Perfect Design, Best Selected Materials, Expert Workmanship in Construction and Finish at the Prices Given Below.

I. X. L. Grade—This all that is best in Canoe Construction—Material, Workmanship and Finish. Every Rib, Every Piece of Planking and Lumber Entering into this Grade is Hand Selected and Matched to Secure Uniformity of Color. This Grade will Stand Comparison with the Highest Priced Canoe on the Market.

Prices Given Include Keel and Open Gun Wales





HARVARD

Standard Grade	Each	I. X. L. Grade	Each
✣ No. HS18—18 Foot	$77.50 45.00	✣ No. HX18—18 Foot	$83.30 49.00

DIMENSIONS

LENGTH	Width at Rails Amidship	Width at Bilge Amidship	Depth Amidship	Approximate Weight	Approximate Weight Crated for Export	Cubic Feet for Export	Code Word Standard Grade	Code Word I. X. L. Grade
18 ft.	35 ins.	35½ ins.	13¾ ins.	80 lbs.	120 lbs.	250 lbs.	140	BIRD	CROW

SPONSON-NON-CAPSIZABLE

Standard Grade	Each	I. X. L. Grade	Each
✣ No. SS17—17 Foot	$90 00 53.00	✣ No. SX17—17 Foot	$98 90 57 00

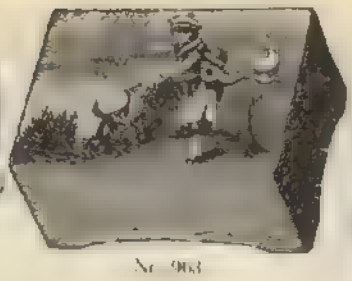
DIMENSIONS

LENGTH	Width at Rails Amidship	Width at Sponsons Amidship	Depth Amidship	Approximate Weight	Approximate Weight Crated for Export	Cubic Feet for Export	Code Word Standard Grade	Code Word I. X. L. Grade
17 ft.	33½ ins.	40½ ins.	13½ ins.	100 lbs.	130 lbs.	270 lbs.	145	DIN	TED

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct From Factory, Salem, Ohio,

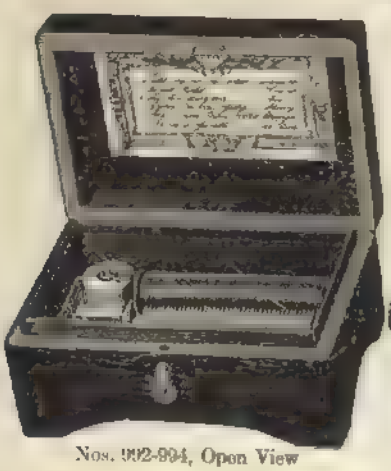
MUSICAL BOXES

No 984



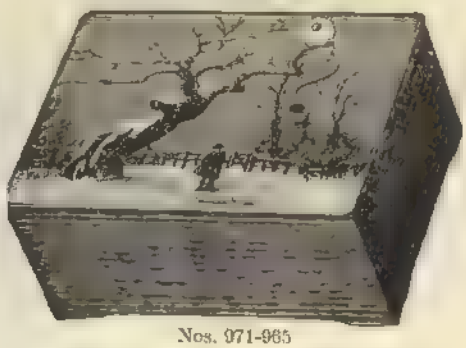
No 983

Nos. 970-983



Nos. 992-994, Open View

No 991



Nos. 971-985

CRANK MOVEMENTS

No 958	1 Air, 12 teeth, round nickel case, chromo top	Each $1 95
No 959	1 Air, 18 teeth, round nickel case, chromo top	Each 2 10
No. 983	2 Airs, 18 teeth, oblong wood case, chromo top	Each 2 90
No 984	2 Airs, 36 teeth, large round nickel case, chromo top	Each 4 80
No 971	3 Airs, 18 teeth, oblong wood case, chromo top	Each 3 45
No 985	4 Airs, 36 teeth, wood case, chromo top, size 6½x4¾x3½	Each 5 40

IMPROVED SPRING MOVEMENTS—WITH ATTACHED KEY.

No 979	Key Winding, 2 airs, 28 teeth, self-changing, 1⅝-inch cylinder, size 4½x3¼x2¾, chromo top	Each $ 6 00
No 980	2 Airs, 1⅝-inch cylinder, self-changing, wood case, chromo top, etc	Each 7 50
No 986	2 Airs, 36 teeth, 1⅝-inch cylinder, self-changing, chromo top, glass cover, size 15 x 8 x2¼	Each 7 70
No. 987	3 Airs, 36 teeth, 2¼-inch cylinder size 7¼x4 x2½, otherwise same as No 986	Each 10 75
No 988	4 Airs, 36 teeth, 2¼-inch cylinder size 7 x4 x2½, otherwise same as No 986	Each 11 80
No. 989	6 Airs, 36 teeth, 3-in barrel cylinder, size 5½x , otherwise same as No 986	Each 17 15
No 991	4 Airs, 2¾-inch cylinder, self-changing, wood case, Swiss carved and painted landscape on cover	Each 19 80
No 992	3 Airs, 2¾-inch cylinder, self-changing, fancy wood case with metal bound top	Each 16 00
No 993	4 Airs, 2¾-inch cylinder, self-changing, fancy wood case, with metal bound top	Each 18 10
No 994	6 Airs, 3 -inch cylinder, self-changing, fancy wood case, with metal bound top	Each 23 30

Nos. 9318-9319

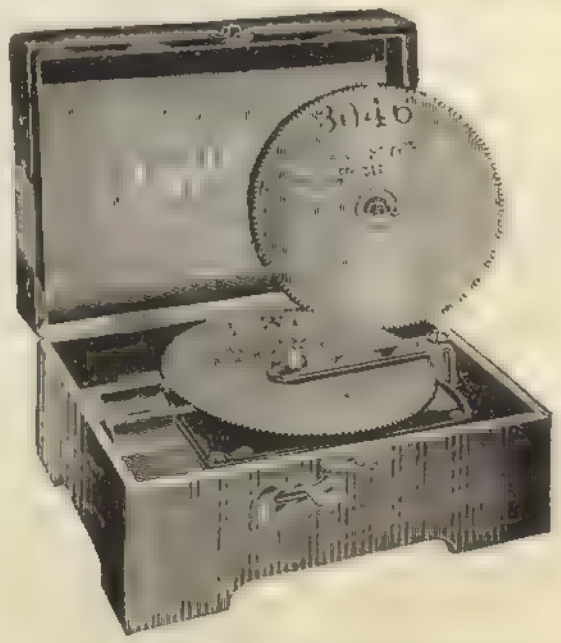
Imitation Rosewood Cases, Decalcomanie Ornamented Top, Interior Glass Covers, Spring Lever Movements, Tune Dial, Ratchet Lever Winding.

No. 9250	6 Airs, 3¼-inch cylinder	Each $37 60
No. 9254	8 Airs, 4⅛-inch cylinder	Each 42 80
No. 9256	10 Airs, 6½-inch cylinder	Each 50 00
No. 9258	12 Airs, 8 -inch cylinder	Each 62 00

Cases with Rosewood Tops, Variegated Wood Inlaying, Interior Glass Covers, Nickel Plated Spring Lever Movements, Outside Crank Winding. EACH WITH TUNE DIAL AND SAFETY CHECK.

No 9318	12 Airs, 14-inch cylinder, tune skipper and speed regulator, case 11x27 inches	Each $114 20
No. 9319	12 Airs, 13-inch cylinder, with Zither attachment, tune skipper and speed regulator, case 11x27 inches	Each 118 80

A Zither is one of the most charming instruments, and when added to the Musical Box, as in the above number, produces a most delightful effect. The Zither attachment consists of a number of steel bars, which are struck by hammers operated through the medium of the Zither attachment which is an adjustable bar that may be raised at will.



THE ARION MUSIC BOX.

No 9300

The instrument is exceedingly well made, and considering its size, its tone is powerful. As a producer of music, nothing more like it to please can be found. It is the Arion Music Box. It is a self-playing, key-winding instrument. The case is made of mahogany with inlaid, and is handsomely finished and has a chromo top. Size 8x5½x11 inches.

No 9300 Price, including six tune sheets . . Each $17 80

Make the little boy or girl happy just what they want durable, well constructed and of good quality—prices exceptionally low

No. 9107

TOY PIANO STOOLS

No. 9108

No. 9107 Hard Wood, dark mahogany finish, 4 legs, full height 7½ inches ..... Each $1 10

No. 9108 Hard Wood, dark mahogany finish, 4 legs, adjustable seat with set screw, full height 11½ inches ..... Each 2 25

TOY PIANOS

No. 9103

No. 9100 10 Keys, with hinged lid, fancy panels 11¾x8⅞x7½, rosewood finish, in pasteboard box. Weight 2⅞ lbs. ..... Each $ 4 00

No. 9101 15 Keys, with hinged lid, 15⅞x10¾x8⅛, rosewood finish, in pasteboard box. Weight 4 lbs. ..... Each 5.00

No. 9102 15 Keys, with hinged lid, neat metal bronzed standards and candelabra, 16½x14x9, rosewood finish, in pasteboard box. Weight 7¾ lbs. ..... Each 10.40

No. 9103 18 Keys, ornamental legs and candelabra, 19x17½x10, rosewood finish, in pasteboard box. Weight 10⅞ lbs. ..... Each 14 80

No. 9104 22 Keys, 3 panels, hinged lid, 23x24x11, handsomely finished in rosewood, each packed in wooden case. Weight 42¾ lbs. ..... Each 23 20

No. 9105 37 Chromatic Keys, hinged lid, 3 panels, 23x24x12, handsomely finished in rosewood each packed in wooden case. Weight 47¾ lbs. ..... Each 36.20

No. 9106 37 Chromatic Keys, hinged lid, 3 panels, 25x27x13, handsomely finished in rosewood each packed in a wooden case. Weight 59¾ lbs. ..... Each 56 00

Note:—No stools are included with pianos.

TOY OR YOUTHS' DRUMS

Illustrations Show About One-Eighth Actual Size

No. 91 Metal Shell, imitation brass, handsomely embossed, flag and shields, 7-inch, with sticks ..... Each $ 1.75

No. 92 Metal Shell, handsomely embossed, star and crescent, 9-inch, with sticks and sling ..... Each 3.50

No. 93 Metal Shell, imitation brass, handsomely embossed heavy pattern, 10-inch, with sticks and sling ..... Each 3 80

No. 94 Metal Shell, imitation brass, handsomely embossed, with Eagle and American flags, 11-inch, with sticks and sling ..... Each 4.60

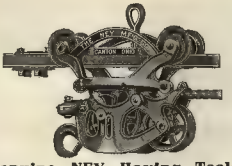
No. 95 Metal Shell, nickel plated, snare drum pattern, heavy cord, two sheepskin heads 12-inch, with sticks and sling. Each 6 00

No. 96 Metal Shell, nickel plated nickel plated band on hoops, 8 Prussian rods, one calf and one sheepskin head, 6 rawhide snares with snare strainer 12-inch with sticks and sling .. Each 12 40

No. 97 Metal Shell, nickel plated, hoops bound with nickel plated band, heavy drum cord, 9 metal bound drum ears, 2 calfskin heads, 2 rawhide snares, 15-inch, with sticks and sling ..... Each 12 40

No. 970 14-inch Bright Metal Shell, 7 inches high, 7 braces, natural colored, maple hooped 6 snares, long pattern snare strainer, 1 calfskin and 1 sheepskin head, with rosewood sticks. Each .. 26.20

No. 9070 14-inch Bright Metal Shell, 4½ inches high, 6 rods, natural colored maple hoops, 6 snares, long pattern snare strainer, 1 calfskin and 1 sheepskin head, with rosewood sticks..... Each 26.60



Genuine NEY Haying Tools

STANDARD FOR FORTY YEARS

THE COMPLETE LINE — WRITE FOR CATALOGUE

THE NEY MFG. CO. — Canton, Ohio

Perfect Clinching Hose Mender

THE POPULAR SELLER

SMOOTH, STRONG, TIGHT, EASY TO APPLY AND *PROFITABLE*

Slip it in the Hose and Hammer Down —That's All.

Send for Catalogue of Hose Accessories.

L. R. Nelson :: **Peoria, Ill.**

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Ask Your Jobber

For Harness Snaps, Rope Snaps, Breast Chains, Horse and Cattle Ties, Halters, Wagon Jacks, Gate Hooks, etc.

MADE BY

Covert's Saddlery Works

INTERLAKEN, N. Y., U. S. A.

Quick-Set Steel Drive Posts

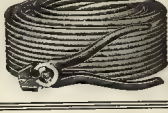
These are some of the reasons why the demand for these posts is growing: Cost less than wood or concrete guaranteed for 35 years. A few blows set them adapted to any kind of wire fencing, wire strung easily and quickly.

It will pay you to handle these posts. They appeal to farmers and all property owners. Send for our catalog. It is free

Buffalo Steel Co., Tonawanda, N. Y.

Safety Fuse

Ensign-Bickford is the ORIGINAL safety fuse—tested and tried by time and experience.



The Ensign-Bickford Co.

Simsbury, Conn., U.S.A.

American Barbed Wire

Both two and four point; Glidden, Baker Perfect, Ellwood Washburn, American Special, Lyman and Iowa brands.

AWARDED

GRAND PRIZE

American Nails, Tacks, Plain and Galvanized Wire

R.R. Spikes

Staples

Barbed Wire on patented steel reels

Nail and Wire Catalogue sent free for the asking

AMERICAN STEEL & WIRE COMPANY

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DID YOU EVER SEE

Wagner's KANT-SUK Calf and Cow Weaner?

IT'S A WONDER

A perfectly humane and effective device that sells the whole year round

The hinge construction of this article allows the calf and cow to graze in the same pasture yet effectually prevents sucking. It is easily applied. Once used always used. KANT-SUK Weaners have no equal.

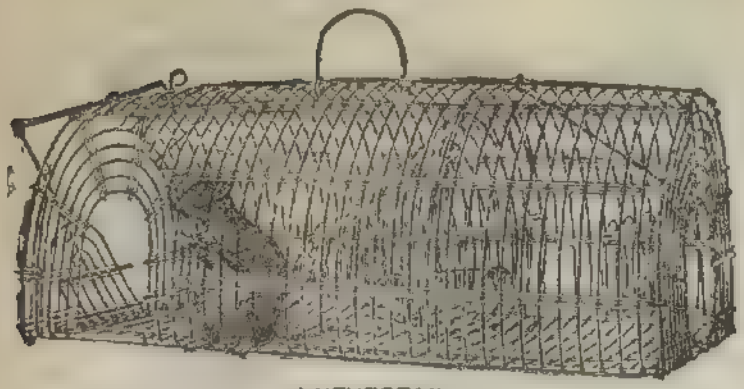
We make a complete line of Saddlery Hardware, also Hardware Specialties

MANUFACTURED BY

Imperial Bit & Snap Company, Racine, Wis.

All the leading jobbers carry them in stock

RAT TRAPS



★NEVERFAIL

Strongly and Rigidly Constructed of No. 16 Coppered Steel Wires, Securely Bound to 11 Flat Heavy Coppered Steel Wire Ribs; Wires Can Not be Moved or Displaced; the Tilt is Very Sensitive; Top Handle for Carrying; Brass Name Plate.

Per Dozen

No. 1900—Length 19½ inches; Width 10½ inches; Height 8 inches; Weight per Dozen 45 lbs..... **$12.50**

Half Dozen in a Crate

CLIMAX

No. 17 Coppered Steel Wires, Bound to Nine Heavy Flat Coppered Steel Ribs, Impossible to be moved or Displaced; Safety Door Operated and Locked from Top; Tilt is Sensitively Balanced; Top Handle for Carrying; Metal Name Plate.

Per Dozen

No. 1800—Length 17 inches; Width 9½ inches; Height 7¼ inches; Weight per Dozen 30 lbs..... **$10 00**

Half Dozen in a Crate

★HOLDFAST

Coppered Steel Wires, Bound to Heavy Coppered Steel Wire Ribs with Light Wire; Impossible to Move or Displace Wires; Rat Can Not Escape; Safety Door is Operated and Locked from the Top; Tilt is Sensitively Balanced and Never Fails to Work; Top Handle for Carrying; Metal Name Plate.

Per Dozen

No. 1100—Length 16 inches; Width 8 inches; Height 6¾ inches; Weight per Dozen 19½ lbs..... **$8 50**

Half Dozen in a Crate

RAT TRAPS

MAMMOTH

No. 16 Coppered Steel Wire; Bound to Twelve Flat Coppered Steel Ribs; Impossible to Move or Displace; Large Animal Opening to Prevent Escape of Rats; Tilt has Very Sensitive Balance; Door Operated and Locked from Top.

Per Dozen

No. 1700—Length 24 inches; Width 12 inches; Height 8¼ inches; Weight per Dozen 58 lbs..... **$15 50**

Half Dozen in a Crate

ACME

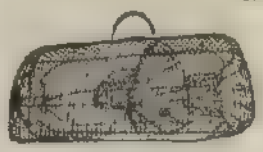
Coppered Steel Wire, Bound to Coppered Flat Steel Ribs Holding Firmly and Permanently; Sensitive Balance; Safety Door Operated and Locked from Top; Top Handle for Carrying

Per Dozen

No. 1600—Length 15 inches; Width 8 inches; Height 7 inches; Weight per Dozen 26 lbs..... **$8.00**

Half Dozen in a Crate

MOUSE TRAPS



★HOLD FAST

These Traps Catch the Mice Alive; to Kill, Turn Them into a Pail of Water.

Per Dozen

No. 1000—Coppered Steel Wire, Strongly Braced and Laced; Length 8 inches, Width 4⅝ inches, Height 4 inches; 7 Brace Wires; Wire Handle to Carry. Weight per Gross 66 lbs..... **$5 50**

Half Dozen in a Package

MIDGET

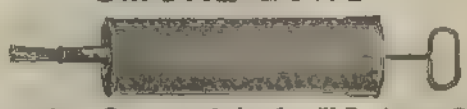
No. 19 Coppered Wire; 6 Coppered Flat Steel Ribs, Holding Mesh Wire Firmly and Permanently in Place.

Per Dozen

No. 900—Diameter 6¼ inches; Height 3 inches; Weight per Dozen 3 lbs..... **$2.20**

One Dozen in a Carton

SMOKE GUNS



This Smoker is so Constructed that it will Produce a Dense Volume of Stifling Sulphur Smoke. By Working the Plunger this Forces the Smoke into Every Part of the Animal's Den, Driving the Animal Out. It will be Found Invaluable in Driving Out Skunk, Coon, Mink, Fox, Rabbits, etc.

Each

No. SG—Made of Heavy Tin; Heavy Wire Plunger Rod; Length 19 inches; Diameter 4 inches; Weight 3 lbs..... **$3 70**

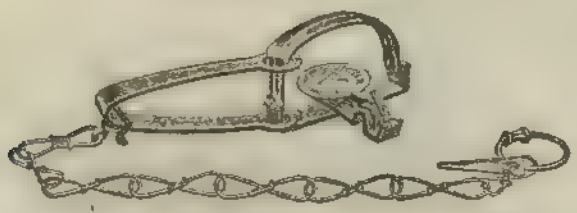
One in a Box; Full Directions for Using with Each Gun

SMOKE GUN POWDER

Per Dozen Packages

No. SGP—For Use with Above Gun..... **$5 00**

STEEL TRAPS



VICTOR

SINGLE SPRING, WITH CHAIN

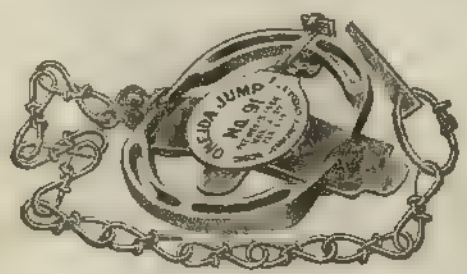
	Per Dozen
No. 0V —Rat and Gopher; Spread of Jaws 3½ inches; Weight per Dozen 5 lbs. . . . . 55 Dozen in a Barrel	$2 04
No. 1V —Muskrat, Skunk, Mink, etc.; Spread of Jaws 4 inches; Weight per Dozen 7 lbs. . . . . 40 Dozen in a Barrel	2.40
No. 1½V—Mink and Fox; Spread of Jaws 4⅞ inches; Weight per Dozen 11 lbs. . . . . 25 Dozen in a Barrel	3 60

ONEIDA

SINGLE SPRING

JUMP TRAPS, WITH STEEL WIRE CHAIN

	Per Dozen
No. 0J —Rat and Gopher; Spread of Jaws 3⅛ inches; Weight per Dozen 5 lbs. . . . . 40 to 60 Dozen in a Barrel	$2.76
No. 1J —Muskrat; Spread of Jaws 4¾ inches; Weight per Dozen 8½ lbs. . . . . 30 to 40 Dozen in a Barrel	3 26
No. 1½J —Mink; Spread of Jaws 5⅛ inches; Weight per Dozen 10 lbs. . . . . 25 to 30 Dozen in a Barrel	4.88
No. 2J —Coon or Skunk; Spread of Jaws 5 inches; Weight per Dozen 15 lbs. . . . . 15 to 20 Dozen in a Barrel	7.14
No. 3J —Fox or Otter; Spread of Jaws 6⅝ inches; Weight per Dozen 26 lbs. . . . . 10 to 15 Dozen in a Barrel	9.52
No. 4J —Otter or Wildcat; Spread of Jaws 6½ inches; Weight per Dozen 30 lbs. . . . . 8 to 12 Dozen in a Barrel	11.22



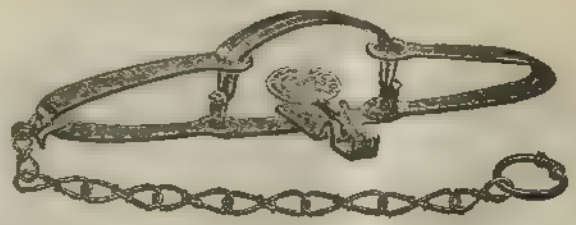
ONEIDA

DOUBLE JAWED JUMP TRAP

For Muskrat, Skunk, Mink, etc.

	Per Dozen
No. 91J—Spread of Jaws 4 inches; Wt. per Dozen 8½ lbs. . . . . 25 to 38 Dozen in a Barrel.	$4 08
No. 91½J—Spread of Jaws 5¼ in., Wt. per Dozen 10¼ lbs. . . . . 25 to 30 Dozen in a Barrel.	5.78

STEEL TRAPS



VICTOR

DOUBLE SPRING, WITH CHAIN

	Per Dozen
No. 2V—Fox; Spread of Jaws 4⅞ inches; Weight per Dozen 14 lbs. . . . . 15 Dozen in a Barrel	$5 04
No. 3V—Otter; Spread of Jaws 5½ inches; Weight per Dozen 21 lbs. . . . . 10 Dozen in a Barrel	6.72
No. 4V—Beaver, Wolf and Coyote; Spread of Jaws 6½ inches; Weight per Dozen 24 lbs. . . . . 8 Dozen in a Barrel	7.92

TRAP CHAINS

EXTENSION

Suitable for All Sizes of Traps

With a few of these Chains in his Kit the Trapper can instantly double the length of a Trap Chain, so that a Trapped Animal can be drowned with certainty or a Drag given free play. This is a Strong Chain with Secure Snap and Ring Fastenings.

	Per Dozen
No. ETC—Length over all 26½ inches; Weight per Dozen 5 Lbs. . . One Dozen in a Carton	$0.90

TRAP CLAMPS

Malleable Iron Body and Plate;
Steel Screw

One of these clamps applied to each spring will, by a few turns of the thumb-screws, bend the springs to their places, so that the pan may be adjusted without difficulty. No. 4 Clamp can be used on any trap smaller than No. 4½. Nos. 5 and 6 are strong clamps especially adapted to setting the large traps Nos. 4½ to 6.

Nos.	4	5
Opens, Inches	2¼	4½
Weight, per Dozen, lbs.	2½	9½
Per Dozen	$2.50	6.00
	2.50	[illegible]

Loose

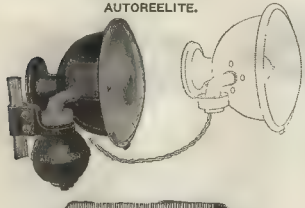
SEARCHLIGHT.
STEWART V-RAY.

The Stewart V-Ray searchlight is correctly balanced below the bracket on a three-point suspension principle. It stays set in the desired position. Without tugging or pulling, but with ease, you can throw the penetrating V-Ray searchlight in any direction, front, down, back or to either side. It has a full six inch curved lens, not plain window glass. A three and one-half inch reducing mirror is located in the center of the back. An important feature is the focusing device which permits replacing the bulb with any bulb on the car, and it takes only a few seconds' time. The reflector is silver plated, not merely polished tin. The Stewart V-Ray searchlight is moisture and dust proof. It comes complete with mirror, electric cord and bracket which fits practically every make of car.

Each

No. 139A—Stewart V-Ray Searchlight; packed one in a carton; weight each 3½ lbs.....**$8.00**

SPOTLIGHTS.
AUTOREELITE.



The Autoreelite provides a lamp of superior construction in combination with the Anderson Cord Reel carrying 12 feet of extension cord, allowing the lamp to be removed for inspection to any part of the car. The adjustable cord reel is located in the ball casing just back of the lamp. To use as a portable, simply unscrew the knurled nut and withdraw the lamp to the desired length. The cord reel operates like an ordinary curtain roller.

Lamp and bracket in beautiful black enamel; fitted with clear lens, backed by a 21 c. p. nitrogen lamp in a silvered parabolic reflector of carefully determined contour to increase and direct the light rays. Switch conveniently located at the back of the lamp. A 3½-inch reducing mirror giving complete view of the road behind. Three pairs of windshield clamps—round, oval and rectangular, included with each lamp, throw away the two not required.

Each

No. 3140—Autoreelite; packed one in a carton; weight each, 5 lbs.....**$13.50**
In lots of 6 or more **12.60**

DASH OR SPEEDOMETER.

The smallest and neatest lamp for the purpose on the market. The shutter protects the bulb when not in use. Made of brass, nickel plated; furnished with Ediswan base.

Each

No. 50T—Length, 4 ins.; diam., 1½ ins. (less bulb).....$1.50

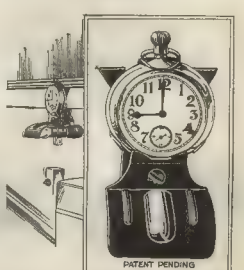
DASH LIGHT.
NEVEROUT.

A dash light which is made especially to fit under cowl board on Ford car. Illuminates entire dash. No drilling necessary as lamp is securely fastened to cowl board with a clamp. Complete with bulb ready for installation.

Each

No. 201—Neverout Ford Dash Lamp.....$2.00

COMBINATION CLOCK AND DASH LIGHT.
NEVEROUT.

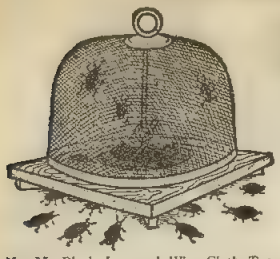


A combination dash light and illuminated clock for Ford cars. Illuminates the clock and entire dash as well as lights the foot pedals, coil box, speedometer, etc. Clock dial is specially designed for easy reading from either front or rear seat. Securely attached by a clamp to angle iron beneath windshield, no drilling. Easy to attach but impossible to remove without a screw driver. Current for this light is furnished from the Ford magneto, therefore at no expense; can be turned on and off at will. Complete including wire, bulb and clock ready to use.

Each

No. 202—Neverout Combination Dash Light and Illuminated Clock.....$5.00

ROACH TRAPS



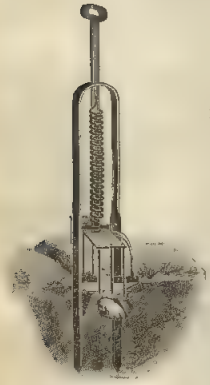
These are the best Traps ever Invented for Catching Roaches. They are Clean and Sanitary, and Much More Desirable for Ridding a House of these Pests than Insect Powder or Poisons. A little Cheese, Potato, Onion or Banana makes an Excellent Bait and one of these Traps will Catch all the Roaches on the Premises.

Per Dozen

No. M—Black Japanned Wire Cloth Top; Tin Bound Edges, Natural Finish Hardwood Bottom, Diameter of Dome Top 5 inches, Size of Base, 5½x5½ inches; Height over all, 4¼ inches, Weight per Dozen 4½ lbs. **$5 00**

One Dozen in a Box

MOLE TRAPS

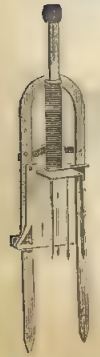


REDDICK

Per Dozen

No. RM—Tinned Steel Frame, Prongs and Lever; Japanned Steel Coil Spring; Height Over All 24 inches; Width 4 inches; Six Prongs 4¾ inches Long; Full Directions for Operating with Each Trap; Weight per Dozen 40 lbs..... **$14 50**

Half Dozen in a Crate



LITTLE GIANT

Self Setting

Trap is Set by Pulling up Plunger Rod; Trigger Catches Itself.

Per Dozen

No. LGM—Cold Rolled Galvanized Steel Frame, Prongs and Lever; Japanned Steel Coil Spring; Height 15 inches, Width 4 inches; Six Prongs 5 inches Long; Weight per Dozen 24 lbs..... **$14.00**

Half Dozen in a Crate

GOPHER TRAPS

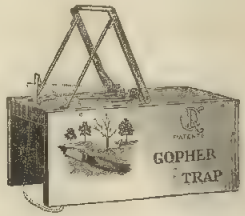
NEWHOUSE

Catches the Animal Around the Neck and Kills Surely and Quickly

Per Dozen

No. G—Tempered Flat Steel Spring; 1 inch wide, Natural Finish; 3 inch Ring; Flat Steel Trigger; Length 6 inches; Height 3½ inches; Weight per Dozen 2¾ lbs.... ..... **$8.50**

One Dozen in a Box

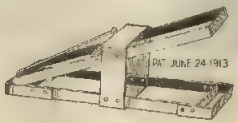


O. K.

Per Dozen

No. OK—Steel Wire Spring; Coppered Steel Jaw, the Trigger and Other Metal Parts are Galvanized Steel; Red Stained Soft Wood Box, Strongly Nailed; Length 6¾ inches, Width 4 inches; Height 3 inches; Height Over All 6 inches; Weight per Dozen 8 lbs. **$3 70**

One Gross in a Case



RENKENS SURE CATCH

No Gopher so Large, None so Small, that this Trap Will Not Catch and Hold

Per Dozen

No. R4—Heavy Steel Wire Spring; Cold Rolled Steel Frame; Black Japanned finish; Steel Wire Trigger; Length 9 inches; Width 2⅞ inches; Height 2⅝ inches; Height over all 4¼ inches; Weight per Dozen, 12 lbs..... **$13.50**

One Dozen in a Box

MOUSE AND RAT TRAPS

★DEFIANCE

A Bushel of Mouse Traps

2½ Gross, (360 Traps in each Basket). Traps to Sell Six for 10 Cents. Basket Sells for 50 Cents, Total $8.50.

Net Profit to Dealer 91 per Cent.

Per Bushel

No. 15B—Bushel Mouse Traps **$8.50**

★DEFIANCE

Coppered Steel Wire Spring, Bail and Lever; Hardwood Trigger Faced with Steel; all Parts Strongly Stapled to Base with Coppered Steel Staples, the Trigger is Very Sensitive and Bait Cannot be Touched without Springing the Trap.

MOUSE Per Gross

No. 15—1⅞x3⅛ inch Hardwood Base; Weight per Gross 12 lbs... **$4 00**
One Dozen in a Box

RAT Per Gross

No. 70—3⅛x7 inches; Hardwood Base; Weight per Gross 69 lbs...**$15 00**
One Dozen in a Box

OUT O'SIGHT

Coppered Steel Wire Spring, Bail and Lever; "Baited" Hardwood Trigger Faced with Tin; all Parts Stapled to Base; Bail Overlaps End of Base when Snapped; Trigger is very Sensitive.

MOUSE Per Gross

No. 25—1⅞x3⅛ inch Hardwood Base; Weight per Gross 18 lbs. .**$14 00**
One Dozen in a Box

RAT Per Gross

No. 75—3⅛x7 inches; Hardwood Base; Weight per Gross 63 lbs...**$36 50**
One Dozen in a Box

OFFICIAL

Base made of Heavy Hardwood; Coppered Steel Wire Spring Bail and Trigger. Trigger is extremely Sensitive and Bait Cannot be Touched without Springing Trap. Double Action Trigger is instantly released by Either Downward Pressure or Upward Nibble and is therefore sure to Catch.

MOUSE

In Gross Lots **RME** per Gross. Per Gross

No. OM—Heavy Hardwood Base; Coppered Steel Wire Spring Bail and Trigger; Size of Base 1⅞x3⅛ inches; Weight per Dozen 1 lb..... **$7.00**
One Dozen in a Carton.

RAT

In Gross Lots per Gross. Per Gross

No. OR—Heavy Hardwood Base; Coppered Steel Wire Spring Bail and Trigger; Size of Base 3⅛x7 inches; Weight per Dozen 3½ lbs **$38.50**
One Dozen in a Carton.

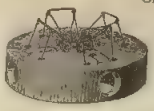
MOUSE AND RAT TRAPS

SQUARE WOOD CHOKER

Red Stained Wood Base; Coppered Steel Springs and Triggers; Height 1⅛ inches.

Per Gross

No. 3—Three Holes; Size 2¼x6¼ inches; Weight per Gross 32 lbs..... **$12.00**
One Dozen in a Package



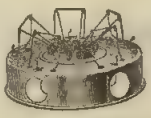
ROUND WOOD CHOKER

Red Stained Wood Base; Coppered Steel Springs and Triggers; Diameter 5¼ inches; Height 1⅛ inches.

Per Gross

No. 4—Four Holes; Weight Gross 48 lbs..... **$16.50**

No. 5—Five Holes; Weight Gross 45 lbs.. . ..... **21 00**
One Dozen in a Package



TIN CHOKER

Heavy Seamless Tin Base; Coppered Steel Springs and Triggers; Diameter 4¾ inches; Height 1⅛ inches; ⅛ inch Holes.

Per Gross

No. 50—Five Hole; Weight per Gross 21 lbs..... **$19.00**
One Dozen in a Box

SELF-SETTING

These Traps Catch the Mice Alive, to Kill, Turn Them into a Pail of Water

Per Gross

No. 60—Red Stained Wood Frame, Blued Tin Front, Length 5¼ inches; Width 3¾ inches, Height 2⅛ inches; Weight per Gross 63 lbs..... **$36.50**
Half Gross in a Case

SECURITY

Made of Galvanized Steel; Oil Tempered Spring Wire and Coppered Wire; Splendid Mechanical Construction; Cannot Strike Finger or Foot either in Setting or Releasing; Hair Trigger prevents Stealing of Bait.

To Set; Cover Opening in Rig with Foot and Press Down. This Raises Hook of Trigger to Lock Foot Plate; will not Rust, Warp or Decay; Sanitary, Safe, Sure and Serviceable.

MOUSE Per Gross

No. SM—Made of Galvanized Steel; Oil Tempered Spring Wire and Coppered Wire; Size of Base 3¾x1½ inches; Weight per Gross 18 lbs..... **$9.50**
One Dozen in a Box

RAT

Per Gross

No. SR—Made of Galvanized Steel Oil, Tempered Spring Wire and Coppered Wire; Size of Base 6½x3 inches; Weight per Gross 90 lbs..... **$30.00**
One in a Box.

STEEL TRAPS

GENUINE NEWHOUSE

Best Quality Crucible Steel Springs, Warranted in Every Respect; Balance of Trap is a Mixture of Special Norway Iron. Entire Trap is Smoothly Finished and Each Part is Carefully Fitted, the Chain is Made from Flat Cut Steel and is Strong, Smooth and Flexible. Suitable for Use of Professional Trappers.

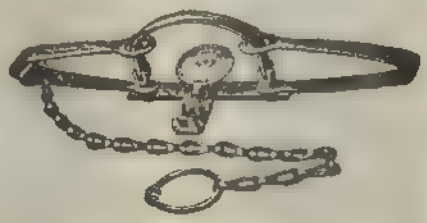
SINGLE SPRING, WITH CHAIN

Per Dozen

No. 0N —**Rat and Gopher;** Spread of Jaws 3½ inches; Weight per Dozen 7½ lbs..... **$4 48**
12 Dozen in a Case

No. 1N —**Muskrat, Skunk, Mink, etc.;** Spread of Jaws 4 inches; Weight per Dozen 10 lbs..... **5.26**
12 Dozen in a Case

No. 1½N—Mink and Fox; Spread of Jaws 4½ inches; Weight per Dozen 14 lbs..... **7.90**
25 Dozen in a Barrel



DOUBLE SPRING, WITH CHAIN

Per Dozen

No. 2N—Fox; Spread of Jaws 4⅞ inches; Weight per Dozen 18 lbs..... **$11 68**
15 Dozen in a Barrel

No. 3N—Otter; Spread of Jaws 5½ inches; Weight per Dozen 29 lbs..... **15.56**
10 Dozen in a Barrel

No. 4N—Beaver, Wolf and Coyote; Spread of Jaws 6½ inches; Weight per Dozen 38 lbs..... **18 34**
8 Dozen in a Barrel

SINGLE SPRING, WITH CHAIN

Per Dozen

No. 81N—For Muskrat, Skunk, Mink, etc.; Spread of Jaws 4 inches; Weight per Dozen 10 lbs..... **$6.12**
12 Dozen in a Case

SINGLE SPRING, WEBBED JAR, WITH CHAIN

Per Dozen

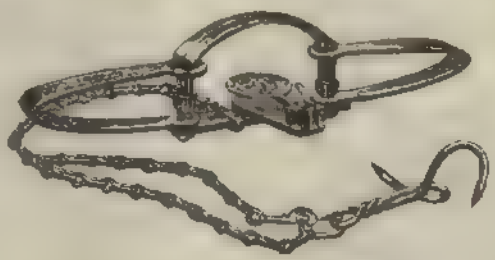
No. 81½N—For Muskrat, Skunk, Mink, etc.; Spread of Jaws 4⅝ inches; Weight per Dozen 16 lbs..... **$9.44**
22 Dozen in a Barrel

SINGLE SPRING, DOUBLE JAR, WITH CHAIN

Per Dozen

No. 91N—For Muskrat, Skunk, Mink, Fox, etc.; Spread of Jaws 5½ inches; Weight per Dozen 10½ lbs..... **$8 66**
31 Dozen in a Barrel

No. 91½N—For Muskrat, Skunk, Mink, Fox, etc.; Spread of Jaws 6½ inches; Weight per Dozen 16½ lbs..... **10 00**
20 Dozen in a Barrel



DOUBLE SPRING, WITH CHAIN

Per Dozen

No. 4½N—Wolf; Spread of Jaw 8 inches; Weight per Dozen 92 lbs..... **$44 16**
3 Dozen in a Barrel

DOUBLE SPRING, TOOTHED JAW

Per Dozen

No. 5N—Bear; Spread of Jaw 11¾ inches; Weight Each 19½ lbs..... **$133.38**
1 Dozen in a Barrel

DOUBLE SPRING, TOOTHED JAW

Per Dozen

No. 6N—Grizzly Bear, Lions, Tigers, Elephants, etc, Spread of Jaws 16 inches; Weight Each 43½ lbs..... **$811.22**
1-3 Dozen in a Barrel

COBBLING OUTFITS

HOME (40 ARTICLES)

Boot, Shoe, Rubber, Harness and Tinware Repairing

CONTENTS

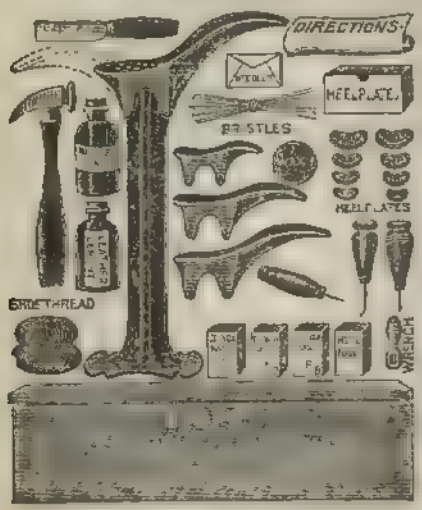
1 Iron Stand for Lasts.
1 Iron Last for Mens Work.
1 Iron Last for Boys Work.
1 Iron Last for Womens Work.
1 Iron Last—Children's Work.
1 Shoe Hammer.
1 Shoe Knife.
1 Peg Awl.
1 Peg Awl Haft.
1 Peg Awl Wrench.
1 Sewing Awl.
1 Sewing Awl Haft.
1 Stabbing Awl.
1 Stabbing Awl Haft.
1 Bottle Leather Cement.
1 Bottle Rubber Cement.
1 Ball Shoe Thread.
1 Ball Shoe Wax.
1 Bunch Bristles.
1 Pkg. Clinch Nails, 4/8 inch.
1 Pkg. Clinch Nails, 5/8 inch.
1 Pkg. Clinch Nails, 6/8 inch.
1 Package Heel Nails.
4 Pair Heel Plates, Assorted.
6 Harness Needles.
1 Harness and Saw Clamp.
1 Bar Solder.
1 Box Resin.
1 Piece Tin.
1 Copy Directions Cobbling.
1 Box Slotted Rivets, Asstd.
1 Rivet Holder.
1 Harness and Belt Punch.
1 Soldering Iron.
1 Copy, Directions Soldering.

Per Dozen Sets

No. 1—40 Articles, as Listed Above; Weight per Dozen Sets 183 lbs. $22.50

HOME (33 ARTICLES)

Boot, Shoe and Rubber Repairing



CONTENTS

1 Iron Stand for Lasts.
1 Iron Last for Mens Work.
1 Iron Last for Boys Work.
1 Iron Last for Womens Work.
1 Iron Last—Children's Work.
1 Shoe Hammer.
1 Shoe Knife.
1 Peg Awl.
1 Peg Awl Haft.
1 Peg Awl Wrench.
1 Sewing Awl.
1 Sewing Awl Haft.
1 Stabbing Awl.
1 Stabbing Awl Haft.
1 Bottle Leather Cement.
1 Bottle Rubber Cement.
1 Bunch Bristles.
1 Ball Shoe Thread.
1 Ball Shoe Wax.
1 Pkg. Clinch Nails, 4/8 inch.
1 Pkg. Clinch Nails, 5/8 inch.
1 Pkg. Clinch Nails, 6/8 inch.
1 Package Heel Nails.
4 Pair Heel Plates, Asstd.
1 Copy Directions. 6 Harness Needles.

Per Dozen Sets

No. 2—33 Articles, as Listed Above; Weight per Dozen Sets 150 lbs. $15.00

For General Boot and Shoe Repairing

JOKER (12 ARTICLES)

CONTENTS

1 Malleable Iron Stand for Lasts.
1 Malleable Iron Last for Mens Work.
1 Malleable Iron Last for Boys Work.
1 Malleable Iron Last for Womens Work.
1 Shoe Hammer.
1 Shoe Knife.
1 Peg Awl Haft.
1 Sewing Awl Haft.
1 Sewing Awl.
1 Package Clinch Nails, 5/8 inch.
1 Package Heel Nails, 5/8 inch.
1 Copy Directions.

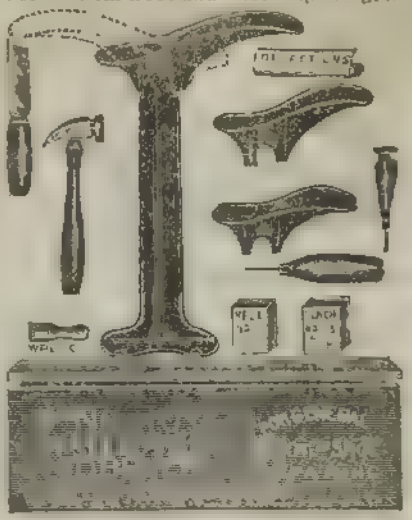
Per Dozen Sets

Joker—12 Articles, Listed Above; Weight per Dozen Sets 85 lbs..... $3.00

COBBLING OUTFITS

MALLEABLE COBBLER

For General Boot and Shoe Repairing; a Popular Seller with the Trade.



CONTENTS

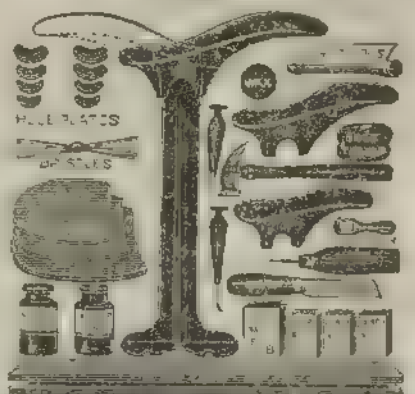
1 Malleable Iron Stand for Lasts.
1 Malleable Iron Last for Mens Work.
1 Malleable Iron Last for Boys Work.
1 Malleable Iron Last for Womens Work.
1 Steel Shoe Hammer.
1 Shoe Knife.
1 Peg Awl Haft, Leather Top
1 Peg Awl.
1 Peg Awl Wrench.
1 Sewing Awl Haft.
1 Sewing Awl.
1 Package Clinch Nails, 5/8 inch.
1 Package Heel Nails, 5/8 inch.
1 Copy Directions.

Per Dozen Sets

No. 10—13 Most Used Articles, as Listed Above; Weight per Dozen Sets 130 lbs..... $30.00

FIRESIDE COBBLER

General Boot, Shoe and Rubber Repairing



CONTENTS

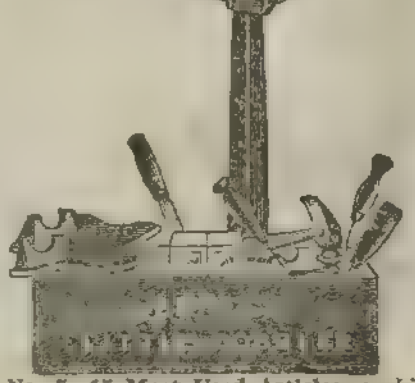
1 Iron Stand for Lasts.
1 Iron Last for Mens Work.
1 Iron Last for Boys Work.
1 Iron Last for Womens Work
1 Pair Mens Half Soles.
1 Pair Boys Half Soles.
1 Pair Womens Half Soles.
1 Sewing Awl.
1 Sewing Awl Haft.
1 Stabbing Awl.
1 Stabbing Awl Haft.
1 Pegging Awl
1 Pegging Awl Haft.
1 Pegging Awl Wrench.
1 Shoe Knife.
1 Shoe Hammer.
1 Bottle Leather Cement.
1 Bottle Rubber Cement.
4 Pair Heel Plates
1 Package Peg Nails.
1 Pkg. Clinch Nails, 4/8 inch.
1 Pkg. Clinch Nails, 5/8 inch.
1 Package Tacks.
1 Bunch Bristles
1 Ball Shoe Thread. 1 Ball Shoe Wax. 1 Copy Directions.

Per Dozen Sets

No. 8—29 Articles and Three Pair of Half Soles, as Listed Above; Weight per Dozen Sets 144 lbs..... $23.00

PERFECT LITTLE COBBLER

Boot, Shoe and Leather Repairing. Most Popular Seller with the Trade



CONTENTS

1 Iron Stand for Lasts.
1 Last for Mens Work.
1 Last for Boys Work.
1 Last for Womens Work.
1 Shoe Hammer.
1 Shoe Knife.
1 Peg Awl.
1 Peg Awl Haft.
1 Peg Awl Wrench.
1 Sewing Awl.
1 Sewing Awl Haft.
1 Stabbing Awl.
1 Stabbing Awl Haft.
1 Package Heel Nails.
1 Package Clinch Nails.
1 Copy Directions.

Per Dozen Sets

No. 5—15 Most Used Articles, as Listed Above; Weight per Dozen Sets 120.. lbs..... $9.50

Each Outfit in a Wooden Box

Iron Crossing Signs

Newton's Improved Train Order Signal

The simplest but most efficient of the many devices for signaling orders to trains by day or night.

It is entirely automatic and positive in its working, having no wires, ropes or chains to get misplaced or out of order

The arrangement of the lamp support is such that the lamp can only be put on in one way, thus assuring the proper position of signal lights

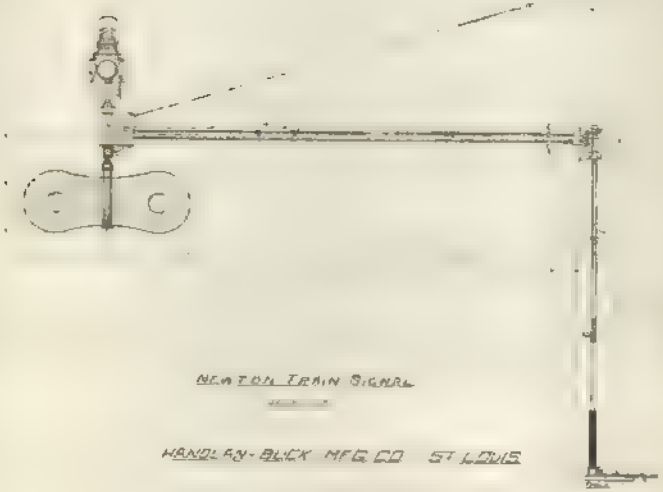
The operator cannot possibly make a mistake. All working parts are carefully and strongly made and fully protected from the action of rain, snow or dust.

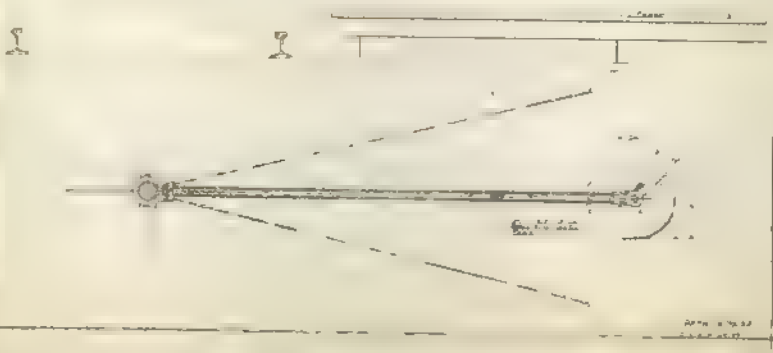
References to roads using the signals and full information furnished upon application.

Special blueprint furnished; see cut next page.

No. 52

Newton's Improved Train Order Signal





Newton Car Replacers

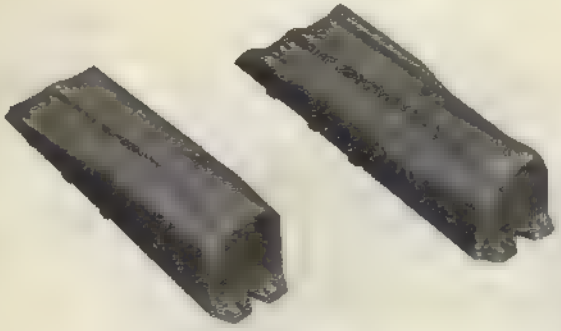


Fig 98
Divided Type

Fig 9
Solid Type

The Newton Car Replacers are made in two types, divided and solid types, therefore protecting the switch point from being bent and the switch thus rendered useless. One of the important features for special attention is the grooved design of the inside replacer, which protects the flange of the wheel by allowing the tread to first engage the replacer while mounting

The undivided type weighs 175 pounds per pair; the divided type weighs 220 pounds per pair

Fewing's Car Replacers

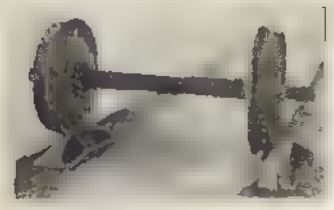


Fig 100

Fewing's frogs are light enough to be handled by one man, they are guaranteed to carry the weight of any locomotive.

60-pound Type, for 60-pound rail and under, weight 125 pounds per pair

A Type, for 85-pound rail and under, weight 186 pounds per pair

B Type, for 100-pound rail and under, weight 225 pounds per pair

High B Type, special for 6-inch rail, weight 234 pounds per pair

Interurban Type, special for 85 pound T rail and under, weight 125 pounds per pair.

The Alexander Car Replacers

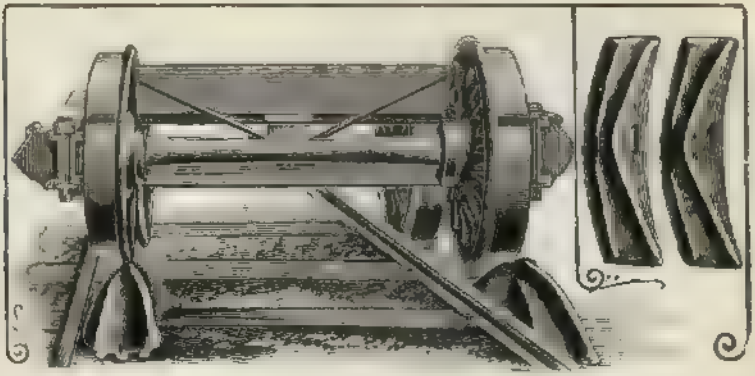


Fig. 101

Fig. 102

No. 1 Replacer, weight 194 pounds per pair, base on rail 5 to 6 inches high ..... per pair $72 00
No. 2 Replacer weight 158 pounds per pair, base on rail 4 to 5 inches high ..... per pair 72 00
No. 3 Replacer made of ¾ inch steel plate for Electric Motors, Mine Engines, Electric Cars and light equipment ..... per pair 56 00
No. 1 Extra Heavy, made of ⅞ inch plate, weight 242 pounds per pair same rail as Standard No. 1 ..... per pair 88 00

DISCOUNT

Snow Car and Locomotive Replacers

Outside Frog

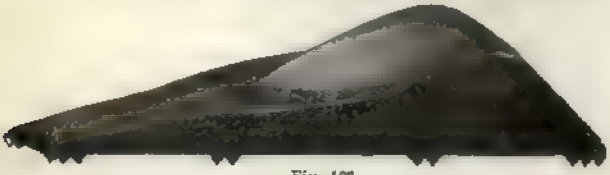


Fig. 103

No. 1A. Made of Basic Open Hearth Steel weight 235 pounds per pair, length 36 inches suitable for wreck cars and 90 to 100 pound rails.

Inside Frog

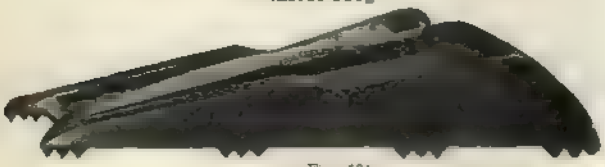


Fig. 104

No. 1. This is our Standard Replacer for general use with heavy engines and cars. Made of Basic Open Hearth Steel; weight 210 pounds per pair; length 36 inches. The Maximum height is at end of replacers, thus reducing the grade by one-half up which wheels must mount in re-railing.

New Haven Clock Co.'s Fine Celebrated Banjo Clocks

Suitable for the tastefully furnished Home, Library or Den. This style of clock has been in demand ever since first brought out by Edward K. Willard over a century ago. Its popularity is not to be wondered at, as the artistic lines of the case and the general scheme of ornamentation leave nothing to be desired by anyone wishing a really beautiful clock. The different patterns especially harmonize with furnishings of the Colonial period and the various sizes permit of their being placed in large or small compartments as may be most appropriate. The finish of the case is in keeping with the high quality of the clocks and the movements used are finely made and are excellent timekeepers.

PRICES EACH

MINATURE BANJO CLOCK

WILLMAR No. 2

8-Day Lever Timepiece. Height, 17½ inches. Width, 5 inches. Solid Mahogany Case with Decorated Glass Panel. Dial, 3½ inch Porcelain with Beveled Glass.

No. 5307 Each .$15.50

WINDROW, No. 2

8-Day Lever Timepiece. Height, 23½ inches. Width, 7⅜ inches. Solid Mahogany Case with Cast Metal Side Ornaments and Decorated Glass Panels. Dial, 5-inch Porcelain with French Cast Sash and Beveled Bowed Glass.

No. 5308 Each $31 00

MIBATURE BANJO CLOCK

WILLIS No. 2

8-Day Lever Timepiece. Height, 17¾ inches. Width, 5 inches. Solid Mahogany Case with Cast Metal Side Ornaments and Decorated Glass Panels. Dial, 3½-inch Porcelain with Beveled Glass.

No. 5309 Each..$17 35

WILLARD

30-Day Spring Timepiece. Height, 44½ inches. Width, 12½ inches. 8-inch Silver Finish Dial. Decorated Glass Panels. Ornamental Cast Metal Side Pieces, Gold Plated. Solid Mahogany Case.

No. 5310 Each $64 00

WARDROP

8-Day Lever Timepiece. Height, 24¼ inches. Width 9 inches. Solid Mahogany Case with Cast Metal Side Ornaments and Decorated Glass Panels. Dial, 5-inch Porcelain with French Cast Sash and Beveled Bowed Glass.

No. 5311 Each $31 00

WILSON

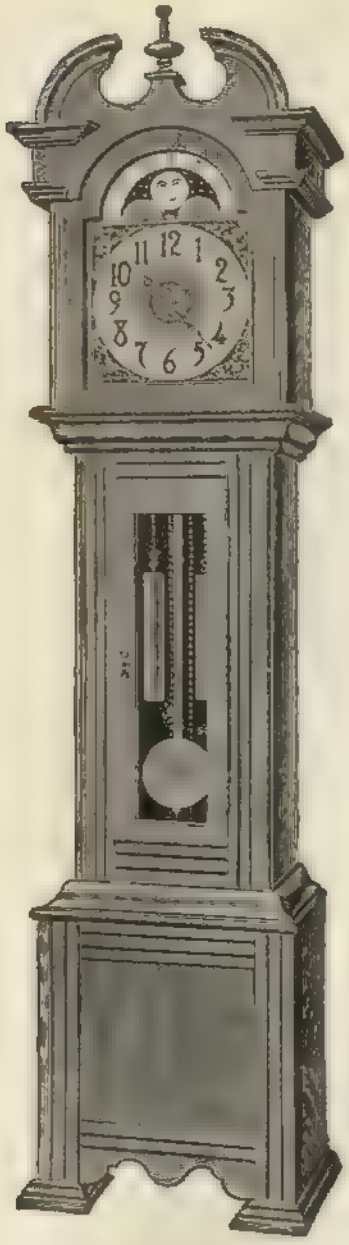
30-Day Spring Timepiece. Height, 40½ inches. Width, 13½ inches. 8-inch Silver Finish Dial. Decorated Glass Panels. Ornamental Cast Metal Side Pieces, Gold Plated. Solid Mahogany Case.

No. 5312 Each.....$64.00

HIGHEST GRADE REGULAR HALL AND CHIME HALL CLOCKS

8-Day Weight. Half-hour Strike, Cathedral Gong. 12-inch Dial. Solid Oak, Mahogany Finish and Solid Genuine Mahogany Cases.

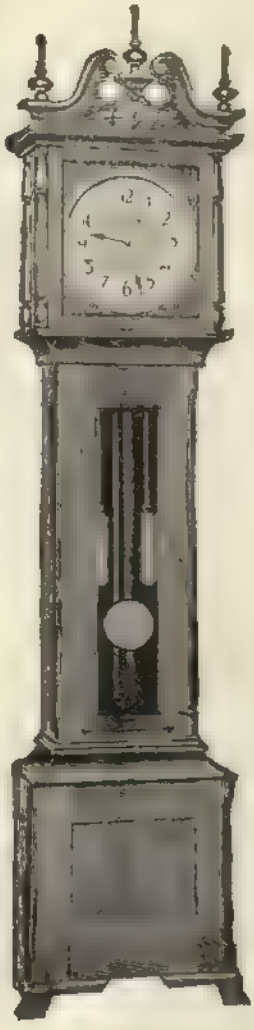
PRICES EACH



HALL CLOCK No. 78
Manufactured and Guaranteed by The Waterbury Clock Co

Weight, 8 Day, Chain Weight, Half-hour Strike, Gong, Moon's Phases, Seconds Hand, 12-inch Dial and Silver Dial. Height, 84 inches. Width, 21½ inches.

No. [illegible] Finish $176.00



WILMINGTON
Manufactured and Guaranteed by The New Haven Clock Co.

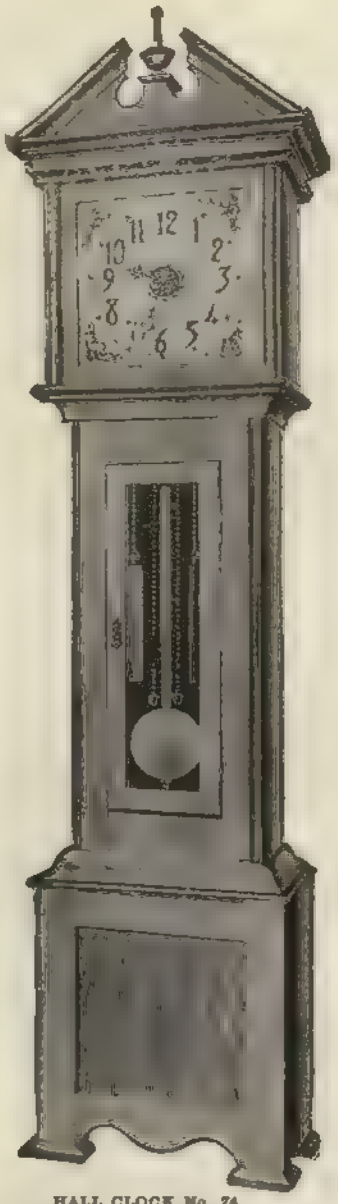
Height, 91 inches. Width, 21¼ inches. Wood Top Ornaments, Dial [illegible] Cases Are [illegible] Weight, Half-hour Strike, Cathedral Gong.

No. 5314 Antique Oak, each $149.35
No. 5315 Mahogany, each, . 149.35

WILMINGTON
Manufactured and Guaranteed by The New Haven Clock Co.

Height, 88 inches. Width, 21 inches. Dial Finish Silver [illegible] Case Antique Oak or Mahogany. Weight, 8 Day Weight, Half-hour Strike, Cathedral Gong.

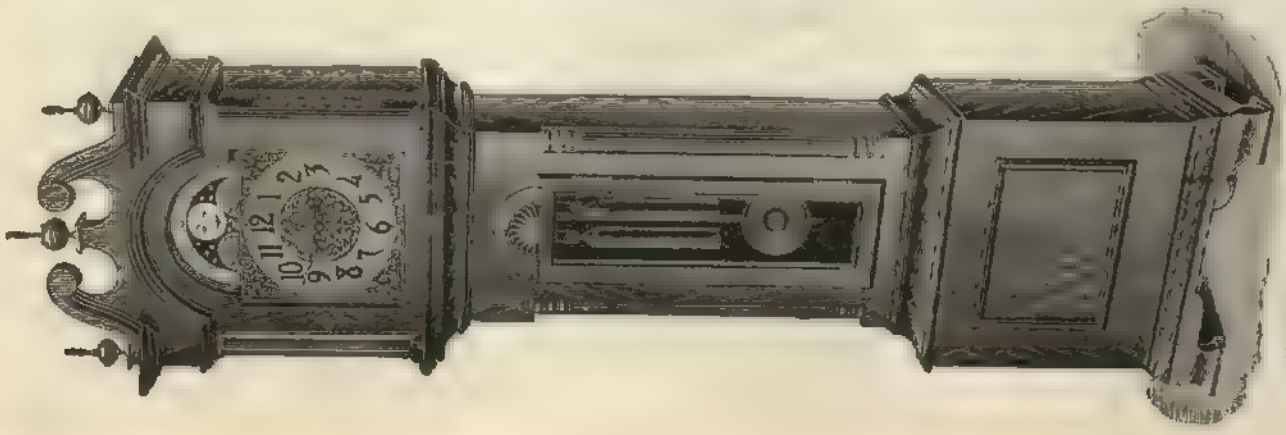
No. 5316 Antique Oak, each $184.00
No. 5317 Mahogany, each. . 184.00



HALL CLOCK No. 74
Manufactured and Guaranteed by The Waterbury Clock Co

Oak or Mahogany Finish, 8 Day, Chain Weight, Half-hour Strike, Gong, Beat Seconds Hand, 12-inch Dial, Silver Dial, Height, 88 inches. Width, 22½ inches.

No. 5318 Oak, each . . . . . $ 29.00
No. 5319 Mahogany Finish, each . . 125.00



HALL CHIME CLOCK No. 601
Manufactured and Guaranteed by The Waterbury Clock Co

Case of Mahogany Finish, Weight Driven, Chime Changes on [illegible] Bells, Weight Driven, Chime Strikes on [illegible] Bells, Seconds Hand, Silver Dial, Height, [illegible] Inches. Width, 20½ inches. Depth, [illegible] Inches.

No. 5562 Oak, each $17.45
No. 5563 Mahogany, each 17.75

New Haven and Seth Thomas Clock Co.'s Fine Office Clocks

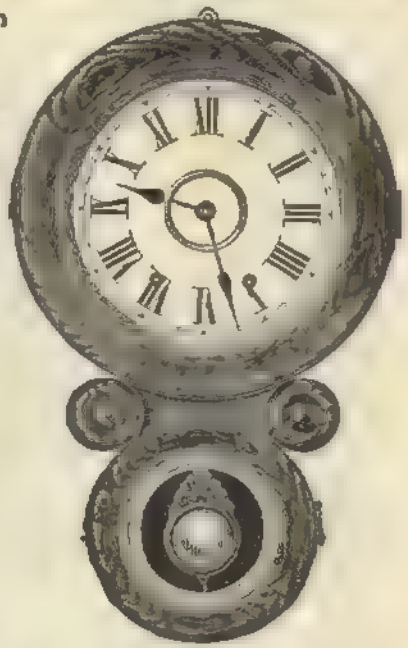
Eight-Day Time Guaranteed Accurate Timekeepers Prices Each

BRANTFORD (New Haven)

12-inch Dial, Height 27½ inches, Width, 17½ inches. Case, Solid Oak, 8-Day Time
No. 5216 Each $15 40

DROP OCTAGON (New Haven)
Solid Oak

Solid Oak, 8-inch Dial, Height 18½ inches, Width 12½ inches, 8-Day Time
No. 5217 Solid Oak, 12-inch Dial, ... $11 60
Solid Oak, 12-inch Dial, Height 24½ inches, Width 14½ inches, 8-Day Time
No. 5218 12-inch Dial, each $13 40

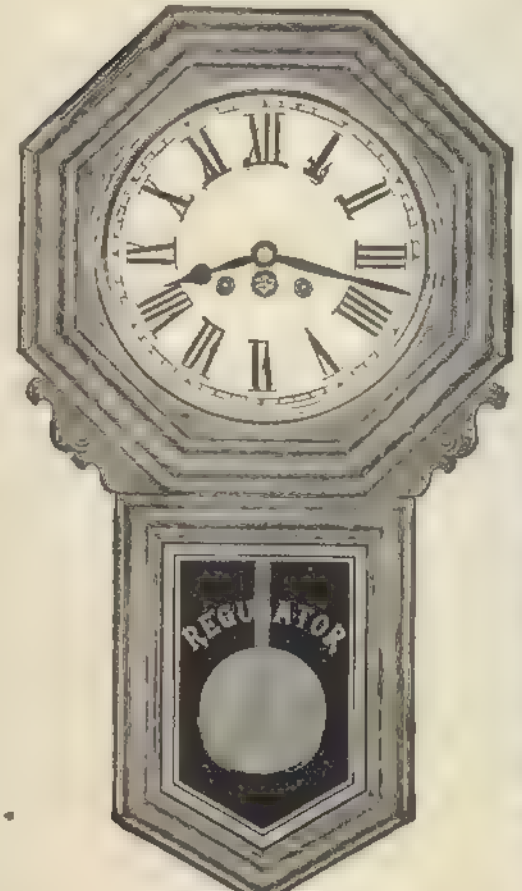


SAXON (New Haven)

12-inch Dial, Height 34 inches, Width 14 inches. Case Regulator, 8-Day Time
No. 5219 Each $14 95

ENGINE LEVER (Seth Thomas)

Metal Case, Oxidized or Nickel Plated, 6-inch Dial, Hinged Bezel, 12-hour Dial, Time
No. 5220 Each $18 30

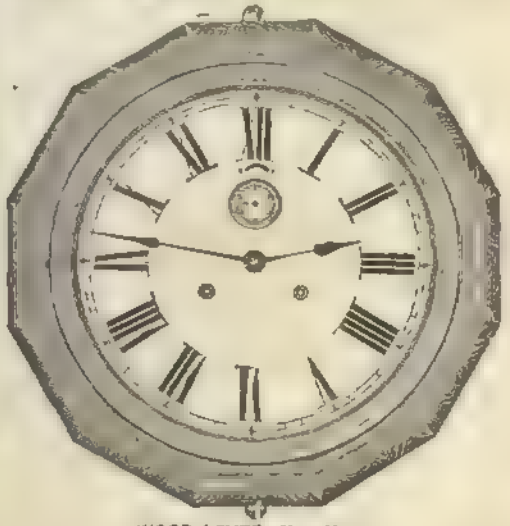


ERIE (New Haven)

Height, 32½ inches. Width, 18½ inches. Dial, 12 inches. Case, Solid Oak, Antique Finish. 8-Day Time.
No. 5221 Each $13 75

REFEREE (New Haven)

Height 35½ inches. Width 16 inches. Dial 12 inches. Case Solid Oak, 8-Day Time
No. 5222 Each $14 75



WOOD LEVER (New Haven)
Solid Oak or Mahogany

Solid Oak or Mahogany, 8-inch or 12-inch Dial

No. 5223	Solid Oak, 8-inch Dial, each	$11 [illegible]
No. 5224	Solid Oak, 12-inch Dial, each	14 00
No. 5225	Mahogany, 8-inch Dial, each	11 [illegible]
No. 5226	Mahogany, 12-inch Dial, each	14 00

Waterbury Clock Co.'s Fine Office and Store Clocks and Regulators

Guaranteed Accurate Time-Keepers. PRICES EACH

HALIFAX—Oak

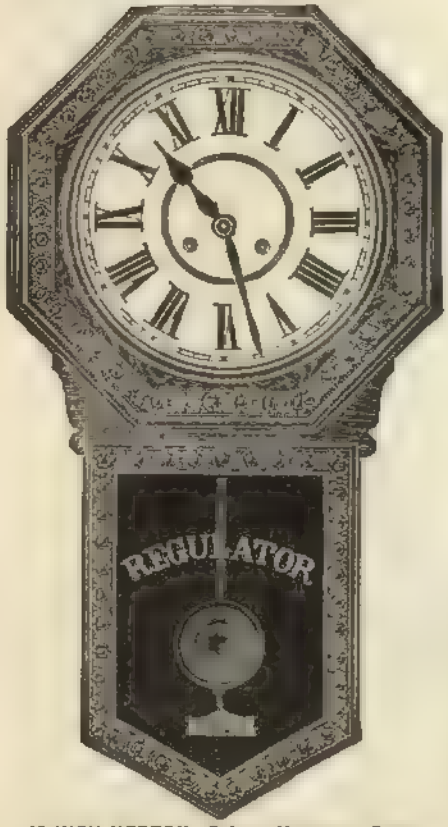
No 5225 8 Day, Time, each $14 80
No 5226 8 Day, Spring Strike, Gong, each 17 75
No 5227 8 Day, Half-hour Strike, Gong, each
No 5228 8 Day, Calendar, Gong, each
Solid Round Dial. Height, 42 inches.

BAHIA Mexican Veneered

No 5229 8 Day, Time, each $11 10
No 5230 8 Day, Half-hour Strike, each 13 10
Alarm Additional, each 1 00
No 5231 8 Day, Time, Calendar, each 12 05
No 5232 8 Day, Half-hour Strike, Calendar, each 14 05
10 inch Dial. Height, 22 inches

ETON—Oak

No 5233 8 Day, Time, each $20 30
No 5234 8 Day, Spring, Half-hour Strike, Gong, each 28 20
8 inch Dial. Height, 30½ inches. Width, 15 inches.

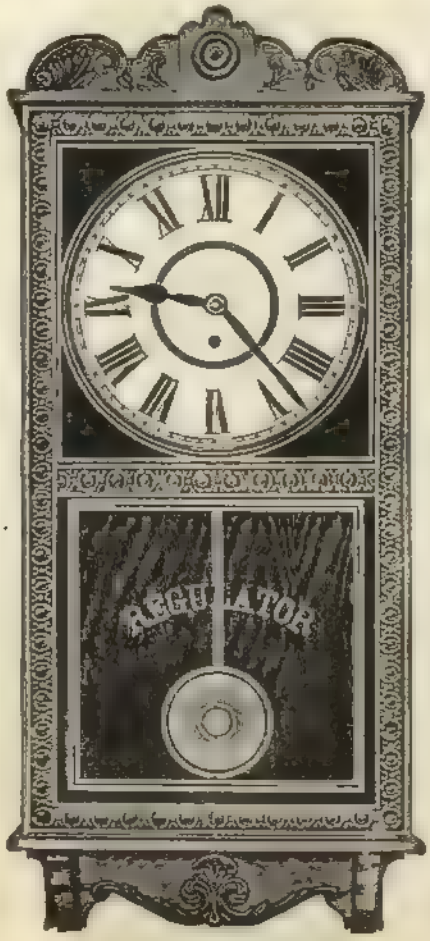


12 INCH HERRON—Oak or Mahogany Finish

No 5235 8 Day, Time, each $12 70
No 5236 8 Day, Half-hour Strike, each 14 60
No 5237 8 Day, Time, Calendar, each 13 65
No 5238 8 Day, Half-hour Strike, Calendar, each 15 60
12 inch Dial. Height, 32 inches.

10 INCH HERON—Oak

No 5239 8 Day, Time, each $11 60
No 5240 8 Day, Half-hour Strike, each 13 60
No 5241 8 Day, Time, Calendar, each 12 60
No 5242 8 Day, Half-hour Strike, Calendar, each 14 60
10 inch Dial. Height, 30 inches.



CRANE—Oak or Mahogany Finish

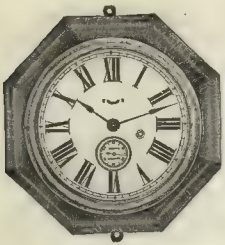
No 5243 8 Day, Time, each $14 00
No 5244 8 Day, Half-hour Strike, each 16 20
No 5245 8 Day, Time, Calendar, each 15 00
No 5246 8 Day, Half-hour Strike, Calendar, each 17 20
12 inch Dial. Height, 37 inches. Width, 16½ inches.

ADMIRAL—Oak

No 5247 8 Day, Time, each $14 55
No 5248 8 Day, Half-hour Strike, each 16 50
No 5249 8 Day, Half-hour Strike, Gong, each 15 50
No 5250 8 Day, Time, Calendar, each 15 50
No 5251 8 Day, Half-hour Strike, Calendar, each 17 45
No 5252 8 Day, Half-hour Strike, Gong, Calendar, each 13 80
No 5253 30 Day, Time with Second Hand, each 18 40
12 inch Dial. Height, 32 inches.

WALL CLOCKS.

SUITABLE FOR OFFICE, SCHOOL ROOM OR WORK SHOP.



SETH THOMAS.

Each

Wood Lever, No. 8—8 inch dial; 8 day time movement; old oak polished case $17.90

Wood Lever, No. 12—As No. 8, but has 12 inch dial 21.00

NEW HAVEN.

Each

Branford—Height, 27½ inches; width 17½ inches; 12 inch dial; solid oak case; 8 day time $14.50

Branford, Calendar—As above, but with calendar fitting on dial 15.10

SETH THOMAS.

Each

No. 12—Drop octagon; 8 day time; oak case; dial, 12 inches; height, 23½ inches $18.90

AUTOMOBILE CLOCKS.

KEYLESS CLOCK CO'S.

Each

No. 12—8 day; rim wind and rim set; nickel rim and case; 2¼ inch black dial; silver numerals and hands; is attached to cowl board by 3 small screws; does not require key; height, 2¼ inches $16.12

RIM WIND AND RIM SET.

Nickel finish rim; dull black case; plain crystal silvered metal dial, black arabic figures; attached to dash by means of three screws; winds and sets by rim; does not require key.

Each

No. 9SD—8 day; rim wind and rim set; suitable for all cars with cowl dash; 2¾ inch dial; height, 2½ inches . $17.62

No. 9BD—Same as No. 9SD, but black dial, silver numerals and hands 17.62

NEW HAVEN.

Each

Referee—Eight-day, spring time; oak case; dial, 12 inches; height, 35½ inches; width, 16 inches $16.00

NEW HAVEN.

Each

Rutland—Height, 48 inches; width, 19½ inches; 10-inch dial; solid oak case; 30-day time; calendar fitting . $30.00

CHIME CLOCKS.

WESTMINSTER CHIMES.

With new three-train movements, chiming each quarter-hour and striking the hours on rods. Fitted with five perfectly tuned rods or the famous Westminster chimes played every fifteen minutes and the hour struck on "Sonora" patented resonated bells. This patented chime mechanism as used in these clocks is the result of much thought and experiment in adopting laws for resonated bells, to limits of space, price and other commercial requirements.

SETH THOMAS.

No. 75.

Each

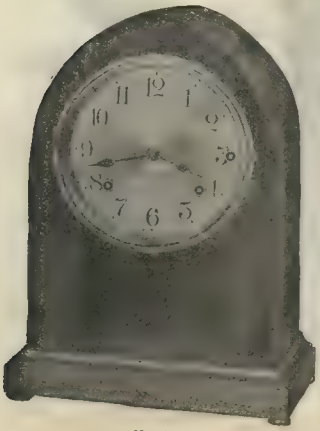
No. 75 R. B. N.—Chime; solid mahogany case; height, 9¾ inches; width, 22½ inches; depth, 6⅞ inches; has 6-inch silver dial with bronze numerals; cast sash; convex beveled glass; fitted with new three-train movement, chiming each quarter-hour and striking the hours on perfectly tuned rods; weight of clock boxed, 30 lbs. **$126.00**

No 57.

Each

No. 57—Westminster "Sonora" Chime; quarter hour chime from deep toned rods; mahogany case, fine figured pattern; 6 inch silvered dial; height, 11 inches; length, 17½ inches..... **$89.00**

Weight of clock boxed, 30 lbs.



No. 14.

Each

No. 14—Westminster "Sonora" Chime; mahogany case; height, 14 inches; 6 inch convex etched silver dial; brass sash with convex beveled glass; quarter hour chime on four bells..... **$73.50**

Weight of clock boxed, 31 lbs.

New Style Locomotive Oil Headlight

No. 1531C

18-inch

Satisfactory to those who have adopted it as standard

The style illustrated is designed especially for those who find it necessary to provide a more efficient oil headlight and has been found satisfactory wherever introduced—is a plain pattern with front and side doors, correctly poportioned—made of heavy sheet steel electrically welded and will withstand the shocks and jars incident to modern traffic. Is furnished as in others shown with our standard front glass holder ring, a simple and efficient device enabling quick replacement of broken front glass. The reflector and burner used are features designed especially to produce a sufficient volume of light

Weights and Measurements for Shipment

	Net Weight Lbs	Gross Weight Lbs.	Each Box Inches	Cubic Feet
Crated one in crate—domestic. . ..	83	138	.....	
Boxed one in box domestic	83	150		
Boxed one in box export	83	175	37 x 29 x 29	18 01

Specifications of Headlight

Case—Heavy sheet steel, electrically welded height over all, 34 inches depth over all, 23½ inches; width over all, 24 inches

Steel Bottom—depth 10½ inches width, 21½ inches, front glass diameter, 19 inches reflector copper silver plated No 61 18 inches inside diameter, 13¾ inches deep focal 1½ inch, burner No 106 page 229, chimney No 93 or 94

Quotation covers headlight as shown front cover or curtain extra when ordered

For price, see page 228

New Style Locomotive Oil Headlight

No. 1634

18-inch

Same as shown on opposite page, but equipped with side number frames

To those whose requirements demand a headlight with facilities for displaying engine numbers, and who find themselves interested in selection of suitable pattern to meet the recommendation already set forth, may rely on this style to give perfect satisfaction. Is constructed in the same workmanlike manner—provided with both front and side door, and also embodies the well known angle side number boxes enabling the towerman or others interested to discern the engine number in advance of the time when the locomotive is passing

Weights and Measurements for Shipment

	Net Weight Lbs.	Gross Weight Lbs.	Each Box Inches	Cubic Feet
Crated one in crate—domestic	87	140		
Boxed one in box domestic	87	155		
Boxed one in box export	87	185	36 x 36 x 26	19 50

Specifications of Headlight

Case heavy sheet steel, electrically welded height over all 34 inches, depth over all, 24 inches, width over all, 31½ inches;

Steel bottom—depth, 19½ inches, width 21½ inches front glass diameter, 19 inches reflector, copper silver plated No 61 18 inches inside diameter, 13¼ inches deep focal, 1½ inch, burner No 10b, page 229, chimney No 93 or 94

Quotation covers headlight as shown front cover or curtain extra when ordered

For price, see page 228

SEWING MACHINES

*NEW VASSAR

Head—Full High Arm, Handsomely Finished in Hand Rubbed Black, Decorated in Four Colors, Including Gold.
Bed Plate—Finished to Correspond with the Balance of the Table.
Take-Up—Operates with a Roller Operating on the Periphery of the Shaft Head and has Perfect Control of the Thread in Forming the Stitch.
Shuttle—Large Size, Self threading, of Best Steel, Highly Polished
Needle Bar—Is Capped, which Prevents the Dust from Settling on the Wearing Parts and Conceals the Movement of the Needle Bar from the Eyes of the Operator.
Needles—No. 2.
Tension—On Top of Head; a Slight Pressure of Finger Releases it.
Shuttle Lever—Is Attached to the Bed Plate by a Strong Stud, Fitted with a Set of Finely Adjusted Cone Point Bearings
Roller Feed—The Feed is Fitted with a Hardened Steel Roller Bearing.
Stitch Regulator—Conveniently Situated on the Bed Plate.
Automatic Bobbin Winder—Is Direct Driven, Highly Nickeled
Automatic Lift—Operated with the Morton Steel Roller Chain Over a Steel Pulley, and is Adjustable.
Stand—New Ribbon Design, Baked on Black.
Banding Wheel—Fitted with Two Sets of **Ball Bearings**, Channeled for the Belt which will not come off.
Pitman Rod—Nickeled Steel with **Ball Bearings** at each End.
Connecting Rod—Is of Wrought Steel instead of Cast Iron.
Cabinet Work—Is of Neatly Finished Golden Oak, Artistically Carved.
Guarantee—A Written Guarantee for Ten Years with Each Machine.
Attachments—Complete Set, including Accessories, in Neat Enameled Steel Box.

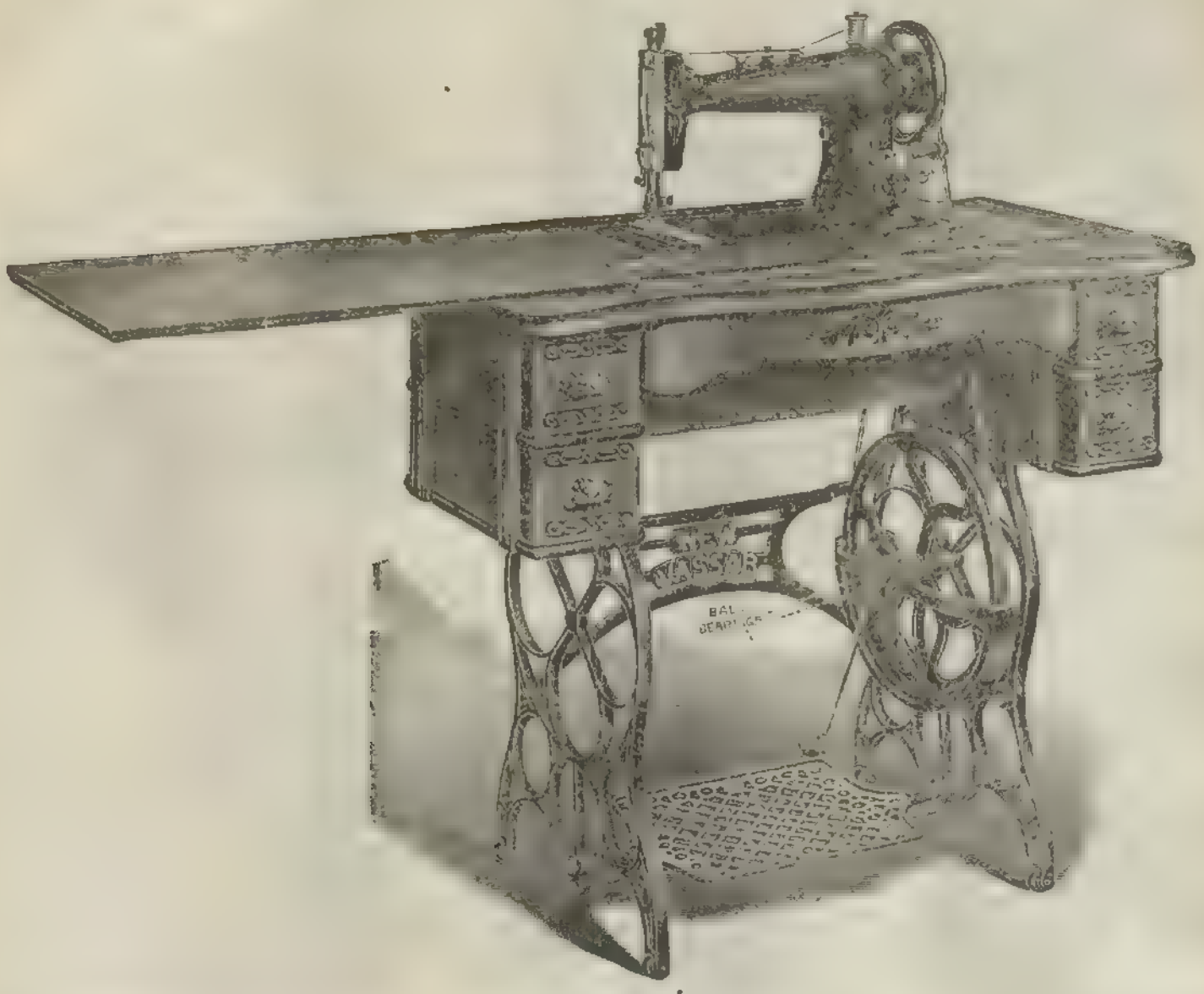
Each

No. NVA5—Five Drawer Cabinet; Weight 99 lbs. Crated 135 lbs. $38 00

One in a Crate

SEWING MACHINES

*NEW VASSAR



Head—Full High Arm; Handsomely Finished in Hand Rubbed Black; Decorated in Four Colors, Including Gold

Bed Plate—Flush with the Bed of the Table

Take Up—Operates with a Roller Operating on the Periphery of the Shaft Head and has Perfect Control of the Thread in Forming the Stitch.

Shuttle—Large Size, Self Threading, of Best Steel Highly Polished.

Needle Bar—Is capped, which Prevents the Dust from Settling on the Wearing Parts, and Conceals the Movement of the Needle Bar from the Eyes of the Operator.

Needles—No. 2.

Tension—On top of Head; a Slight Pressure of Finger Releases it.

Shuttle Lever—Is attached to the Bed Plate by a Strong Stud Fitted with a Set of Finely Adjusted Cone Point Bearings.

Roller Feed—The Feed is Fitted with a Hardened Steel Roller Bearing

Stitch Regulator—Conveniently Situated on the Bed Plate

Automatic Bobbin Winder—Belt Driven, Highly Nickeled

Head Lift—Head does not Lift with a Lift but is Operated by Hand.

Stand—New Ribbon Design, Enameled with Baked On Black.

Banding Wheel—Fitted with Two Sets of **Ball Bearings** Channeled for the Belt, which will not come off.

Pitman Rod—Nickeled Steel, with **Ball Bearings** at Each End.

Connecting Rod—Is of Wrought Steel instead of Cast Iron.

Cabinet Work—Is of Neatly Finished Golden Oak, Artistically Carved.

Attachments—Complete Set, including Accessories, in Neat Enameled Steel Box

Guarantee—A Written Guarantee for Ten Years with Each Machine

	Each
No. NVHL—Five Drawer Cabinet: Weight 96 lbs.; Crated 130 lbs.	$36 00

One in a Crate

New York Blasting Machines

Fig. 327

Fig. 328

Fig. 329

Front and Rear Sectional Views of a No. 4 New York Blasting Machine

They are modern and practical in construction, design and principle. They are the latest approved push-down rack-bar type generating their own electricity

Machine No	Firing Capacity	Price
1	10 Electric blasting caps	$16 50
2	15 Electric blasting caps	17 50
3	30 Electric blasting caps	25 00
4	50 Electric blasting caps	37 50
6	100 Electric blasting caps	90 00
7	200 Electric blasting caps	120 00

Edson Trench Pumps

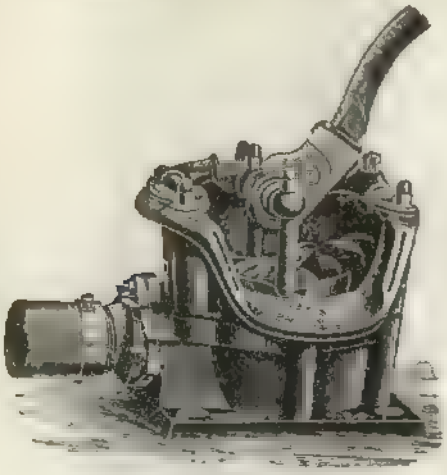


Fig. 342

Side Inlet Pump

These pumps are used by city and town sewer departments, waterworks installations and bridge contractors. Will pump water containing sand, gravel, sewage matter, etc., without perceptible wear.

Made to connect with suction hose

Size	Length of Stroke Inches	Capacity Per Stroke Gallons	Diameter of Suction Inches	Total Weight Complete Pounds	Price
No. 2	2¾	½	2½	112	$19 00
No. 3	3	1	3	185	24 00
No. 4	4	2	4	287	35 00

Galvanized Iron Suction Pumps

Diameters: 3-inch, 3½-inch, 4-inch, 4½-inch, 5 inch

Any lengths

Prices on Application

RAILROAD LANTERNS

*NORLEIGH DIAMOND

Burn Signal Oil. These Lanterns are made for extreme severe usage. They are the best railroad lanterns made.

Cut shows top of Dome of the Norleigh Diamond Railroad lanterns.

*NORLEIGH DIAMOND

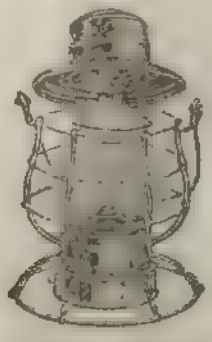
Double Up and Down Wires

Heavy IX AA Quality Re-dipped Charcoal Tin; Ventilated Hinged Top; Double Guard with Double Up and Down Wires; Bayonet Catch; Brass Burner with ⅝ inch Wick Inserted; Wick Raiser Inside of Globe; No. 39 Clear Glass Railroad Globe; Oil Capacity Sufficient for 24 Hours' Use; Height with Bail Down 10½ inches; Diameter of Base 6¾ inches; 8 inch Bail Attached to Wire Guard.

Per Dozen

No. 39—With Flanged Tin Base; Weight per Dozen 45 lbs..... **$27.50**

One Dozen in a Case



*NORLEIGH DIAMOND

Double Up and Down Wires

Heavy IX AA Quality Re-dipped Charcoal Tin; Ventilated Hinged Top; Double Guard with Double Up and Down Wires; Bayonet Catch; Brass Burner with ⅝ inch Wick Inserted; Wick Raiser Inside of Globe; No. 39 Clear Glass Railroad Globe; Oil Capacity Sufficient for 24 Hours' Use; Height with Bail Down 10½ inches; Diameter of Base 6¾ inches; 8 inch Bail Attached to Wire Guard.

Per Dozen

No. 99—With Open Wire Base; Weight per Dozen 45 lbs..... **$29.00**

One Dozen in a Case

CAR INSPECTORS LANTERNS

*NORLEIGH DIAMOND

*NORLEIGH DIAMOND

With Coal Oil Burner, but will Burn Signal Oil.

Heavy IX AA Quality Re-dipped Charcoal Tin; No. 1 Long Cone Brass Burner with ⅝ inch Wick Inserted; Bright Tin Hood, 9 inches Diameter, 6 inches Deep with 5 inch Silvered Glass Reflector; No. 0 Clear Glass Globe.

Per Dozen

No. C—Height 15 inches; Diameter of Base 7 inches; Heavy Wire Bail 5 inches High; Heavy Tin Bossed Handle; Oil Capacity Sufficient for 20 Hours' Use; Weight per Dozen 64 lbs..... **$28 00**

Half Dozen in a Case

No. R—Extra Silvered Glass Reflectors, 5 inches; for No. C Lanterns; Weight per Dozen 5 lbs..... **$5.50**

Half Dozen in a Box

ELECTRIC LANTERNS

SUPERIOR

A general utility Lantern. Just the thing for emergencies, as it can be quickly Lit by pushing Contact Switch at Bottom of Lantern. Gives a Clear White Light. Furnished with 3½ volt Bulb, but without Battery, see No. 1030 shown below.

Per Dozen

No. 60E—Heavy Quality Re-dipped Charcoal Tin; Double Guard with Extra Heavy up and down Braces; Clear Glass, Railroad Globe; Height 9¼ inches; Diameter Base 5 inches; Weight per Dozen 20 lbs..... **$29.00**

One in a Box

BATTERIES FOR No. 60E LANTERNS

Will Burn for 12 hours Continuous or 24 hours intermittent.

Per 100

No. 1030—Three Cell; Weight per 100, 77½ lbs..... **$54.00**

Loose

BULBS FOR No. 60E LANTERNS

Per 100

No. 1193—3½ Volt..... **$24.00**

Loose

VEHICLE LANTERNS

★DIAMOND

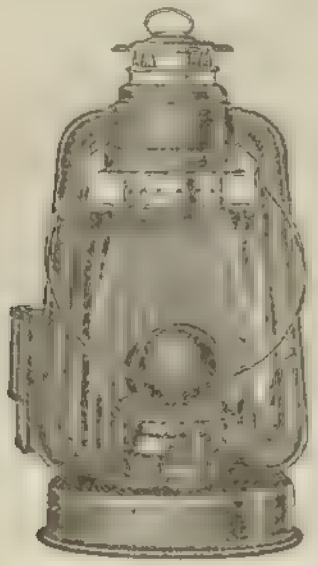
Red Rear Signals

Beautiful Design; Durably Made; Finely Finished; Black Japanned; Few Parts and Easily Cleaned; Fount holds Sufficient Oil to Burn 25 Hours; 5¾ inch Heavy Beveled Plate Lens; Silvered Reflector will not Tarnish; Diamond Driving Lamp Burner; ⅝ inch "A" Wick.

Complete with Dust Attachment.

	Per Dozen
No. JD—Height with Bail down 12 inches; Diameter of Base 5 inches; Weight Dozen 46 lbs.....	$76 00

Half Dozen in Case



SIGNALITE COLD BLAST

Designed especially for Business Vehicles; Shows a clear White Light in Front and a Red Warning in the Rear; Fulfills the Legal requirements of all States pertaining to the carrying of Lights on Horse-drawn Vehicles at night; Tubular; 12 inches High; made of IXAA Tin Plate, Black Enameled; Fitted with No. 1 Cold Blast Burner for ⅝ inch "A" Wick; Cold Blast Globe; Fount holds Oil to burn 14 to 16 hours; Produces 10 Candle Power Light which is magnified to an extreme degree by the Powerful Bull's Eye Lens and Globe; Highly Polished Corrugated Reflector with a 2 in. Ruby Lens framed in its Center.

Each Lamp Furnished Complete with Strong Metal Brackets; Weight per Dozen 80 lbs.

SIGNALITE

	Per Dozen
No. SL—Left Side.	$27.00
No. SR—Right Side.	27 00

One in a Box

CARRIAGE LAMPS

SOLAR

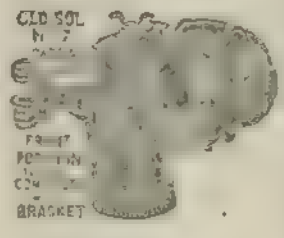
For Acetylene Gas; Simple, Safe and Practical; Cannot Jar or Blow Out; All Brass with Removable Aluminum Reflector; Double Convex Lens 2⅝ inches; Jeweled Side Lights, Green and Red, 1¼ inches; Carbide and Water Capacity sufficient for 5 hours' use; All parts Heavily Nickel Plated and Polished.

Complete with Dash Attachment.

	Per Pair
No. S10SG—Height 7 inches; Weight per Pair 4 lbs.	$12.00

One in a Box

OLD SOL



A Self Contained Acetylene Lamp with rear Red Signal, having a large Capacity and throwing a splendid Light; may be used on either side of a Carriage; The Front Glass is of the same size and Interchanges with the rear Red Glass to allow use on Right or Left Side of Carriage

Fulfills every requirement of all Laws governing Carriage Lighting and has Special patented features; Well made from Heavy Gauge Sheet Brass, Nickel Plated and Polished; will Burn 6 to 7 Hours on one charge of Carbide and Furnish a Light of about 100 Candle Power.

	Each
No. 7—With Bracket; Height Over All 8¼ in.; Diameter of Door 4 in.; Diameter of Reflector 3 in.; Carbide Capacity 5 oz., Weight 1¼ lbs	$5.50

One in a Box

EUREKA

The Ideal "Buggy" makes an Ideal Driving Lamp or Tail Lamp. Vehicles, complies with the laws of various States and Cities; burns Kerosene; well made from Sheet Brass; Black Enamel Finish, Nickel Plated Door Rim; 3 inch Convex Lens; 2 inch Red Rear Signal; Height 7 in.; Complete with Dash Attachment; Weight 1¼ lbs.

	Per Dozen
No. ER—Right Hand	$35 00
No. EL—Left Hand	36.00

One in a Box.

POLICE LANTERNS

SLIDE

Heavy Tin, Japanned, with Knob to Operate Slide at Bottom; Burns Lard Oil; Fount Holds ¼ pint; Convex Lens; Height 7½ inches; diameter of Base 3½ inches.

	Per Dozen
No. 80—2 inch Lens, Without Wick, Weight per Dozen 11 lbs.	$18 50
No. 85—3 inch Lens; Weight per Dozen 12 lbs.	21 50

Loose

No. DLB Wick Adapted to No. 80 and 85 Lantern, See Page 3092.

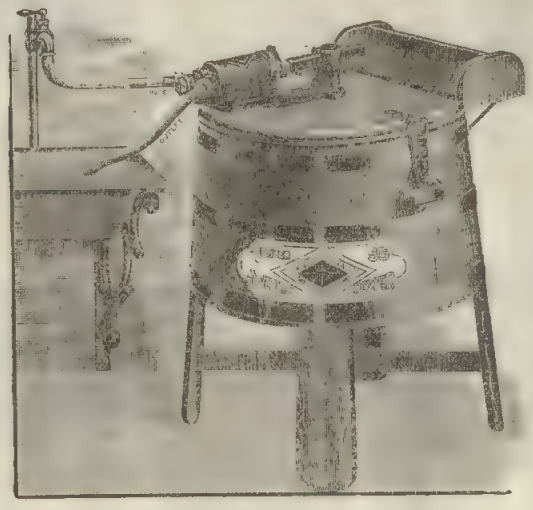
WASHING MACHINES

*NORLEIGH DIAMOND WATER POWER

Runs by Water Power
The Hard Work and Drudgery of Washday are Unknown where this Machine is Used

Connect the Machine to the Faucet; The Water Pressure Does the Work

Do not Forget that there is a Limit to the Quantity of Clothes which Can be Washed at One Time and that, to Secure Perfect Results, the Machine Must Not be Overcrowded.

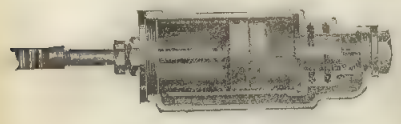


Works to Best Advantage with a Water Pressure of 35 pounds or Over, which Produces 60 Piston Strokes per Minute and 60 Movements of the Agitators; the Machine will Work with 20 pounds Pressure, which will Produce About 50 to 54 Piston Strokes per Minute, this is Sufficient to Wash Shirts or their Equivalent.

Each

No. 55—Inside Dimensions, Diameter at Bottom 22 inches, at Top 20 inches Depth 19¼ inches Height to Top of Tub 29 inches Height Over All 34 inches Length of Wringer Post 44 inches, Tub Frame Has Galvanized Hoops, Hinged Cover, etc., Gold Striped, Motor Finished in Red Enamel; Motor Frame, Black Japanned; Complete with Intake and Discharge Hose, Weight Each 70 Lbs. **$25 00**

One in a Crate



Sectional View of Motor

These Views Give an Idea of the Extreme Simplicity of the Motor; Note the Few Parts and that no Packings, Springs, etc., are Used. Size of Motor 8½x4 inches.

Sectional View of Cylinder

By the Scientific Application of the Pressure, Greater Power is Developed than is Possible with Other Types of Water Motors.

The Motor, which is Very Simple is the Most Powerful Motor for this Purpose; the Motor, Including the Port and All Waterways is a **Solid Bronze Casting** Without Joints and Needs no Packing; Dirty Packing is the Greatest Source of Trouble in other Motors; the Action of the Valve is Automatic; Cylinder Head Screws in Any Desired Tight; the Piston Rod is of Steel Brass, a Double Flange Rubber Cup Entirely Covers the Gears, Preventing Accidents; Extra Heavy Cast Bronze Hose Connections; Broad Cast Iron Motor Base of Unusual Design Gives Added Security to Fastening.

The Tub is Made of Waterproof Long Grained Cypress Wood, Machine Dressed Finish, Varnished, the Inside is Corrugated Around Sides and Bottom Giving a Perfect Rubbing Surface; the Motor being Light in Weight Little Effort is Required to Lift the Cover, the Extension Stave Legs are Strongly Braced and will Never Become Shaky.

WATER MOTORS

Extra Motors for No. 55 Norleigh Diamond Water Power Washing Machine.

Each

No. ND55M Consists of Motor, Shaft, Pin Wheel and Hose; all Ready to Attach to Tub Top **$19 00**

One in a Box

Norleigh Diamond Washing Machines are Sold Only to the Best Retail Trade, Insuring the Merchant Against Unfair Competition

THE MOST PERFECT AND SATISFACTORY SKI MADE.

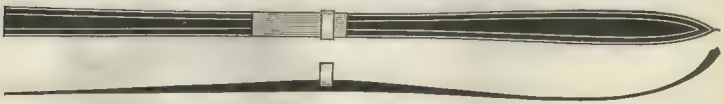
All Skis Have Rubber Treads.

Made by skilled workmen who learned the art of ski making in Norway. Special attention is directed to the points of these ski, as their width diminishes their thickness increases, producing a very strong yet graceful point.

Norway Pine, grooved and striped, with rubber treads.

	Per Pair
No. P40—4 foot; weight per pair, 3 lbs.	$1.80
No. P50—5 foot; weight per pair, 4 lbs.	2.40
No. P60—6 foot; weight per pair, 4½ lbs.	2.70
No. P70—7 foot; weight per pair, 6 lbs.	3.70
No. P80—8 foot; weight per pair, 8 lbs.	5.50

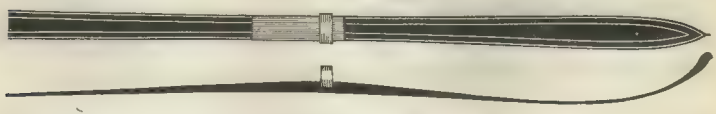
In bulk.



Selected Birch, mahogany finish with fancy grooved white stripes and rubber treads

	Per Pair
No. B50—5 foot; weight per pair, 4 lbs.	$3.50
No. B60—6 foot; weight per pair, 5 lbs.	4.50
No. B70—7 foot; weight per pair, 6 lbs.	5.80

In bulk.



	Per Pair
No. AF70—7 foot fancy ash ski, black finish with white grooved stripes and rubber treads, weight per pair, 6 lbs.	$6.60

In bulk

SELECTED WHITE ASH, WITH RUBBER TREADS.

	Per Pair
No. A70—7 foot; weight per pair, 6 lbs.	$6.60
No. A80—8 foot; weight per pair, 8 lbs.	9.60
No. A96—9½ foot; weight per pair, 10 lbs.	10.50

SKI POLES.

These poles are very substantially made, fitted with full bottom ferrule ice peg, Northland patent aluminum cup shaped flexible snow washer fastened to pole with light aluminum clamps so that it can easily be removed from pole if desired.

	Each
No. 2—Ski Poles; bamboo; length, 5 feet	$1.50
No. 3—Ski Poles; with solid mushroom wood head	.80

Weight each, 2 lbs.
In bulk.

SKI BINDING.

SPECIAL.

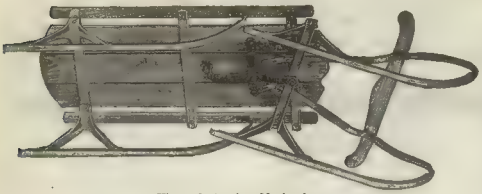
Strongest and most satisfactory. The heavy brass side braces give a rigid and perfect control of the ski at all times. Adjustable to fit any foot from the smallest to the largest.

	Per Pair
No. 2—Ski Binding; complete with straps	$4.00

Weight per pair, 1 lb.

AUTO BOBS.

SHERWOOD.



View of steering Mechanism.

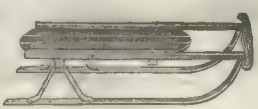
Sherwood Bobs are first to solve the steering problem.

Experience has proven and it has been acknowledged by well known manufacturers that a small sled can not be operated with efficiency or safety. Sherwood Bobs overcome all this difficulty, as the steering device on a small size operates as easily as on the large size.

By adjusting thumb nut to loosen or tighten spring, will allow you to have in one minute a coaster or bobs as desired. Tighten spring for coaster—loosen spring for bobs.

The materials used in the construction of these bobs are the best obtainable. The runners are made of spring steel the knees of pressed steel and the frame and top of straight grained ash.

SHERWOOD JR. (SLED.)



No S J.

Each

No. SJ—Sled; length, 28 inches; height, 6 inches; width, 11 inches; weight each, 5 lbs **$3.20**

No. 36.

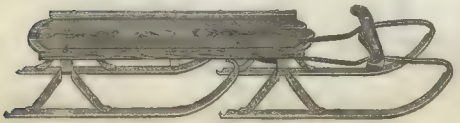
Each

No. 36—Auto Bob; length, 36 inches; height, 6 inches; width, 12 inches, weight each, 9 lbs **$6.80**

No. 42.

Each

No. 42—Auto Bob; length, 42 inches; height, 6⅝ inches; width, 13 inches; weight each 10¼ lbs **$7.60**



No. 48.

Each

No. 48—Auto Bob; length, 48 inches; height, 8¾ inches; width, 14¼ inches; weight each, 15 lbs..... **$9.20**

Two in a crate.

OHIO TOOL CO.'S PLANES

This line of planes is fitted with a special extra heavy cutter which prevents chattering or trembling when being used in hard or knotty timber. The faces are carefully machined and are absolutely true.

IRON BENCH

Smooth, Plain Bottom

Nos.	02	03	04	04½
Length, inches	7	8	9	10
Cutter, inches	1⅝	1¾	2	2⅜
Each	$2.75	3.00	3.25	3.75

One in a Box

Jack, Fore and Jointer, Plain Bottom

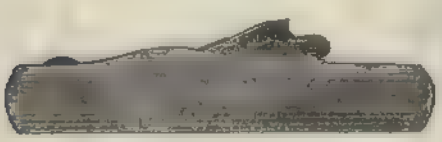
Nos.	05	05½	06	07	08
Style	Jack	Jack	Fore	Jointer	Jointer
Length, in.	14	15	18	22	24
Cutter, in.	2	2⅛	2⅜	2⅜	2⅜
Each	$3.75	4.25	4.75	5.50	6.50

One in a Box

Smooth, Corrugated Bottom

Nos.	03C	08C	04C	04½C
Length, inches	7	8	9	10
Cutter, inches	1⅝	1¾	2	2⅜
Each	$2.75	3.00	3.25	3.75

One in a Box

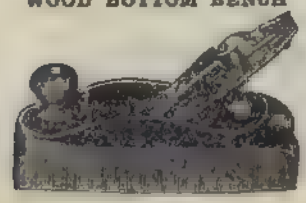


Jack, Fore and Jointer, Corrugated Bottom

Nos.	05C	05½C	06C	07C	08C
Style	Jack	Jack	Fore	Jointer	Jointer
Length, in.	14	15	18	22	24
Cutter, in.	2	2⅛	2⅜	2⅜	2⅜
Each	$3.75	4.25	4.75	5.50	6.50

One in a Box

WOOD BOTTOM BENCH



Smooth

No. 024—Length 8 inches, cutter 2 inches ..... Each $2.00

One in a Box

WOOD BOTTOM BENCH

Smooth

No. 036—Length 9 inches, cutter 2 inches ..... Each $2.50

One in a Box

Jack, Fore and Jointer

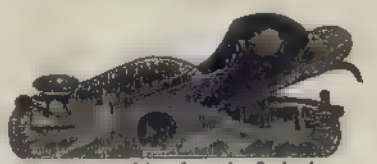
Nos.	026	027	029	031	032
Style	Jack	Jack	Fore	Jointer	Jointer
Length, in.	15	15	20	24	26
Cutter, in.	2	2⅛	2⅜	2⅜	2⅜
Each	$2.25	2.50	2.75	3.00	3.25

One in a Box

IRON BLOCK

No. 015—Adjustable, length 7 inches, cutter 1⅝ inches, japanned.... Each $1.70

One in a Box



No. 018—Adjustable, length 6 inches, cutter 1⅝ inches, nickel trimmings ..... Each $1.75

One in a Box

No. 018—Adjustable, knuckle joint, length 6 inches, cutter 1⅝ in., nickel trimmings ..... Each $1.85

One in a Box

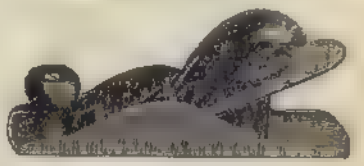
No. 09½—Lateral and longitudinal adjustment, length 6 inches, cutter 1⅝ inches, japanned..... Each $1.80

One in a Box

IRON BLOCK

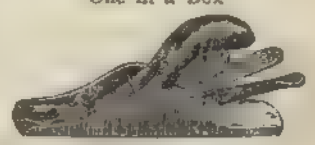
No. 0220—Adjustable, length 7⅛ inches, cutter 1⅝ inches, japanned... Each $1.00

One in a Box



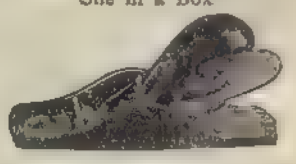
No. 0110—Length 7⅛ inches, cutter 1⅝ inches, japanned ..... Each $0.70

One in a Box



No. 0103—Length 5½ inches, cutter 1¾ inches, adjustable, japanned.. Each $0.70

One in a Box



No. 0102—Length 5½ inches, cutter 1¾ inches, japanned ..... Each $0.55

One in a Box

No. 0101—Length 3½ inches, cutter 1 inch, japanned ..... Each $0.25

Six in a Box

LOW ANGLE BLOCK

Nickel trimmings

Lateral and longitudinal adjustment, nickel trimmings

No. 060—Length 6 inches, cutter 1⅝ inches ..... Each $1.90

No. 066—Length 7 inches, cutter 1⅝ inches ..... Each 2.10

One in a Box

DOUBLE END BLOCK

No. 0130—Length 8 inches, cutter 1⅝ inches ..... Each $1.00

One in a Box

OHIO TOOL CO.'S PLANES AND PLANE IRONS

RABBET AND BLOCK

No. 0140—Adjustable, length 7 inches, cutter 1⅝ inches, japanned trimmings .....Each $1.60
One in a Box

SCRUB PLANE

No. 040—Iron stock, length 9½ inches, cutter 1¼ inches, japanned....Each $1.00
One in a Box

ROUTER PLANE

Closed throat
No. 071½—Nickel plated, steel bits, one each ¼ and ½ inch. .. .Each $1.50
One in a Box

RABBET PLANES

With spur, japanned

Nos. 0190	0191	0192
Length, inches 8	8	8
Cutter, in 1½	1¼	1
Each $1.15	1.15	1.15

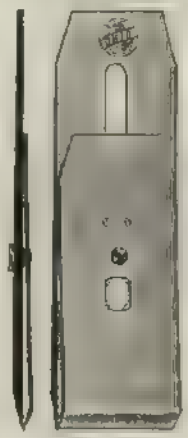
One in a Box

RABBET AND FILLETSTER

This plane is fitted with a reversible arm and can be used as either a right or left hand filletster. Two seats are provided for the cutter and the plane may be used as a bull-nose rabbet by using the forward seat

No. 078—Japanned, length 8½ inches, cutter 1½ inches.....Each $1.50
One in a Box

PLANE IRONS



No. 0254

Best quality crucible steel, tempered and hardened, ground sharp, ready for use.

Single

No. 0253—

Size 1¾ in., for planes Nos. 03 and 03C .....Each $0.26

Size 2 in., for planes Nos. 04, 05, 04C, 05C, 024, 035 and 026.....Each .27

Size 2⅜ in., for planes Nos. 04½, 06, 07, 04½C, 06C, 07C, 029 and 031. Each ..... .33

Size 2⅝ in., for planes Nos. 08, 08C and 032 .....Each .38

No. 0254—

Size 1¾ in., for planes Nos. 03 and 03C .....Each $0.41

Size 2 in., for planes Nos. 04, 05, 04C, 05C, 024, 035 and 026.....Each .43

Size 2⅜ in., for planes Nos. 04½, 06, 07, 04½C, 06C, 07C, 029 and 031 .....Each .50

Size 2⅝ in., for planes Nos. 08, 08C and 032 .....Each .59

Half Dozen in a Box

NOTE—In ordering plane irons, always mention No. of plane for which iron is de[redacted]d.

WOOD PLANES

These planes are all made from beechwood, with lignum-vitae starts, polished, cast steel cutters.

Smooth

Nos. 1B	3B
Style cutter .... Single	Double
Length, in 8	8
Cutter, inches .....2 to 2¼	2 to 2¼
Each $0.70	.90

Packed as Ordered

Smooth

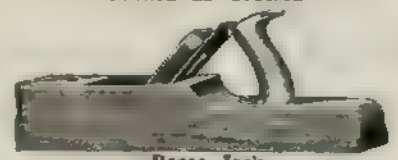
No. 5B—Double iron, length 10½ inches, cutters 2 to 2¼ inches, improved solid handles .....Each $1.75
Packed as Ordered

WOOD PLANES

Regular Jack

Nos. 10B	12B
Style cutter .. .. Single	Double
Length, in.... 16	16
Cutter, in. .....2 to 2¼	2 to 2¼
Each $0.85	1.00

Packed as Ordered



Razee Jack

No. 15B—Double cutter, length 16 inches, cutter 2 to 2¼ inches..Each $1.20
Packed as Ordered

Fore and Jointer

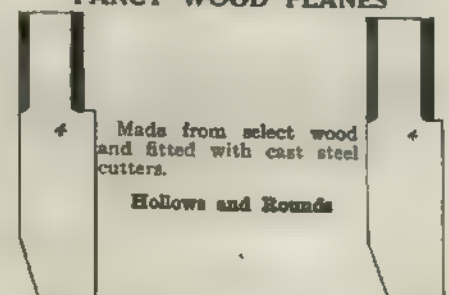
Nos. 19B	25B
Style ..... Fore	Jointer
Style cutter .... Double	Double
Length, inches 22	26
Cutter, in .....2⅜ to 2½	2⅛ to 2⅜
Each $1.70	1.80

Packed as Ordered

TOOTH PLANE

No. 36—Length 7½ inches, cutter 2⅛ inches .....Each $1.00
Packed as Ordered

FANCY WOOD PLANES



	Nos. 92H and 94H Hollow to cut round			Nos. 92R and 94R Round to cut hollow	
Sizes	1	2	3	4	5
Cutter, in....	¼	⅝	½	⅝	¾
Works on circle, in.	½	¾	1	1¼	1½
No. 92H—Each ..$0.50		.50	.50	.50	.50
No. 92R—Each .. .50		.50	.50	.50	.50
Sizes		6	7	8	9
Cutter, in.....		⅞	1	1⅛	1¼
Works on circle, in.....		1¾	2	2¼	2½
No. 92H -Each $0.50		.58	.58	.58	.58
No. 92R—Each .... .50		.58	.58	.58	.58
Sizes		10	11	12	
Cutter, in.		1⅝	1⅛	1⅝	
Works on circle, in		2¾	3	3¼	
No. 94H Each $0.68		.68	.68	.68	
No. 94R—Each		.68	.68	.68	

Packed as Ordered

CORN POPPERS

SQUARE

Per Dozen

No. 1—Capacity **One Quart**; Size 6½x4½x2½ in.; Wire 8 Mesh to the Inch; Edges Bound with Bright Tin; Wire Cover; Coppered Steel Brace Wires and Catch; 18 inch Red Stained Handle; Weight per Dozen 4½ lbs..... **$2.50**

One Dozen in a Carton

SQUARE

Wire Body and Cover; 8 Mesh to the Inch; Edges Bound with Bright Tin; Coppered Steel Brace Wires and Catch.

Per Dozen

No. 7—Capacity **Two Quarts**; Size 9x6½x2¾ inches; 24 inch Red Stained Handle; Weight per Dozen 9½ lbs..... **$4.00**

No. 8—Capacity **Four Quarts**; Size 11¼x8½x3¾ inches; Weight per Dozen 13 lbs..... **8.50**

One Dozen in a Carton

SQUARE

Wire Body with Sliding Metal Cover; The Sliding cover is opened or closed by means of a small Steel Rod extending through Handle of the Popper. Steel Handle.

Per Dozen

No. C—Capacity 2 quarts; Size 9x7¼x3 inches; 8 mesh to the inch; 24 inch Steel Handle; Weight per Dozen 10 lbs..... **$4.50**

One Dozen in a Carton

DOUBLE, REVERSIBLE

Sift the Unpopped Kernels Through the Center into the Empty Side

Per Dozen

No. 402—Capacity **Two Quarts**; Size 6½x5x2¼ inches; 8 Mesh to the Inch, in Body, 4 Mesh to the Inch in Center; Edges Bound with Bright Tin; Coppered Steel Brace Wires; Ring Fastening; 20 inch Red Stained Handle; Weight per Dozen 7 lbs..... **$4.00**

One Dozen in a Carton

CORN POPPERS

ROUND

Per Dozen

No. 2—Capacity **One Quart**; Diameter 5¾ inches, Depth 2¼ inches; 8 Mesh to the Inch; Edges Bound with Bright Tin; Tin Cover; Steel Brace Wires; 20 inch Red Stained Handle; Weight per Dozen 4½ lbs..... **$3.00**

One Dozen in a Carton

Per Dozen

No. 10—Capacity **Two Quarts**; Size 9x7x3½ inches; **Made of Blued Sheet Steel**; The Sliding Cover is Perforated to Allow Sifting Out the Unpopped Kernels without Removing the Cover; Has Perforated sunken butter Drainer; The Sliding Cover is opened or closed by means of a small steel rod extending through the Handle of the Popper; No chance of burning the hands; Weight per Dozen 16½ lbs:..... **$7.50**

One Dozen in a Carton

"1900" PERFECTION

The Ventilated **Wire Cloth Top** Eliminates Danger of Burning the Corn and Allows the Operator to Watch the Entire Process; the Sliding Cover is Closed or Opened by Means of a Small Steel Rod Extending Along the Handle and Operated with the Thumb; No Chance of Burning the Hands; the Coarse Mesh in the Cover Allows Unpopped Kernels to be Sifted Out.

Per Dozen

No. 1900—Capacity **Two Quarts**; **Blued Sheet Steel Body**; Size 9x7¼x3 inches; Coarse Mesh Wire Top; 21 inch Yellow Stained Handle; Weight per Dozen 16 lbs..... **$3.70**

One Dozen in a Carton

NO-FAULT

Per Dozen

No. 1016—Capacity One and One-Half Quarts; Black Sheet Steel Sliding Perforated Cover; Size 7 inches by 2½ inches; Wood Handle 17½ inches Long; Weight per Dozen 12 lbs..... **$3.20**

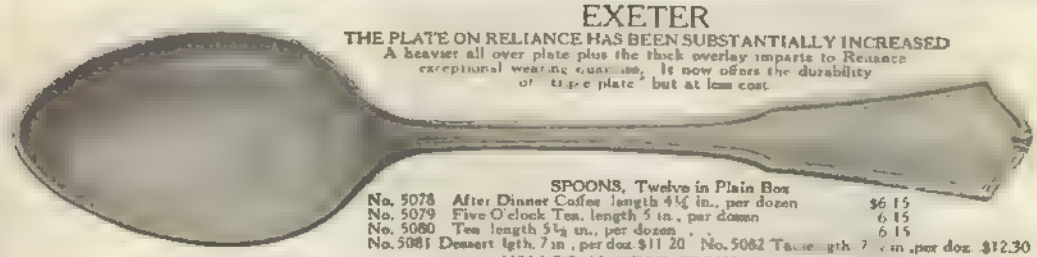
One Dozen in a Carton

ONEIDA COMMUNITY
RELIANCE PLATE

EXETER

THE PLATE ON RELIANCE HAS BEEN SUBSTANTIALLY INCREASED
A heavier all over plate plus the thick overlay imparts to Reliance exceptional wearing quantities. It now offers the durability of triple plate but at less cost

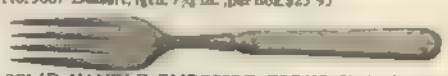
The EXETER design in Oneida Community Reliance Plate is unusually beautiful. It is purely Colonial in outline and ornament.



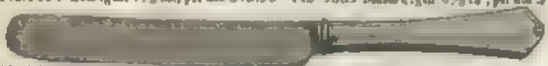
SPOONS, Twelve in Plain Box
No. 5078 After Dinner Coffee length 4¼ in., per dozen $6 15
No. 5079 Five O'clock Tea, length 5 in., per dozen 6 15
No. 5080 Tea length 5½ in., per dozen 6 15
No. 5081 Dessert lgth. 7 in., per doz. $11 20 No. 5082 Table lgth. 7 ¾ in., per doz. $12.30

HOLLOW HANDLE FORKS, Six in Flannel Roll
No. 5086 Med., lgth. 7⅝ in., per doz. $24.75 No. 5087 Dessert, lgth. 7⅛ in., per doz. $23 95

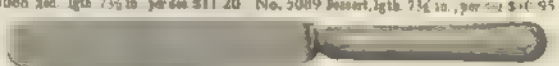
FLAT HANDLE FORKS, Twelve in Plain Box
No. 5084 Med. lgth. 7⅛ in., per doz $12.30 No. 5085 Dessert, lgth. 6⅞ in., per doz $11.20



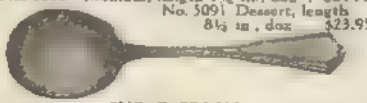
SOLID HANDLE EMBOSSED FORKS, Six in Racked Box
No. 5088 Med. lgth 7⅜ in. per doz $11 20 No. 5089 Dessert, lgth. 7⅛ in., per doz $10 95



HOLLOW HANDLE KNIVES, Six in Flannel Roll
No. 5090 Medium, length 9⅛ in., doz. $24 75
No. 5091 Dessert, length 8⅛ in., doz $23.95

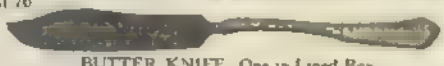


SOLID HANDLE EMBOSSED KNIVES
Six in Racked Box
No. 5092 Med., lgth 9⅜ in doz $11 20
No 5093 Dess., lgth. 8⅛ in., doz 10.95

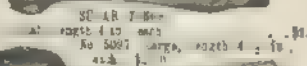


SUGAR SPOON Each
No. 5094 One in lined box, lgth. 5⅛ in. $1.20

PICKLE FORK, One in Lined Box
No. 5095 Length 8¼ in., each $1 70

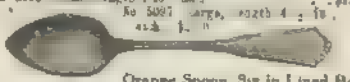


BUTTER KNIFE, One in Lined Box
No. 5096 Length 7½ in., each. $1 25

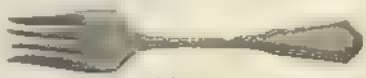


SUGAR TONG
No. 5096 ... length 4 in. each ... $1.70
No. 5097 Large, length 4 ... in., each ...

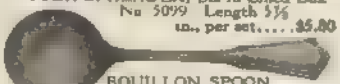
BUTTER SPREADER, Six in Lined Box
No 5099 Length 5⅛ in., per set..... $5.00



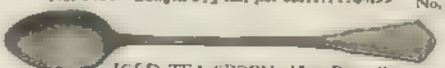
Orange Spoon, Six in Lined Box
No. 5100 Length 5½ in., per set..... $4.35



INDIVIDUAL SALAD FORK
No. 5102 Six in lined box, length 6½ in., per set.. $6.20

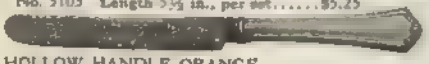


ROUILLON SPOON
Six in Lined Box
No. 5103 Length 5½ in., per set..... $5.25

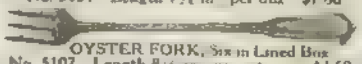


ICED TEA SPOON 12 in Plain Box
No. 5104 Length 7½ in. per doz $7 80

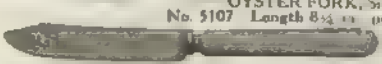
HOLLOW HANDLE FRUIT KNIFE
No. 5105 Six in Flannel Roll, per set.. $11 15



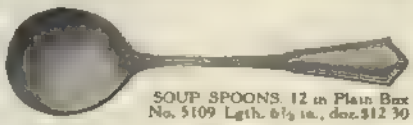
HOLLOW HANDLE ORANGE KNIFE Six in Lined Box
No. 5106 Length 7⅛ in., per set $12.00



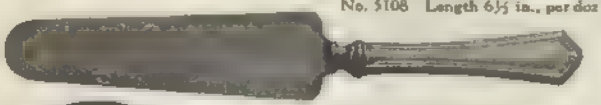
OYSTER FORK, Six in Lined Box
No. 5107 Length 6¾ in. per set $4 60



Solid Handle Emb. Fruit Knife Six in Racked Box
No. 5108 Length 6½ in., per doz $9.50

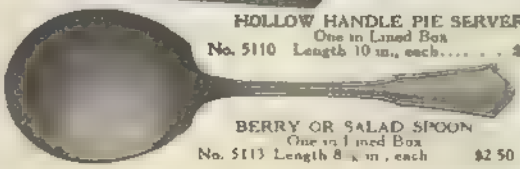


SOUP SPOONS, 12 in Plain Box
No. 5109 Lgth. 6½ in., doz. $12 30

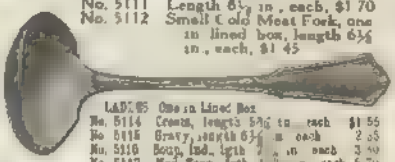


HOLLOW HANDLE PIE SERVER
One in Lined Box
No. 5110 Length 10 in., each..... $3.70

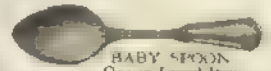
COLD MEAT FORK, One in Lined Box
No. 5111 Length 8½ in., each, $1 70
No. 5112 Small Cold Meat Fork, one in lined box, length 6½ in., each, $1 45



BERRY OR SALAD SPOON
One in Lined Box
No. 5113 Length 8 ... in., each $2 50



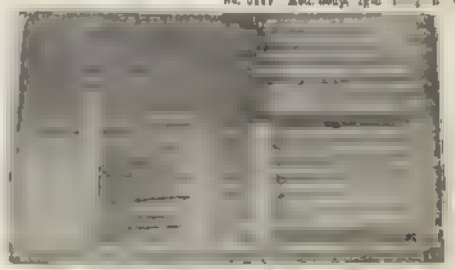
LADLES One in Lined Box
No. 5114 Cream, length 5½ in. each $1 55
No. 5115 Gravy, length 6½ in. each 2 05
No. 5116 Soup, Ind., lgth. 7 ... in. each 3 50
No. 5117 Med. Soup, lgth. ... in. each 5 70



BABY SPOON
One in Lined Box
No. 5118 Lgth. 4½ in., each $1.00

BABY FORK
One in Lined Box
No. 5119 Lgth. 4½ in., each $1 00

SMALL CARVING SET
One Set in Lined Box
No. 5120 Length of Knife 9½ in., per set $8 40



5-Piece Embossed Knife and Embossed Fork Sets
No. 5121 Six each Emb. Med. Knife and Fork, set $11 20
No. 5122 Six each Emb. Dess. Knife and Fork, set 10.95

THREE-PIECE CHILD'S SET
In Lined Box
No 5123 H. H. Knife, lgth. 7½ in., set $4 25
No 5124 Embd. Knife, lgth. 7 ... in., set 3 55
No. 5125 Flat Knife, lgth. 7 in., set 3 10

EXETER DESIGN

ONEIDA COMMUNITY
RELIANCE PLATE

LA ROSE

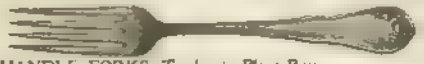
THE PLATE ON RELIANCE HAS BEEN SUBSTANTIALLY INCREASED

A heavier all over plate plus the thick overlay imparts to Reliance exceptional wearing qualities. It now offers the durability of "triple plate" but at less cost.

Embossed in strong relief, a half circle of roses relieves the plain shield of the La Rose Pattern, and gives a beautiful finish to this design.

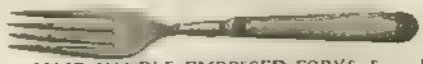
SPOONS, Twelve in Plain Box

No. 5126	After Dinner Coffee length 4¼ in., per dozen	$ 6.15
No. 5127	Five O'clock Tea, length 5 in., per dozen	6.15
No. 5128	Tea, length 5⅝ in., per dozen	6.15
No. 5129	Dessert length 7 in., per dozen	11.20
No. 5130	Table, length 7⅞ in., per dozen	12.30



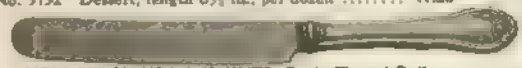
FLAT HANDLE FORKS, Twelve in Plain Box

No. 5131	Medium, length 7⅛ in., per dozen	$12.30
No. 5132	Dessert, length 6⅞ in., per dozen	11.20



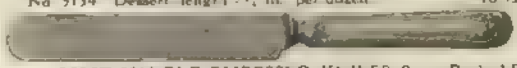
SOLID HANDLE EMBOSSED FORKS, Six in Racked Box

No. 5133	Medium, length 7⅛ in., per dozen	$11.20
No. 5134	Dessert length 7¼ in., per dozen	10.95



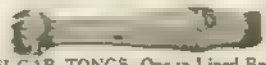
HOLLOW HANDLE KNIVES, Six in Flannel Roll

No. 5135	Medium, length 9⅛ in., per dozen	$24.75
No. 5136	Dessert, length 8⅛ in. per dozen	23.95



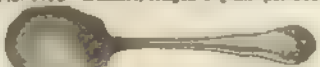
SOLID HANDLE EMBOSSED KNIVES Six in Racked Box

No. 5137	Medium, length 9⅛ in., per dozen	$11.20
No. 5138	Dessert, length 8⅛ in., per dozen	10.95

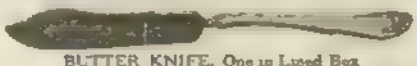


SUGAR TONGS, One in Lined Box

No. 5140	Small, length 4 in., each	$1.70
No. 5141	Large, length 4½ in., each	2.10

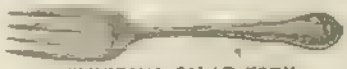


SUGAR SPOON, One in Lined Box
No. 5139 Length 5⅝ in., each $1.20



BUTTER KNIFE, One in Lined Box
No. 5142 Length 7⅛ in., each $1.25

ORANGE SPOON, Six in Lined Box
No. 5144 Length 5¼ in., per set $4.35



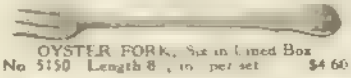
INDIVIDUAL SALAD FORK
Six in Lined Box
No. 5145 Length 6⅛ in., per set $6.20

S. HDL. EMB. FRUIT KNIFE
Six in Racked Box
No. 5143 Length 6½ in., per dozen $9.50

ICED TEA SPOON, Twelve in Plain Box
No. 5147 Length 7⅜ in., per dozen $7.80

HOLLOW HANDLE FRUIT KNIFE
No. 5148 Six in flannel roll, per set $11.15

BOUILLON SPOON
Six in Lined Box
No. 5146 Length 5½ in., set $5.25



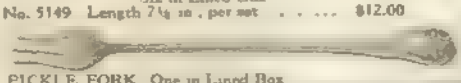
OYSTER FORK, Six in Lined Box
No. 5150 Length 8 in., per set $4.60

SOUP SPOONS, Twelve in Plain Box
No. 5151 Length 6⅞ in., per dozen $ .40

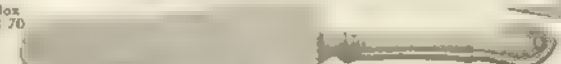
HOLLOW HANDLE ORANGE KNIFE
Six in Lined Box
No. 5149 Length 7⅛ in., per set $12.00

BUTTER SPREADER
Six in Lined Box
No. 5153 Length 5¼ in., set $5.80

COLD MEAT FORKS, One in Lined Box
No. 5154 Long Handled, each $1.70
No. 5155 Small Cold Meat Fork, one in lined box, length 6¼ in., each 1.45

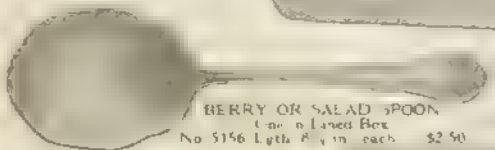


PICKLE FORK, One in Lined Box
No. 5152 Length 8⅛ in., each $1.70

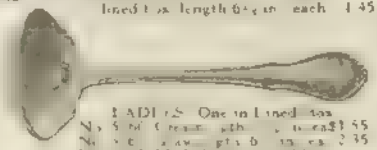


HOLLOW HANDLE PIE SERVER
One in Lined Box
No. 5157 Length 10 in., each $3.70

HOLLOW HANDLE FORKS
Six in Flannel Roll
No. 5158 Med. 7⅛ in., doz. $24.75
No. 5159 Dessert 7¼ in., doz. 23.95

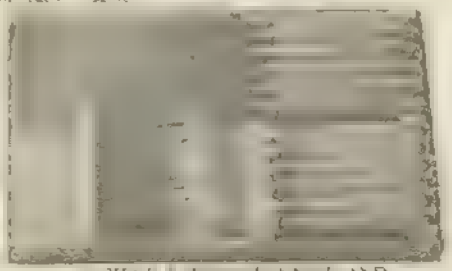


BERRY OR SALAD SPOON
One in Lined Box
No. 5156 Length 8½ in., each $2.50



LADLES, One in Lined Box
No. 5160 Gravy, length 5¼ in., each $1.55
No. 5161 Sauce, length 6 in., each 2.35
No. 5162 Medium Soup, length 10½ in., each 5.40

THREE-PIECE CHILD'S SET
In Lined Box
No. 5163 H. H. Knife, length, 7⅛ in., set $4.25
No. 5164 Embd. Knife, length 7⅛ in., set 3.55
No. 5165 Flat Knife length, 7 in., set 3.10



PIE OR CAKE KNIFE AND
EMBOSSED DESSERT SETS Per set
No. 5166 Six each Hdl. Med. Knife and Fork $ .20
No. 5167 Six each Emb. Dess. Knife and Fork 0.95

SMALL CARVING SET
One Set in Lined Box
No. 5168 Length of Knife 9⅞ in., per set $8.40

LA ROSE DESIGN

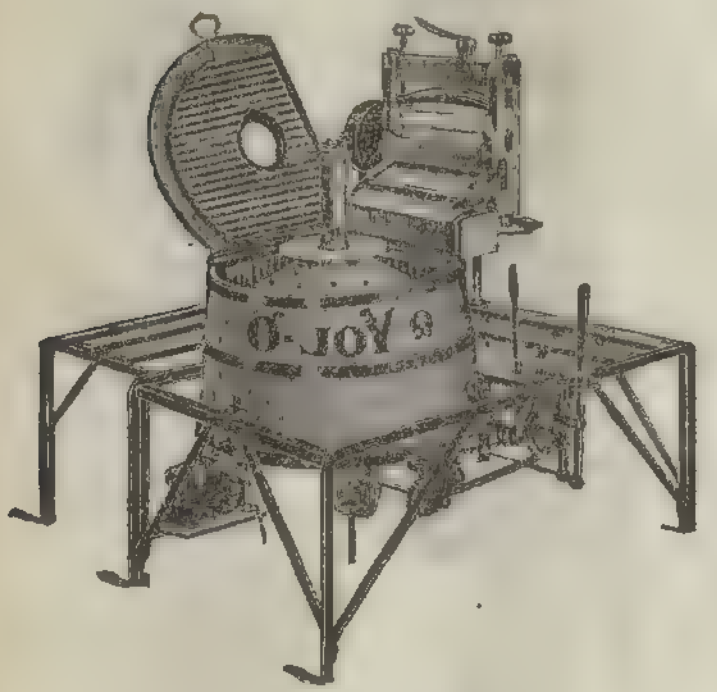
WASHING MACHINES

O-JOY VACUUM

Constructed on the Vacuum principle, having a Vacuum Agitator with an up and down movement which positively will not tear or injure the finest fabrics. It will thoroughly cleanse in less time than the old method. Agitator heavily galvanized metal and indestructible—Easy Running, Fast Washing and is a complete Power Laundry on a small scale.

Platform and Frame—Angle Steel, strongly supported; the left or supplementary half being removable for space saving between wash days. Hardwood Platform strips bolted to Frame. Platform arranged to support wash basket and two wash tubs. Platform and all metal parts Green Enameled.

Washing Tub—Solidly mounted on end of main platform. Select Southern Louisiana Red Cypress; double reinforced corrugated lid and corrugated sides and bottom; bound with three flat, iron hoops; inside dimensions—13¾ inches deep; 20¾ inches in diameter at top; 23 inches in diameter at bottom. Natural Wood Finish and Varnished.



ELECTRIC

Note—When ordering state whether for Direct or Alternating Current; if for Direct current state whether for 110 or 220 Volts. When wanted for Alternating current state the Voltage, Cycle and Phase.

Complete with ¼ H. P. Motor, round belt, 10 ft. brewery cord with switch connection on tub and plug connection for incandescent lamp socket.

	Each
✣No. OJE—Weight Crated 260 lbs.	$95.00

One in a Crate

WASHING MACHINES

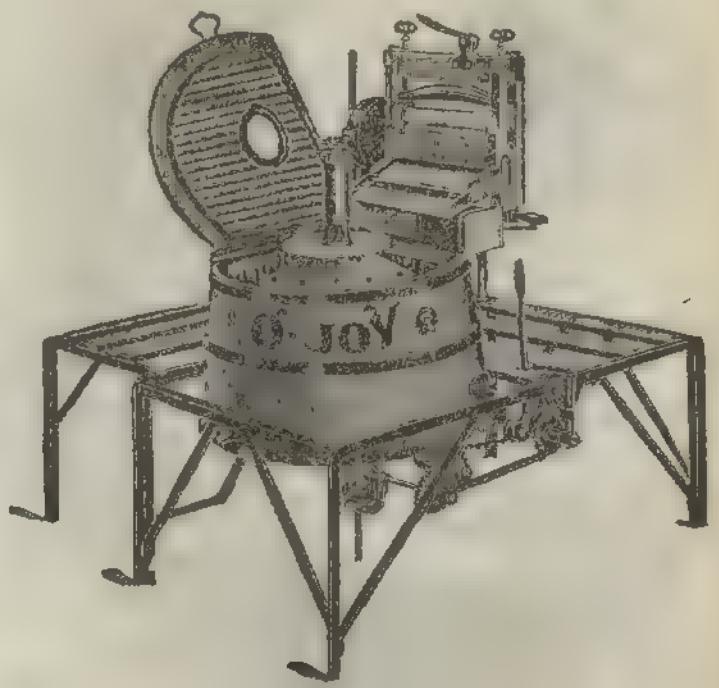
O-JOY VACUUM

Capacity—From eight to ten shirts or the equivalent of from three to four full size sheets.

Wringer—Power driven; reversible at will and can be swung and locked in any desired position; Rollers made of guaranteed high grade rubber 11x1¾ in; enclosed gears; quick lever release affording instant release should anything be caught or clogged between them.

Dimensions—Entire machine set up in working order, length over all 47½ inches; Width 49 inches; Height of Frame 21½ inches. With supplementary platform removed, 47¼x34 inches.

Guarantee—Guaranteed against defective material or faulty construction for one year. This guarantee does not cover carelessness in handling, injury due to lack of lubrication or ordinary wear or tear.



BELT POWER (GASOLINE)

Note—When ordering, state the speed of engine or shaft and give size of driver pulley so we can equip washer with proper size pulley to give it the correct speed of 120 R. P. M.

Complete with all necessary pulleys, etc., but belt is not included.

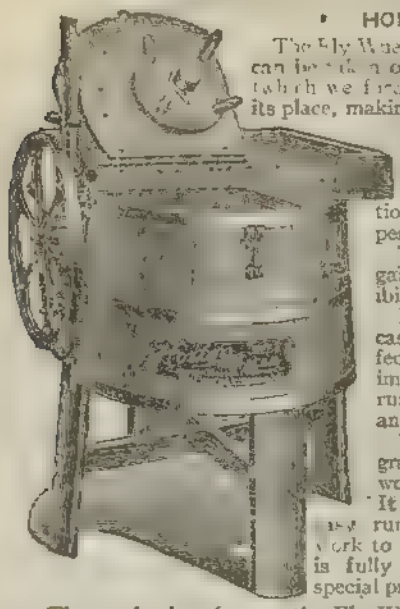
	Each
✣No. OJB—Weight Crated 240 lbs.	$50.00

One in a Crate

Items Marked ✣ Not Carried in Stock; Can only be Furnished by Shipping Direct from Factory at St. Louis

WASHING MACHINES

HORTON MIRACLE



The Fly Wheel on the regular Miracle Washer can be taken off and a Pulley Wheel (which we furnish at small cost) can be put in its place, making a Gasoline Engine Power Machine. And the belt need not be removed each time lid is opened.

The operating lever can be placed in either one or two positions convenient for a short or tall person, adult or child.

The dolly post is guarded by a galvanized cup, eliminating all possibility of tearing clothes.

Driving gears are **cut** instead of cast, causing the teeth to mesh perfectly and reduces friction to a minimum. It also makes the machine run much easier, perfectly noiseless, and it will wear much longer.

The tub is made of the highest grade Louisiana Red Cypress (the wood eternal), thoroughly seasoned. It is made larger on account of the new running mechanism, enabling the work to be done much more quickly. It is fully corrugated on the inside by a special process to avoid splinters.

The mechanism (except the Fly Wheel) is gold bronzed. The Fly Wheel and Hoops are green enameled. The tub has three coats of coach varnish and the name is on a beautiful Decalcomania Transfer. These combinations give the entire machine the appearance of parlor furniture.

Each

No. HM22—Weight each 100 lbs. **$18 00**

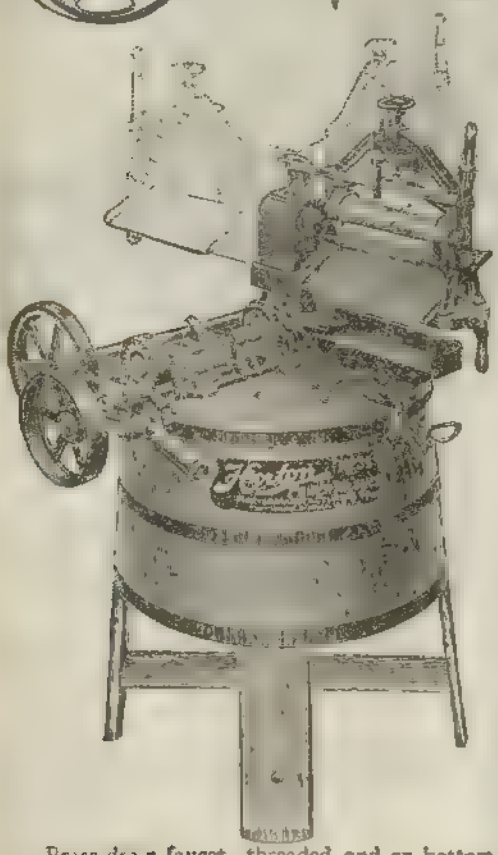
One in a Crate

POWER PULLEYS

Each

Extra Power Pulleys for No. HM22 Washing Machines **$2 00**

Loose.



HORTON POWER

A combined washing and wringing machine.

All driving gears are cut instead of just cast, reducing friction to a minimum and making it noiseless in operation. All exposed gears are covered to prevent accident.

No tight or loose pulleys required as the pulley wheel stays in position when lid is opened.

By having a **FLY WHEEL** on hand, which interchanges with the pulley wheel, the machine and wringer can be operated by hand.

Equipped with a special two-roll reversible ball bearing wringer and has a patented device to prevent injury. A simple movement of the hand swings the wringer from one position to another to enable wringing between tubs and basket.

Hardwood Dolly with four extra large pegs and guarded post. Clothes cannot tear.

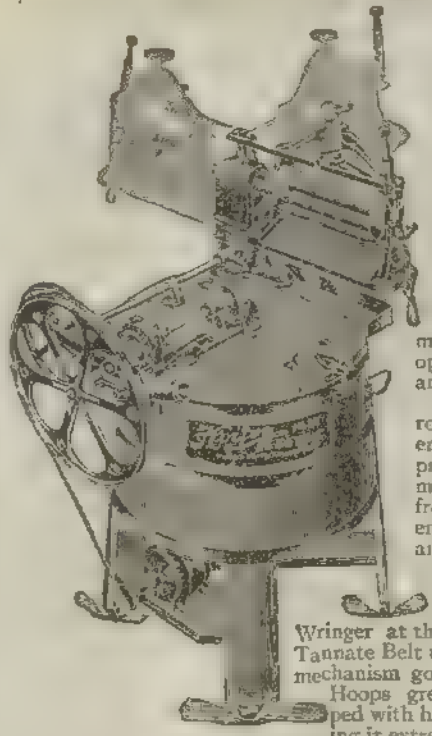
Brass drain faucet, threaded and on bottom of tub: The tub is made of Louisiana Red Cypress, natural finish; Ball Bearing Wringer; Rolls, 1¾x10 inches, guaranteed five years. Each

No. 31—Power; For any Kind of Belt Power; Weight 175 lbs. **$50.00**

One in a Crate

WASHING MACHINES

HORTON ELECTRIC WITH NEW THREE-WAY WRINGER



NOTE—Only furnished with 110 Volt Alternating Current Motor unless otherwise specified.

Tub made of the highest grade Louisiana Red Cypress and fully corrugated inside by a special process to avoid splinters.

All driving gears are machine **cut** instead of cast, reducing friction to a minimum and making it noiseless in operation. All exposed gears are covered to prevent accident.

Equipped with a special two-roll reversible ball-bearing wringer and has a patented device to prevent injury. A simple movement of hand swings wringer from one position to another to enable wringing between tubs and basket.

Has specially designed Fort Wayne Motor having ample power to operate Washer and Wringer at the same time; Best grade of Tannate Belt used; Natural finish with the mechanism gold bronzed. Fly Wheel and Hoops green enamel; Machine is equipped with heavy ball-bearing casters, making it extremely easy to move around.

Hardwood Dolly with four extra large pegs and guarded post. Clothes cannot tear; Brass drain faucet, threaded and on bottom of tub; Can also be operated by hand. Because of temperature trouble with electricity, we completely set up in an extra heavy crate to withstand any rough handling in transit.

Each

No. 32—Electric; 110 Volt, Alternating Current; Weight 200 lbs. **$95 00**

NOTE—If any other Current or Voltage is wanted We can furnish promptly by Shipping direct from Factory, Ft. Wayne, Ind.

AMERICAN

High Grade Cypress Wood, Varnished

Each

No. A—Inside Dimensions; Diameter Bottom 23½ inches, Diameter Top 21½ inches, Depth 10 inches. The Inside is Corrugated Around Sides and Bottom, Giving a Good Rubbing Surface; Inside Castings are Galvanized, Outside Castings are Aluminum Bronzed; Oak Legs, Securely Bolted to Body; Weight Each 50 lbs. **$6.50**

One in a Crate.

GLOBE

Each

No. G—Double Rubbers: Galvanized Inside Castings; Aluminum Bronzed Outside Castings; Green Fly Wheel. Inside Dimensions; Length 27½ inches, Width 18 inches, Depth 15 inches; Height Over All 45 inches; Diameter of Fly Wheel 16 inches. Oak Legs, Securely Bolted to Body; Casters on Two Legs; Weight 94 lbs. **$11 00**

One in a Crate

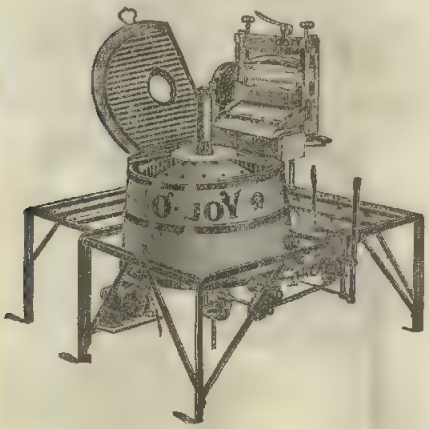
WASHING MACHINES

O-JOY VACUUM

Constructed on the Vacuum principle, having a Vacuum Agitator with an up and down movement which positively will not tear or injure the finest fabrics. It will thoroughly cleanse in less time than the old method. Agitator heavily galvanized metal and indestructible—Easy Running, Fast Washing and is a complete Power Laundry on a small scale.

Platform and Frame—Angle Steel, strongly supported; the left or supplementary half being removable for space saving between wash days. Hardwood Platform strips bolted to Frame. Platform arranged to support wash basket and two wash tubs. Platform and all metal parts Green Enameled.

Washing Tub—Solidly mounted on end of main platform. Select Southern Louisiana Red Cypress; double reinforced corrugated lid and corrugated sides and bottom; bound with three flat, iron hoops; inside dimensions—12¾ inches deep; 20¾ inches in diameter at top; 23 inches in diameter at bottom. Natural Wood Finish and Varnished.



ELECTRIC

Note—When ordering state whether for Direct or Alternating Current; if for Direct current state whether for 110 or 220 Volts. When wanted for Alternating current state the Voltage, Cycle and Phase.

Complete with ½ H. P. Motor, round belt, 10 ft. brewery cord with switch connection on tub and plug connection for incandescent lamp socket.

	Each
✣No. OJE—Weight Crated 260 lbs	$95.00

One in a Crate

WASHING MACHINES

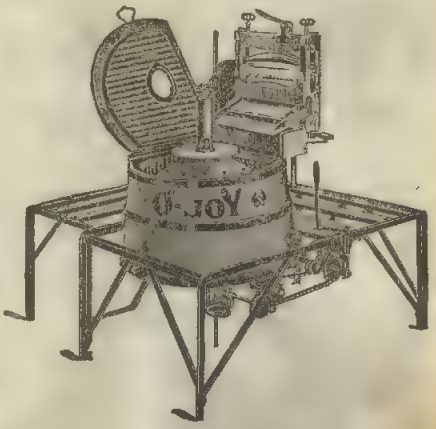
O-JOY VACUUM

Capacity—From eight to ten shirts or the equivalent of from three to four full size sheets.

Wringer—Power driven; reversible at will and can be swung and locked in any desired position; Rollers made of guaranteed high grade rubber 11x1¾ in; enclosed gears; quick lever release affording instant release should anything be caught or clogged between them.

Dimensions—Entire machine set up in working order, length over all 47½ inches; Width 49 inches; Height of Frame 21½ inches, With supplementary platform removed, 47¼x34 inches.

Guarantee—Guaranteed against defective material or faulty construction for one year. This guarantee does not cover carelessness in handling, injury due to lack of lubrication or ordinary wear or tear.



BELT POWER (GASOLINE)

Note—When ordering, state the speed of engine or shaft and give size of driver pulley so we can equip washer with proper size pulley to give it the correct speed of 120 R. P. M.

Complete with all necessary pulleys, etc., but belt is not included.

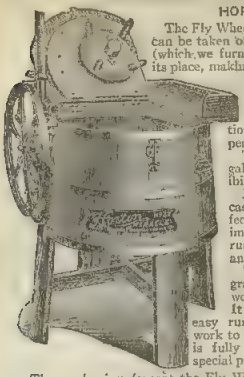
	Each
✣No. OJB—Weight Crated 240 lbs	$50.00

One in a Crate

Items Marked ✣ Not Carried in Stock; Can only be Furnished by Shipping Direct from Factory at St. Louis

WASHING MACHINES

HORTON MIRACLE



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The dolly post is guarded by a galvanized cup, eliminating all possibility of tearing clothes.

Driving gears are cut instead of cast, causing the teeth to mesh perfectly and reduces friction to a minimum. It also makes the machine run much easier, perfectly noiseless, and it will wear much longer.

The tub is made of the highest grade Louisiana Red Cypress (the wood eternal), thoroughly seasoned. It is made larger on account of the easy running mechanism, enabling the work to be done much more quickly. It is fully corrugated on the inside by a special process to avoid splinters.

The mechanism (except the Fly Wheel) is gold bronzed. The Fly Wheel and Hoops are green enameled. The tub has three coats of coach varnish and the name is on a beautiful Decalcomania Transfer. These combinations give the entire machine the appearance of parlor furniture.

Each

No. HM22—Weight each 160 lbs. **$18.00**

One in a Crate

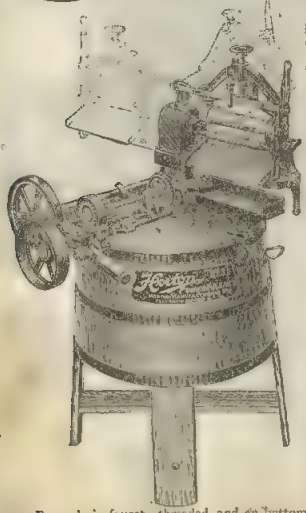
POWER PULLEYS

Each

Extra Power Pulleys for No. HM22 Washing Machines **$3.00**

Loose.

HORTON POWER



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Hardwood Dolly with four extra large pegs and guarded post. Clothes cannot tear.

Brass drain faucet, threaded and on bottom of tub: The tub is made of Louisiana Red Cypress, natural finish; Ball Bearing Wringer, Rolls, 7x10 inches, guaranteed five years.

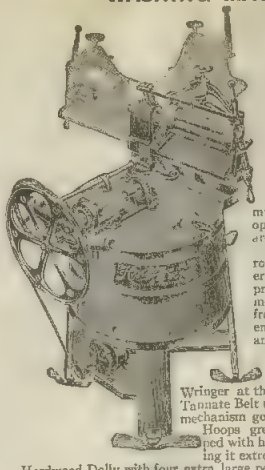
Each

No. 31—Power; For any Kind of Belt Power; Weight 175 lbs. **$50.00**

One in a Crate

WASHING MACHINES

HORTON ELECTRIC WITH NEW THREE-WAY WRINGER



NOTE—Only furnished with 110 Volt Alternating Current Motor unless otherwise specified.

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No. 32—Electric; 110 Volt, Alternating Current; Weight 200 lbs. **$95 00**

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AMERICAN

High Grade Cypress Wood, Varnished.

Each

No. A—Inside Dimensions; Diameter Bottom 23½ inches, Diameter Top 21½ inches, Depth 10 inches. The Inside is Corrugated Around Sides and Bottom, Giving a Good Rubbing Surface; Inside Castings are Galvanized, Outside Castings are Aluminum Bronzed; Oak Legs, Securely Bolted to Body; Weight Each 50 lbs. **$6 50**

One in a Crate.

GLOBE

Each

No. G—Double Rubbers: Galvanized Inside Castings; Aluminum Bronzed Outside Castings; Green Fly Wheel. Inside Dimensions; Length 27½ inches, Width 18 inches, Depth 15 inches; Height Over All 45 inches; Diameter of Fly Wheel 16 inches. Oak Legs, Securely Bolted to Body; Casters on Two Legs. Weight 94 lbs. **$11 00**

One in a Crate

PACKARD TRUCKS

Hauling economy! In building state roads Packard trucks serve and save.

Highway transportation has suddenly assumed vital importance in American business and American war preparations.

To relieve the overburdened railroads and move the vast bulk of war-time freight, federal, state and county governments are co-operating with business men in developing a new and more efficient road hauling.

Where good roads lead, the best motor-trucks can move all but heavy, low-cost materials and products faster and cheaper than the railroads can.

In providing such roads, New York State has pioneered the way. And in building them, the New York Commission of Highways has recognized the economy and dependability of Packard trucks.

Silent, chainless units in seven *right* sizes—all with four-speed transmission. Write Packard Motor Car Co., Detroit. *Ask the man who owns one.*

Packard

PACKARD TRUCKS

Double duty! The more work the larger the economy of Packard trucks

"In spite of constant use for five years—averaging seventy miles a day—our two-ton Packard truck is still in very good condition," says Supt. J. O. Stutsman of the Municipal Farm of Kansas City, Missouri.

"In addition to transporting inmates from the courts to the farm, all its spare time is employed in carrying supplies used on the farm and in delivering the vegetables we raise to the various city institutions. It also carries the farm officers to and from the car lines in the morning and evening.

"Summing up our experience of this advance in economy and municipal service, I believe that it would be impossible to do the same work so advantageously with several teams."

Seven *economical* sizes in silent, chainless trucks—all with four-speed transmission. Phone the dealer in your city or write to Packard Motor Car Co., Detroit. *Ask the man who owns one.*

Packard

COFFEE MILLS

PARKER

Varnished Dovetailed Hardwood Box; Lacquered Bronzed Top and Crank; Sunken Hopper with Slide Cover; Adjustable Chilled Iron Grinders.

VICTOR

Cast Iron Top; Hinged Door; Metal Cup; Capacity One Pound; with Grip Handle.

Per Dozen

No. 541—Box 8 inches High; Base 5x5 inches; Weight per dozen 90 lbs....**$21.00**

Half Dozen in a Case

NATIONAL

Steel Top; Iron Hopper Cover and Grip Handle; Wood Drawer.

Per Dozen

No. 431—Box 4¾ inches High; Base 5x5 inches; Weight per dozen 66 lbs.....**$18 00**

Half Dozen in a Case

NATIONAL

Steel Top; Iron Hopper Cover and Grip Handle; Wood Drawer.

Nos.	401	402
Height Box, inches	4¾	4¾
Base, inches	4½x4½	6¼x6¼
Diameter Hopper, inches	3⅝	5⅝
Weight per Dozen, lbs.	50	73
Per Dozen	$16 50	18.00

Half Dozen in a Case

PARKER

Varnished Dovetailed Hardwood Box; Lacquered Bronzed Top and Crank; Sunken Hopper with Slide Cover; Adjustable Chilled Iron Grinders.

NATIONAL

Wood Top; Cast Iron Hopper Cover and Crank; Wood Drawer.

Nos.	300	301
Height Box, inches	4¼	4¼
Base, inches	4½x4½	6¼x6¼
Diameter Hopper, inches	3⅝	5⅝
Weight per dozen, lbs.	50	76
Per Dozen	$14.50	15.00

Half Dozen in a Case

Varnished Dovetailed Hardwood Box, Lacquered Bronzed Cast Iron Cover and Crank, Sunken Hopper; Adjustable Chilled Iron Grinders, Wood Drawer.

Per Dozen

No. 1010—Box 4¾ inches High; Base 6x6 inches; Weight per Dozen 50 lbs.. **$11 00**

Half Dozen in a Case

Single Grinder, Top Adjustment Nut.

Per Dozen

No. 118—Box 3⅛ inches High; Base 5x5 inches; Hopper 4½x1⅜ inches; Weight per Dozen 40 lbs..... **$9 00**

Half Dozen in a Case

With Single Grinders; Two Adjustment Nuts on Top of Box.

No.	104
Height Box, inches	3
Size of Base, inches	6x6
Size Hopper, inches	4½x1½
Weight per Dozen, lbs.	50
Per Dozen	$12 50

Half Dozen in a Case

PARKER

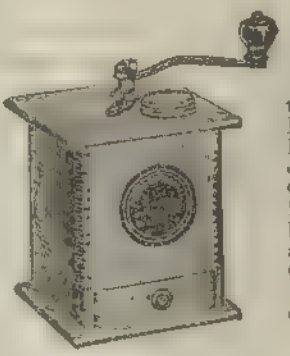
Varnished Dovetailed Hardwood Box; Japanned Iron Hopper and Crank; Adjustable Chilled Iron Grinders.

With Double Grinders; Two Adjustment Nuts on Top of Box.

Per Dozen

No. 25—Box 4¼ inches High; Base 6⅛x6 inches; Hopper 5x3 inches; Weight per Dozen 70 lbs. **$22 00**

Half Dozen in a Case



CANISTER

Varnished Dovetailed Hardwood Box, Lacquered Bronzed Side Handle, Crank and Castings, Wood Drawer, Sunken Hopper; Adjustable Chilled Iron Grinders;.

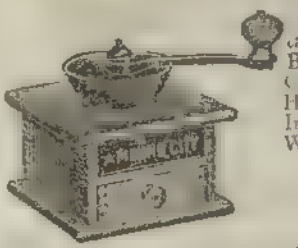
Holds One Pound of Coffee.

Per Dozen

No. PB—Box 7⅝ inches High; Base 6⅝x6⅝ inches; Weight per Dozen 50 lbs...**$12.50**

Half Dozen in a Case

* MOUND CITY



Varnished Dovetailed Hardwood Box, Japanned Cast Iron Raised Hopper; Chilled Iron Grinders; Wood Drawer.

MOUND CITY
TRADE MARK

Per Dozen

No. MC—Box 3¾ inches High; Base 6x6 inches; Weight per Dozen 30 lbs..... **$8 00**

Half Dozen in a Case

CROWN

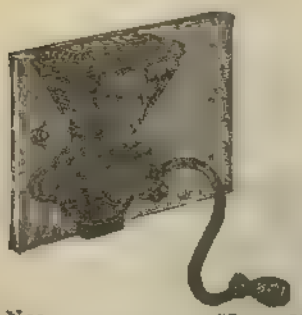
Japanned Sheet Steel Box; Bronzed Iron Cover and Crank; Sunken Hopper, Adjustable Chilled Iron Grinders, Metal Drawer.

Per Dozen

No. 10C—Box 5 inches High; Base 6x5 inches; Weight per Dozen 28 lbs. **$21 00**

Half Dozen in a Case

COFFEE MILLS

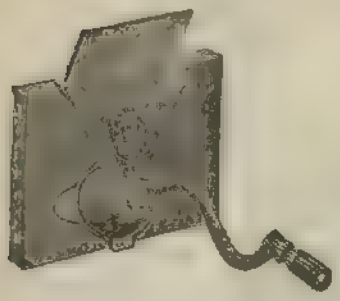


PARKER EAGLE

Black Japanned, Stamped Steel Hopper and Cover; Cast Iron Body and Crank; Adjustable Chilled Iron Grinders; Hardwood Back.

Nos.	50	60	70	80
Width Hopper, In..	5	5	6½	7½
Depth Hopper, In..	3½	4	4	5½
Back, Inches.....	6x8	7x9	7x10	9x12
Weight Dozen, Lbs.	40	50	55	100
Per Dozen.....	$10 00	11 00	13.50	21.00

Half Dozen in a Case



PARKER

Japanned Cast Iron Hopper, Body, Cover and Crank; Adjustable Chilled Iron Grinders; Wood Back.

Per Dozen

No. 1350—Hopper 4 inches Wide, 2¾ inches Deep; Back 7⅜x5⅜ inches; Weight per dozen 34 lbs $8 00

One Dozen in a Case

ROYAL

Japanned Cast Iron; Chilled Iron Grinders; Lock Nut Adjustment; Detachable Iron Cup; No Rivets or Bolts

Per Dozen

No. 77—Height 9 inches; Width 7½ inches; Diameter Hopper 4 inches; Depth 1¾ inches; Weight per dozen 42 lbs..... $8.50

Half Dozen in a Case

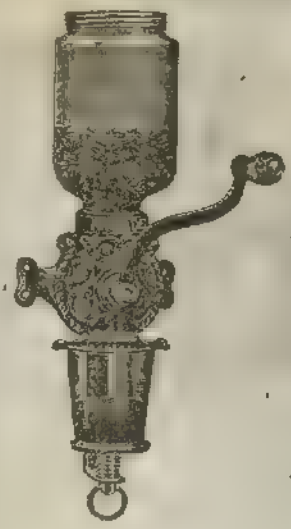
Hopper Holds One Pound of Coffee

Varnished Wood Hopper with Glass Front and Japanned Cast Iron Slide Lid; Chilled Iron Grinders; Front Thumb Screw Adjustment; Japanned Cast Iron Body and Handle; Detachable Iron Cup.

Per Dozen

No. 250—Height 13 in.; Canister 7⅞ x 4½ x 3¾ in., Wood Back 5x11½ inches; Wt. per Dozen 36 lbs..... $13.50

Half Dozen in a Case



CRYSTAL

Hopper Holds One Pound of Coffee; Crystal Glass, Hopper and Cup; Metal Rimmed Glass Screw Cap; Black Enameled Cast Iron Body and Crank; Cup Holder Adjustable for any Size Cup; Adjustable Hardened Cast Grinders; Air Tight Hopper.

Per Dozen

No. C—Height 17½ inches; Diameter Hopper 4½ inches; Weight per dozen 90 lbs..... $21 00

No. CGH—Extra Crystal Glass Hoppers; Weight per dozen 12 lbs..... 5 00

One in a Box; Half Dozen in a Case

PARKER EAGLE

Japanned Tin Hopper, Holds One lb. of Coffee; Gold Striped; Japanned Cast Iron Body and Detachable Tin Cup; Adjustable Chilled Iron Grinders.

Per Dozen

No. 444—Height 14½ inches; Hopper 4⅜ inches Wide, 7 inches Deep; Weight per dozen 38 lbs..... $14 50

Half Dozen in a Case

REGAL

Black Japanned Cast Iron Body, Crank, Tin Hopper and Cup; Holds One Pound of Coffee; Screw Cap; Adjustable Chilled Iron Grinders.

Per Dozen

No. 44—Height 14 in. Hopper 4½ in. Wide, 4½ in. Deep, Weight per Dozen 45 lbs..... $14 00

Half Dozen in a Case

UNIVERSAL

Clamps to Table

Black Japanned Cast Iron Frame and Crank; Gilt lettering; Chilled Cast Iron Grinders; Plain Bearings; Thumb Nut Adjustment; Will Granulate Coffee, Fine or Coarse; Capacity of Hopper 4 ozs.

Per Dozen

No. 0014—Height Above Table 7¾ inches; Height Over All 11¼ inches; Diameter Hopper 3½ inches; Weight each 5 lbs..... $18.00

Six in a Case; Weight per Dozen 66 lbs.

ENTERPRISE

Cast Iron; Painted Black; Red and Gold Striped; Adjustable Chilled Grinders; Detachable Iron Cup, Side Adjustment; Hinged Case; Hopper Holds 4 ounces.

Each

No. 00—Height 9 inches; Width 5½ inches; Hopper 4 inches Wide, 3½ inches Deep; Weight per dozen 62 lbs.. $3 60

Twelve in a Case

Clamps to Table

Cast Iron, Painted Black, Red and Gold Striped; Hardened Cast Iron Grinders Plain Bearings; Thumb Nut Adjustment; Hopper Holds 4 ounces.

Each

No. 0—Height Above Table 9½ inches; Over All 13½ inches; Hopper 3½x4 inches; Weight each 6 lbs..... $4.00

Twelve in a Case

Weight per Case 85 lbs.

With Base

Cast Iron, Painted Black, Red and Gold Striped; Hardened Cast Iron Grinders; Plain Bearings; Thumb Nut Adjustment; Hopper Holds 4 ounces.

Each

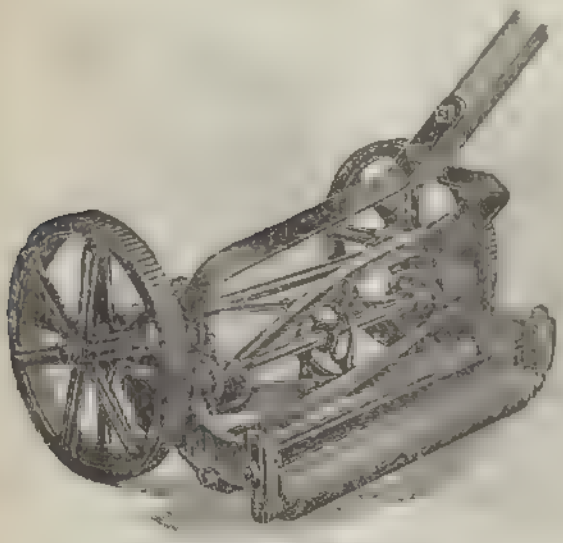
No. 1—Height 12½ inches; Hopper 3½x4 inches; Hardwood Base 6x6½ inches; with Slide Cover and Drawer; Weight Each 10 lbs..... $6.00

Twelve in a Case

Weight per Case, 135 lbs.

LAWN MOWERS

*PATHFINDER—BALL BEARING



Ratchet and Bearing

Stationary Reel; Adjustable Cradle [illegible] and Adjustable Cutter Bar; Malleable Iron Reel Brackets [illegible] Cast Iron Wheels, Side Plates, Gear Cutting [illegible] Bar Plate; Steel [illegible] Bar; Solid Axle; Steel Ball Bearing Cup or Race Securely Set in Each Head, with Tempered Steel Cones Inserted in the Side Plates of the Machine. One of the Cones is Made with Four Holes into which a Wrench Can be Fitted to Take up any Lost Motion in the Reel Shaft. Double Geared Both Sides; Double Steel Spring Pawl Ratchet; Adjustable Hardwood Roller; Wrought Steel Handle Bar, 3⅛ foot Varnished Hardwood Handle with Cross Bar Screwed to Malleable Iron Bracket and Bolted

*PATHFINDER—BALL BEARING

Recommended as a First Class Medium Priced Ball Bearing Mower.

High Wheel; Four Blade Reel

Gold and Silver Bronzed; Crimson Cross Bar and Handle Irons.

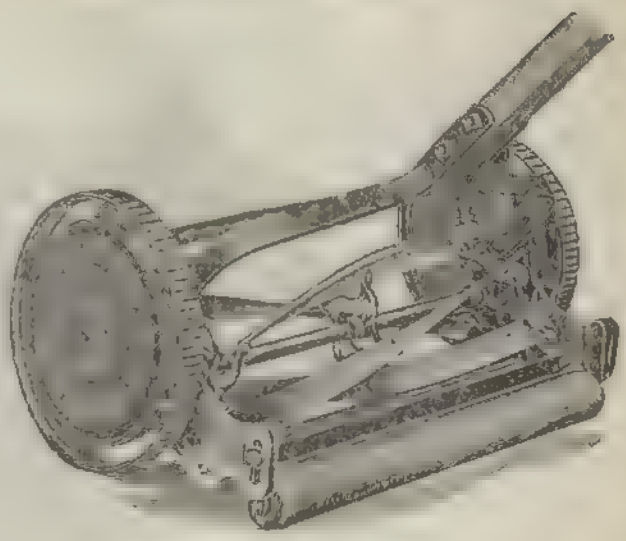
Diameter of Wheels 9 inches; Diameter of Reel 6 inches; Width of Blades 1 1-16 inch; Reel Shaft ⅝ inch; Front Bar ¾ inch.

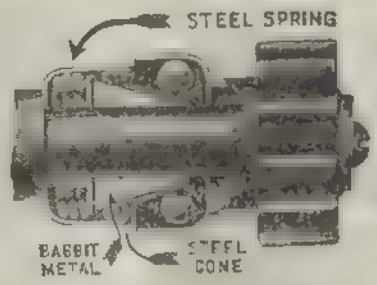
Adjustable to Cut Grass to Lengths of ⅜ to 1¼ inches. Cuts Grass Standing 5 to 6 inches High.

Width of Cut, Inches.....	14	16	18	20
Extreme Width, Inches.....	20 11-16	22 11-16	24 11-16	26 11-16
Weight Boxed, Lbs.....	55	57	60	65
Each.....	$13.50	14 00	14.50	15 50

LAWN MOWERS

*RUGBY—BALL BEARING





Automatic Ball Bearing Adjustment

*RUGBY—BALL BEARING

High Wheel; Four Blade Reel

Finish—Silver Body, Gold Wheels, Decorated in Light Green.

A Splendid Ball Bearing Mower of Medium Weight and Size, Having the "Four-squared" Frame Construction. All Parts Accurately Machined, Second Cut being taken on Each Operation to Insure Machined Surfaces so that they will Assemble without the Least Pressure. Only Machines of First Quality are Used. Best Possible Mixture of Gray Iron Used for the Wheel, Side Plate, Pinion and Cutter Bar Castings, Free from Flaws and Non-brittle. Bottom of Cutter Bar is Planed to a True Surface, so that the Stationary Knife can be Firmly Pressed to it and have a Perfect Bearing.

Malleable Iron Reel Braces are Securely Riveted to the Solid Steel Reel Shaft and Cutting Blades, Forming a Reel Impossible to be Twisted out of Alignment. Adjustable Malleable Iron Roller Brackets, Entering the Roller 2¼ inches. A Cold Rolled Steel Shrub Rod ⅝ inch in Diameter with Turned Shoulders which Fit Snugly into the Side Plates.

The Ball Bearing Cones are of Best Grade Tool Steel Tempered Glass Hard and Will Never Show Signs of Wear. Only Steel Balls of Class "A" are Used, and are German Imported.

Four Cutting Knives of Good Crucible Steel, Carefully Hardened, Water Ground, Shear Cut and Self Sharpening.

Drive Wheels 9 inches; Diameter of Reel 5½ inches; Reel Axle 9-16 inches; Adjustable to Cut Grass to Lengths of ¼ to 1¼ inches. Cuts Grass Standing 5 to 6 inches High. Gear Plate on Both Sides with a Double Sliding Case Hardened Steel Pawl Ratchet. Screw Adjusting. Guaranteed to be the Lightest Running Mower of its Type on the Market. Handle and Roller of Carefully Selected Hardwood Stock, Lacquered to Protect from the Weather.

Width of Cut, Inches.....	14	16	18	20
Extreme Width, Inches.....	19¾	21¾	23¾	25¾
Weight Boxed, Lbs.....	44	47	50	53
Each.....	$11 00	11.70	12 00	12 50

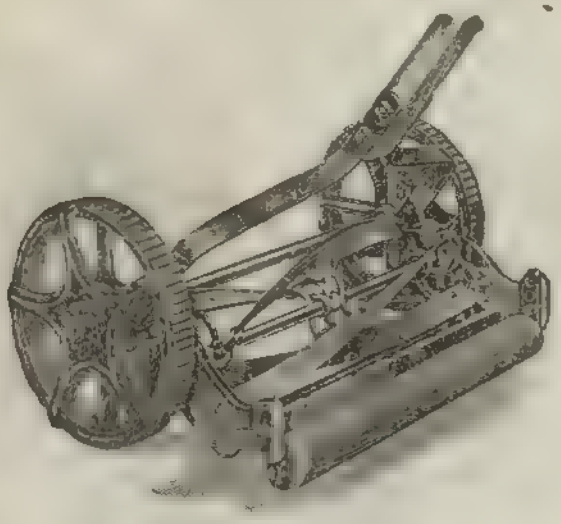
One in a Box; Handles Half Dozen in a Bundle

Extra Parts for Lawn Mowers Not Carried in Stock, Can Only Be Furnished by Shipping Direct From Factory

Use Diamond Oil and *DIAMOND EDGE* Lawn Mower Paste

LAWN MOWERS

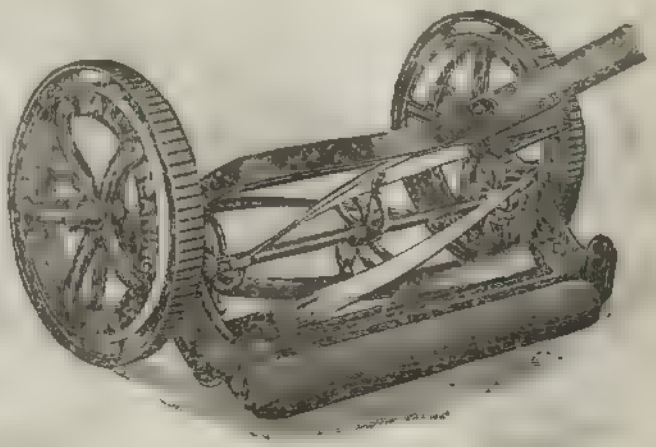
*MOUND CITY—BALL BEARING

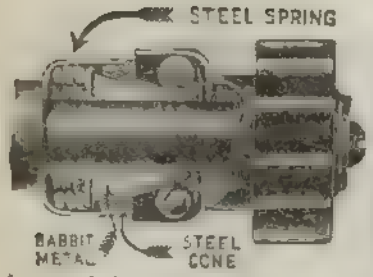


LAWN MOWERS

*BLUEBELL—BALL-BEARING

Bed Plate Adjustment





Automatic Ball Bearing Adjustment.

Automatic Ball Bearing Adjustment—This is the Most Important Invention of Recent Years in Lawn Mower Construction. It consists of a Case Hardened Steel Spring Working Against a Collapsible Babbit Sleeve Around the Shaft and Inside Case. At the Instant all Looseness is Taken up the Sleeve Collapses on the Shaft, thus Preventing any Further Pressure than is Required for the Most Delicate Adjustment, so that the Reel will Always Revolve Freely Throughout the Life of the Mower this Adjustment Continues to Accomodate Itself to Conditions Keeping the Bearings Always Needle Adjusted without the Slightest Attention from the Operator. No Mechanism Depending on the Screw or Touch Can by any Possibility be so Nicely Adjusted. In fact, Devices for Hand Adjustment Often Burn the Ruin of Good Mowers by Those who Do Not Understand. While the Patented Device We Use Automatically Adjusts, it is Completely Enclosed so that an Ignorant Operator Can Not Get at it even though He Tries to do so. No Screws to Lose Out. Always Ready for Service.

Bed Plate Adjustment

*MOUND CITY—BALL BEARING

High Wheel; Four Blade Reel

Finish; Gold and Aluminum Bronze, Trimmed in Light Green, Handle and Roller Shellaced and Varnished.

This Mower is Most Graceful in Outline, Very Light and Easy Running. Careful Workmanship Throughout and all Materials are of Best Grade. Refined Cast Iron Wheels, Side Plates, Pinions and Cutter Bar, Strongly Braced and Reinforced. A 9-16 inch Reel Shaft and ⅝ inch Shrub Rod of Machinery Steel Rolled within .001 of an inch True to Size. The Drive Wheels are Accurately Milled to Fit the Shrub Rod which Passes Through the Side Plates, Forming an Axle for the Wheels. This Feature Permits the Wheels to Revolve Quite Freely.

Machined "Bosses" on the Side Plates Fit Tightly into Recesses in the Cutter Bar which Produces a Very Strong Frame Construction at this Point.

Wide, Deep Cut Teeth on the Inside of the Pinions with Double Lipped, Flat and Durable Tempered Pawls Form a Secure and Easy Operating Ratchet.

The Handle is of Straight Grained Hardwood and is Fastened to the Handle Grip by Means of Two Malleable Iron Brackets and a Joint Bolt.

All Ball Bearing Parts are of Good Quality, the Cones Having an Extremely Deep Case Hardening. An Absolutely Perfect Cylinder is Maintained in the Construction and Grinding of the Reel, so that it Turns Freely in its Bearings, thus Requiring Less Exertion to Operate and also Touches Evenly on the Stationary Knife, Insuring a Smooth Cut Lawn.

Four Cutting Knives of Crucible Steel, Oil Tempered, Self Sharpening and Ground Under Running Water.

Drive Wheels 9 inches; Diameter of Reel 5¾ inches; Adjustable to Cut Grass to Lengths of ¾ to 1¾ inches. Cuts Grass Standing 5 to 6 inches High.

Width of Cut, Inches..	12	14	16	18
Extreme Width, Inches..	18⅝	20⅝	22⅝	24⅝
Weight Boxed, Lbs.....	43	46	49	52
Each.....	$10.50	11.00	11.70	12.00

Drive Wheels, Side Plates and Cutter Bar Castings of the Best Quality Gray Iron. Reel Braces are Malleable Iron Perfectly Fitted and Riveted to Steel Reel Shaft, Making Most Rigid Reel Possible to Build. Roller Bracket is of Malleable Iron Eliminating the Possibility of Breakage.

Cutter Bar Blade and Reel Blades of first Quality Steel—the Best that Money can Buy. All Blades are Oil-Tempered, Self-Sharpening and Ground Under Running Water.

Ball Bearing Parts are of the Highest Quality, the Cones having a Deep Case-Hardening and are Guaranteed never to Show the Slightest Wear.

Our Bluebell Mower is Equipped with our Automatic Ball Bearing Device which is considered the Greatest Improvement in Lawn Mower Construction during the past Ten Years. This Automatic Arrangement Holds the Reel in Perfect Alignment at all times and the Operator Has no Trouble Whatever in Keeping the Mower in Perfect Adjustment.

Handle and Roller are of Straight Grained Hard Wood, Highly Lacquered and Varnished.

Wide Deep tooth pinions work with Tempered Steel pawls making a **Ratchet that is Easy to Operate and Most Durable. Geared on Both Sides.**

All Parts are Carefully Machined and fitted. Wheels Revolve on Steel Bearings. This Mower is Guaranteed to Give Perfect Satisfaction.

Drive Wheels 10½ inches in diameter; Reel 6 inches in diameter with Four Revolving Cutters; Adjustable to Cut Grass to Lengths of 5-16 to 1½ inch. Cuts grass standing 7 inches high.

Handsomely Finished in Blue and Gold.

Width of Cut, In.....	14	16	18	20
Extreme Width, In. 20 19-32	22 19-32	24 19-32	26 19-32	
Weight Each, Boxed.... 50	53	56	59	
Each.....$13.30	14 50	15 50	16 60	

One in a Box; Handles Half Dozen in a Bundle

Extra Parts for Lawn Mowers Not Carried in Stock; Can Only Be Furnished by Shipping Direct From Factory

Use Diamond Oil and *Diamond Edge* Lawn Mower Paste

THE PEERLESS ELECTRIC HOME LAUNDRY MACHINE

The Most Serviceable, Most Satisfactory and RELIABLE ELECTRIC MACHINE ON THE MARKET.

Especially low-priced by us—within the reach of all

By Purchasing an Electric and dispensing with services of Washerwoman, cost is met within a period of one half year

Electric Home Laundry Machine

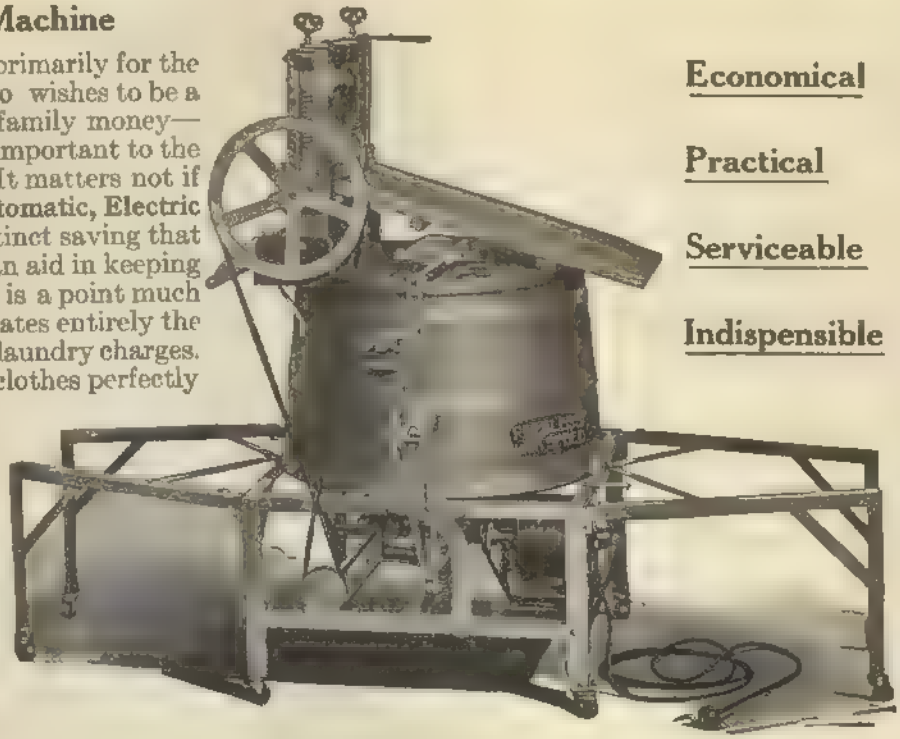
THE ELECTRIC WASHER is made primarily for the up-to-date woman—the housewife who wishes to be a real help-mate. It saves her and her family money—wearing apparel—and what is more important to the busy head of the household—time. It matters not if the home be large or small, this **Automatic, Electric Home Laundry Machine** creates a distinct saving that is quickly noticeable. It is certainly an aid in keeping good servants in the large home, which is a point much desired. In the small home it eliminates entirely the extra cost of wash-day help, or excessive laundry charges. Most important of all, it washes the clothes perfectly clean and does not damage them in any manner. Especially will the woman who has been paying all the way from fifty cents to three dollars per week for extra wash-day help, or in laundry charges, appreciate the saving effected by the use of this Electric Washer. This saving in money is, of course, of even greater moment in the small household than it is in the large one and it is easy indeed, to understand that such saving in actual money is great enough to pay the initial cost of one of these machines, in less than a year's time.

Economical

Practical

Serviceable

Indispensible



Model A Electric Washer—No Extension
Model B Electric Washer—With One Extension
Model C Electric Washer—With Two Extensions

This is the "Peerless" Electric (Model C) No. 3504, with two Steel Extensions for holding extra tubs for rinsing. When extensions are not in use it is folded flat and is entirely out of the way.

No. 3502	Model A Electric Washer (No Extension). Each	...$119 00
No. 3503	Model B Electric Washer, with One Extension. Each.. .	122 75
No 3504	Model C Electric Washer, with Two Extensions, as illustrated Each . . .	.. 128 50

In order to insure prompt shipment, SPECIFY CURRENT, VOLTAGE, and CYCLES.

Facts About The Peerless

THE STEEL EXTENSION for holding extra tub is hinged to the side of the frame and provides a substantial support for the tub. When not in use this extension is folded close against frame and is entirely out of the way. The complete machine then occupies no more space than the ordinary one-tub electric. The extension is optional, that is, it can be supplied with the machine, if desired, at a slight extra price or it will be omitted altogether.

BALL BEARING WRINGER. The wringer furnished is of the highest grade obtainable, nicely finished and fitted with ball bearings. The rubber used in the rolls is not scrap rubber such as is used in many cheap wringers, but is of the very best quality and with proper care will give years of satisfactory service. This wringer is fitted with a new and patented device convenient to the hand which allows the rolls to be relieved of all pressure instantly, as is sometimes necessary, should the operator carelessly catch her fingers, or if for any other reason it is desired to relieve the rolls of pressure quickly. The wringer is connected with the motor by means of a quiet, smooth running belt, which is crossed, as shown in the illustration, in order to get the most secure grip on the pulleys. A simple, easily operated lever handle at the side of the tub controls this wringer so that it is started, stopped or reversed instantly, at the will of the operator

COST OF OPERATION. In operation this Washing Machine is simple in the extreme. After connecting the extension cord to an ordinary electric light socket the agitator is started by pulling towards you the lever handle nearest to the front of the machine. The wringer is started by pushing the lever nearest to the wringer towards the back of the machine, and is instantly reversed by pulling this same lever towards the front of the tub as far as it will go. The cost of operation is very light—less than two cents per hour for electrical current consumed. As the average family washing can be finished complete in from two to three hours time the total cost for electricity will never be more than ten cents per week.

IN CONSTRUCTION AND FINISH this machine is unexcelled. It is very simple and all the mechanism is perfectly fitted and very strong. With proper care the "Peerless" Electric Home Laundry Machine will last for many years. The tub is made of selected Southern Cypress—"the wood everlasting"—is well built and is finely finished with good quality varnish. All of the mechanism and gearing as well as the motor is placed underneath the tub on a rigid steel frame. All metal parts are sherrardized. This finish is much more attractive than paint and as it will not peel or check, will last for a life time and effectually prevent rust

THE FRAME OR STANDARD is made of angle steel, the different pieces being securely riveted to each other, forming an exceedingly strong and rigid frame, which at the same time is not heavy nor cumbersome. The entire frame has sherrardized non-rust finish and is mounted on strong steel castors, which allows the machine to be readily moved from place to place.

AN EXTRA DRAIN BOARD is supplied, if desired, at a small additional charge. It is in addition to the regular drain board supplied with wringer and is used when wringing clothes across the machine from the rinsing water to the bluing water, and from the latter to the clothes basket.

THE MOTOR. The electric motor is of ample strength to run the wringer and washing machine at the same time. It is the best motor manufactured today and is built in accordance with our specifications for use on the "Peerless" Washer. All of these Electric Machines are regularly equipped with motor for use on alternating current, 110 volt, 60 cycle electric systems, as these specifications are proper for practically all the electric light systems today. The "Peerless" Machine can be furnished, however, with motors for use on any odd voltage or odd cycle systems. In order that the proper motor shall always be sent, we request that orders for electric machines specify current, voltage and cycles

THE PEERLESS HIGH SPEED WATER MOTOR WASHING MACHINE

$36.90 SAVES TIME, STRENGTH AND NERVES, ALWAYS READY **$36.90**

Washes Clothes White as Snow, Reliable and Willing

Just Attach Hose — Turn on Water — That's All

DESCRIPTION

THE MOTOR. The "Peerless" water motor is gearless. This prevents noise and lost motion and insures the easy running qualities that are absolutely necessary in a motor that will operate, as does this one, on a very low water pressure. It has no frictional parts; it is self-draining and non-freezing; requires no oiling; will not wear, rust or stick. The bearings are non-metal

THE TUB. The tub is well built of highly finished, selected cypress and will hold fifteen gallons of water. If given reasonable care, it will not warp or shrink.

THE ADVANTAGES. The "Peerless" water motor washing machine is the greatest labor saving device for womankind that has ever been invented. The motor does all of the work. You do nothing except filling and re-filling the tub until the washing is completed. All drudgery is eliminated on wash day with the families blessed with our "Peerless" water motor washer.

The "Peerless" Water Motor Washing Machine, adapted to low pressure, no gears, no spring, no complications.

No. 3500 Peerless High Speed Water Motor Washing Machine..... **$36.90**

$27.40 THE PEERLESS Ball Bearing, High Speed WASHING MACHINE **$27.40**

No. 3501 Peerless High Speed Hand Power Washing Machine **$27.40**

Facts About The Peerless Ball Bearing—High Speed Washing Machine

In the construction of the "Peerless" Ball Bearing High Speed Washing Machine we have embodied every possible convenience and advantage that mechanical ingenuity and skill can produce in a high-class washing machine.

During our forty years' experience in the manufacture of highest quality family sewing machines, with which the whole world is now familiar, we have established an enviable reputation. This same skill and ingenuity—this invaluable experience of two score years, has enabled us to produce the "Peerless" Washer—a machine that stands at the head of all strictly first-class, high speed washers.

All metal parts are finished with the electro galvanizing process—it is an attractive finish that will not wear and cannot rust

The "Peerless" Washing Machine runs so easily that a mere child can operate it.

The "Peerless" Washing Machine is guaranteed against defective workmanship and material for a period of five years.

The tub is strongly built of well finished, select material—with reasonable care it will last for years.

The ball bearing is a simple and most effective device. It is absolutely the easiest running bearing that can be made, and is so constructed that it will wear for years without oiling or adjustment.

The compound lever construction in connection with the Walking Beam and the exclusive ball bearing gives the "Peerless" such a decided advantage that it requires but one-half the labor to operate it that is necessary with other makes.

This type, namely the high speed washer with balance wheel, has proved to be the most practical and easiest running washing machine devised. The improvements we have embodied in the "Peerless" Washer, place it in the van of all machines of this particular type.

The washing machine is recognized as a necessary equipment in the small homes This is evidenced by the following article which we quote from the "Ladies' Home Journal," issue of February 15, 1911:

"If the washing machine is a luxury, why put it in the small house? The answer is: A washing machine is no longer considered a luxury, where actual economy is practiced—economy of wear, of tear, time and labor. As a matter of fact a washing machine which may cost no more than a sewing machine, and is quite as useful, is of more moment in the small house than it is in the large house, for economy is more vital in the former. It will minimize labor, expenditure, and maximise convenience. With a good washing machine one can do one's own washing and need not depend on a washer woman. Hand scrubbing cannot compete with it."

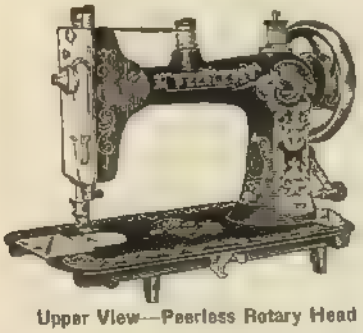
THE RELIABLE IMPROVED PEERLESS SEWING MACHINES

Only the Best Materials and Most Skilled Workmanship Enter into These Machines

Almost any machine may present an attractive outward appearance, but the real test is in the service given by constant every day use. The machine with defective material or inferior workmanship soon tries the patience of the operator, while the machine made of reliable and tested material by the skilled hands of mechanics who are experts in this particular line, is a constant source of joy and satisfaction to the operator.

DESCRIPTION OF THE IMPROVED PEERLESS ROTARY

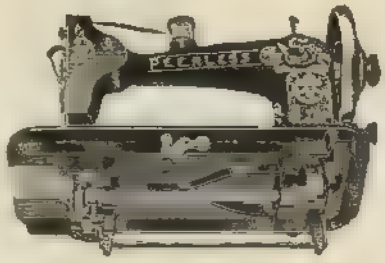
WITH AUTOMATIC TENSION



Upper View—Peerless Rotary Head

In one vital point the Improved Peerless Rotary towers head and shoulders over other machines of similar construction. That point is the truly wonderful automatic tension which adjusts itself automatically to any kind and size of thread without any attention whatsoever from the user. This means the certain absence of the tension troubles common to the ordinary machine—it means a perfect and even stitch at all times and on all classes of goods. The Improved Rotary is the only machine of its type having this invaluable improvement.

The Improved Peerless Rotary, as its name indicates, embodies the rotating principle of construction throughout. It makes the double-lock stitch but unlike sewing machines, the lower stitch-forming mechanism has a continuous rotary motion which is entirely free from the vibration of reciprocating machines. By reason of this it may be run at a general higher and runs one-third faster, thereby saving just that much time for the operator. The high arm head is handsomely finished, the surface being covered with three coats of brilliant black enamel, ornamented with beautiful imported decalcomania.



Under View—Peerless Rotary Head

The double four-motion feed is positive in its action and can be instantly adjusted for any desired length of stitch. The hook, which performs the function of a shuttle, rotates on the outer side of the steel chamber containing bobbin and case, the thread being drawn off once in every revolution to form the stitch. The stitch forming mechanism is so arranged that it is absolutely impossible for the machine to clog, an annoying complaint experienced by users of other sewing machines of similar construction. Another splendid feature is the ease with which the bobbin may be removed and replaced from above by opening the large hinged plate, which allows ample room for the insertion of one's hand for the desired purpose. In this particular respect, as in many others, the Improved Peerless Rotary is in a class by itself.

In finish, in style, in equipment, in labor saving conveniences, in wide range of work, in easy running and perfect stitching qualities, in efficiency and in durability the Improved Peerless Rotary has no rival. A trial will convince you such is the case.

THE MANUFACTURERS' BINDING WARRANTY ON ALL OUR PEERLESS SEWING MACHINES AFFORDS YOU ABSOLUTE PROTECTION

Should any part prove defective or even anything go wrong, the manufacturers will positively make good free of charge during the long period of 10 years (the life of GUARANTEE).

THE PEERLESS ROTARY CABINET MACHINE

The Highest Grade Cabinet Machine on the Market Today

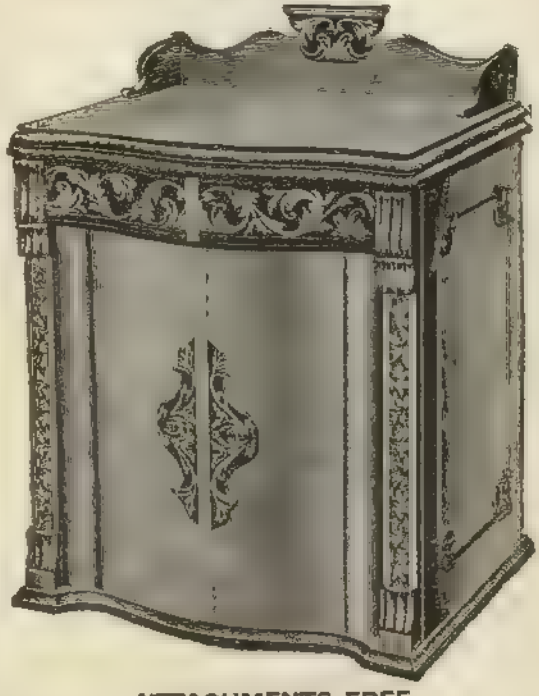
Of extraordinary merit, every late improvement, every time and labor saving feature, we offer rare value in this positively highest grade cabinet machine.

Finished in Rich Golden Oak

DESCRIPTION OF CABINET

The Boudoir Cabinet is typical of the highest achievement of the wood craftsman's art. The design is most artistic indeed, and as the wood utilized in the construction is selected quarter-sawed oak, which is treated with our special mirror finish, the cabinet is in keeping with the luxurious furnishings of the modern home. Graceful columned corners and exquisitely grained panels in the side and door complete the general effect of quality and luxury.

All Orders Filled Same Day Received—No Delay



DESCRIPTION OF CABINET

Our double lever device raises the sewing head automatically to position. The stand mechanism is enclosed in the dust-proof box and when the paneled door is opened, is immediately accessible for use. A commodious drawer attached to the inner side of the door affords ample room for the steel foot attachments.

Read Description of the Improved Peerless Rotary above

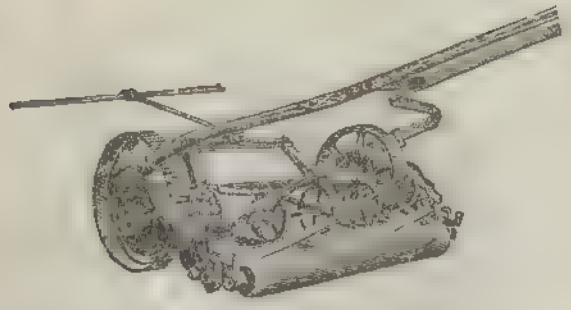
ATTACHMENTS FREE

With each machine there is supplied entirely free of charge a full and complete set of steel foot attachments packed in a well finished, highly polished, velvet lined metal box. The following pieces are included in the set: Ruffler, tucker, binder, braider, under brailer, four hemmers of different widths, feller, shirring slide, cloth guide, four bobbins, six needles, two screw drivers, filled oil can and well illustrated book of directions.

No. 4000 Peerless Cabinet Machine with Rotary Head . . . . Price Complete $85.10

HORSE AND PONY LAWN MOWERS

PENNSYLVANIA



Painted Green and Red with Gold Bronze Striping

High Grade Cast Iron Frame, Drive Wheels and Gear Casings, Malleable Iron Reel Bracés; Crucible Tool Steel, Oil Tempered Revolving Reel Blades, and adjustable Bed Knife; Full Braced Steel Handles.

PONY OR TWO-MAN

For use of Pony or Two Men on Large Lawns and where the Surface is Broken by Walks and Shrubbery or is too Hilly for Regular Horse Mower. Triple Geared on both Sides, 12 inch Drive Wheels; ⅝ inch Steel Axle; 1 inch Tubular Front Bar, Upturned Bed Knife, with Front Draft Attachment for Pony or Horse. Adjustable to Cut Grass to Lengths of ½ to 2 inches.

Four Reel Blades

	Each
No. 25—Width of Cut 25 inches, Diameter of Reel 6¾ inches; Extreme Width 35 inches; Weight Boxed about 150 lbs.	**$95 00** 50.00

One in a Crate

✣HORSE MOWERS

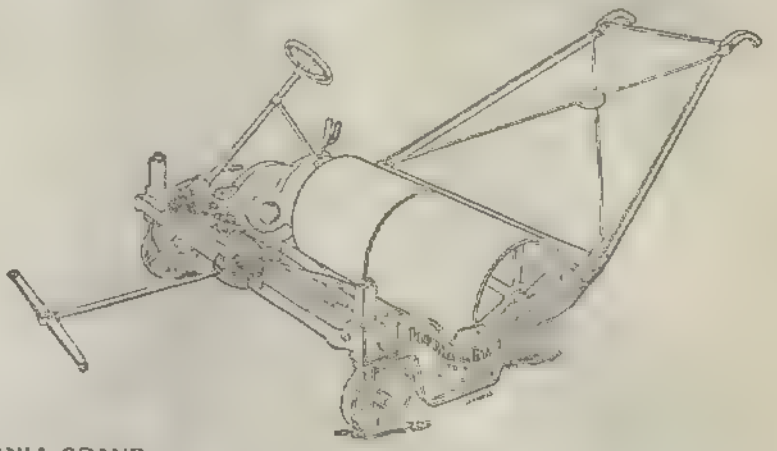
Triple Geared on One Side Only; Diameter of Reel 11½ inches, Double Cast Iron Rollers 11½ inches in Diameter; Cast Iron Guide Rollers 4½ inches in Diameter, Malleable Iron Cross Bar or Draft Iron 32 inches long; Wrought Iron Steel or Draft Iron 38 inches long, U Steel Draft Iron with Levers to throw Blades out of Gear.

Four Reel Blades

Nos.	✣30	✣38
Width of Cut, Inches	30	38
Extreme Width, Inches	37	44
Length of Roller, Inches	26	34¼
Weight, Boxed, Lbs.	360	370
Each	$ 00	130 00
	190.00	247.00

Extra—With Seat and Side Draft Shaft add **$38.00** 20.00

One in a Crate



PENNSYLVANIA GRAND

Aluminum and Gold Bronze Finish

Heavy Cast Iron Frame, Malleable Iron Reel Bracés, Front Bar, Adjusting Levers, Caster Stems and Cylinder Ends, Crucible Tool Steel, Oil Tempered, Self Sharpening Blades, Cast Steel Pinions, Wrought Steel Handles, Drop Steel and Malleable Wheel Discs, Cast Iron Seat Spring Steel Seat Supports and Formed Tubular Steel Arm Pads, Enameled Duck Cover, Detachable Adjusting Front Roller, Ball Bearings and Dust Plates, the Wear on Blades Evenly Distributed across Entire Cutting Edge by Improved Reel Motion; the Height of Cut is controlled by the Hand Wheel and can be Changed, while Machine is in Motion, to any Length from ¾ inch to 2½ inches

Diameter of Reel 7½ inches; Diameter of Cylinder 15 inches

With Shafts, Seat and Handles

Wood Foot Rest Over Wheels

Nos.	✣GC304	✣GC306	✣GC384	✣GC386
Width Cut, Inches	30	30	38	38
Number of Reel Blades	4	6	4	6
Extreme Width, Inches	41	41	49	49
Weight, Crated, Lbs.	635	645	720	750
Each	$120 00	122 50	150 00	162 50
	228.00	**251.80**	**285.00**	**308.80**

One in a Crate

With Draft Irons and Handles Only

Width of Cut 30 inches

Nos.	✣G304	✣G306
Number of Reel Blades	4	6
Extreme Width, Inches	41	49
Weight, Crated, Lbs.	595	605
Each	$100 00	112.50
	190.00	**213.80**

One in a Crate

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Philadelphia, Pa.

LAWN TRIMMERS

PENNSYLVANIA UNDER-CUT

This Machine is the Only One to Successfully Replace the Use of Hand Shears. The Slanting Side Plate and Conical Cylinder Make it Possible to Cut all the Grass Left by the Regular Style of Lawn Mower. The Unique Construction of the **Under Cut Trimmer** Permits Cutting, Not Only Close up to a Wall, Fence, Tree, etc., but it will Get the Grass under a Fence or Rock-cut Base of Tombstones, House Foundations, and Other Places Hitherto Out of Reach of Anything but Hand Shears. For Cemeteries it has the Special Advantages of Not **Marking or Smudging** the Tombstones, as the Side Plate Does Not Come in Contact with the Stone Above the Grass Line.

Ball Bearing, Self Sharpening, Light Weight, Four Blade Cylinder

Each

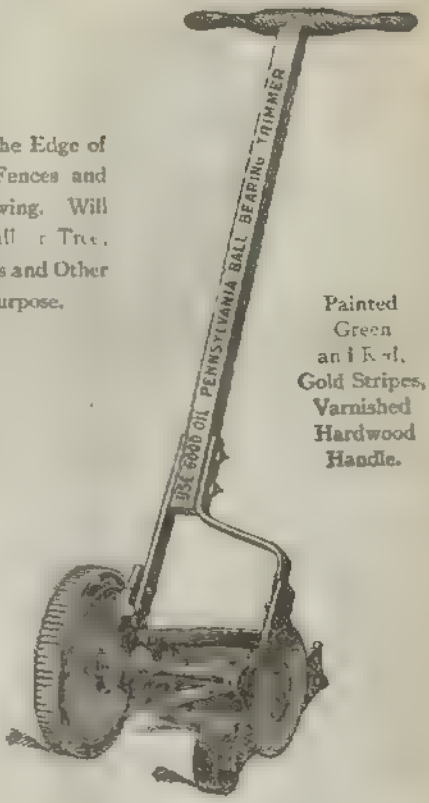
No. PX -Drive Wheel, 9½ inches. Ball Bearing Cylinder with Four Tempered Crucible Steel Blades, 6½ inch Cut. Shipping Weight, Including Handle, 32 lbs. Net Weight 23½ lbs., Including Handle. **$14.00**

One in a Box

PENNSYLVANIA

For Cutting Grass Left at the Edge of Lawns, Close up to Walls, Fences and around Trees, etc., after Mowing. Will Cut to Within ¾ inch of Wall or Tree. Takes the Place of Grass Shears and Other Devices Employed for this Purpose.

Ball Bearing Adjustable Reel



Painted Green and Red, Gold Stripes, Varnished Hardwood Handle.

Crucible Tool Steel Blades; **Self Sharpening**; Cast Iron Wheel and Side Plates; Malleable Reel Braces.

Each

No. PLT—6 inch Cut; 4 Blades, **Extreme Width** 13¼ inches; Weight Boxed 25 lbs..... **$12.00**

STOVER

A perfect and Convenient Implement for Trimming Around Trees and Shrubbery and Along Walls and Other Places that Cannot be Reached with the Lawn Mower. **Does all the Cutting** ahead of Drive Wheel and Cuts **any Height Grass. Takes the Place of the Old Fashion, Hardworking, Unsatisfactory** Hand Grass Shears, and when once used and its Advantages and Utility known it will be found an Indispensable Lawn Tool.

Per Dozen

No. LT Malleable Iron Wheels and Frame, Cast Steel Knives, Stained Hardwood Handle Bolted to Frame, Oil Holes to Keep Machine in Good Running Order; Neat and Attractive in **Appearance, with Gold Bronzed Wheel and Cutting Knives with Green Trimmings**; Diameter of Wheels 7¼ inches, Width of Cut 6 inches, Length of Knife Teeth 5½ inches; Length of Handle 39 inches; Weight per Dozen 75 lbs..... **$12 20**

Third Dozen in a Carton; Handles Separate

PENNSYLVANIA
Quality
LAWN MOWERS

THERE are several vital reasons why "PENNSYLVANIA" *Quality* Lawn Mowers have maintained, for over 50 years, their high reputation for easy running, long life and thorough satisfaction.

They are:

—highest grade materials used throughout;

—*every* bearing carefully bored and reamed to size;

—*every* blade made of crucible tool steel, oil hardened and water tempered;

—three final inspections insure easy running and positive self-sharpening.

Sold by Hardware Dealers and Seedsmen.

PENNSYLVANIA LAWN MOWER WORKS
JOHN BEARDSLEY & SONS
FOUNDED 1817 PHILADELPHIA

This trade mark is on the handles of:

"Pennsylvania"
"Pennsylvania, Jr."
"Pennsylvania Golf"
"Pennsylvania Putting Greens Mower"
"Continental"
"Great American B. B."
"Shock Absorber"
"Quaker City"
"Red Cloud B. B."
"Orchid B. B."
"Daisy"
"New Belmont"
"Bellevue"
"Panama"
"Delta B. B."
"Electra"
"Pennsylvania Pony"
"Pennsylvania Horse"
"Pennsylvania Grand Horse"
"Pennsylvania Trio Horse" (86 in. cut)

FOOD WILL WIN THE WAR!

PENNSYLVANIA *Quality* LAWN MOWERS

PENNSYLVANIA *Quality* Lawn Mowers have maintained a reputation for easy-running long life and thorough satisfaction for half-a-century.

Nearly a million and a half have been sold in this country and abroad.

There are several vital reasons—highest-grade materials throughout; *every* bearing carefully bored and reamed to size; *every* blade made of crucible tool-steel, oil-hardened and water-tempered. Three final inspections insure easy running and positive self-sharpening.

CATALOG ON REQUEST

PENNSYLVANIA LAWN MOWER WORKS
JOHN, BRAUN & SONS
FOUNDED 1877 PHILADELPHIA

This trade mark is on the handles of:

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"Panama"
"Delta"
"Electra"
"Pennsylvania Pony"
"Pennsylvania Horse"
"Pennsylvania Grand"
"Pennsylvania Trio"

PENNSYLVANIA
Quality
LAWN MOWERS

AN economical mower is one which gives superior constant service and lasts.

The 1,500,000 "PENNSYLVANIA" *Quality* Lawn Mowers sold, have proved their economy.

They run easily—do not drag. The design carries them *over* the ground freely—the material and construction of the bearings reducing friction.

They cut clean—the *quality* of steel in the blades *keeps* the edges ground by the self-sharpening device.

A man can mow more lawn and better, with a "PENNSYLVANIA" *Quality* Lawn Mower.

Sold by Hardware Dealers and Seedsmen.

FREE A booklet—"How to Care for the Lawn"—written by an authority, mailed on request.

PENNSYLVANIA LAWN MOWER WORKS
JOHNSON, FOULKROD & JOHNSONS
FOUNDED 1877 PHILADELPHIA

This trade mark is on the handles of:

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"Pennsylvania, Jr."
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"Pennsylvania Putting Greens Mower"
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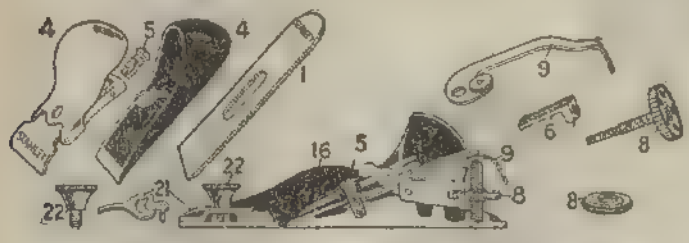
"Electra"
"Pennsylvania Pony"
"Pennsylvania Horse"
"Pennsylvania Grand Horse"
"Pennsylvania Trio Horse" (86 in. cut)

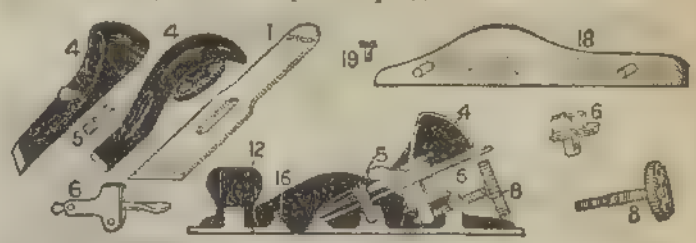
PLANE PARTS

In Ordering Always Give Kind and Number of Plane for Which Part is wanted as well as the Figure Number of the Part Wanted. Ten Cents will be the Minimum Charge of any Part Sent by Mail.

NOTE—Prices Shown on this Page are Manufacturers Lists. Quotations upon Request.



Cut Shows Parts for Bailey and Stanley Block Planes.



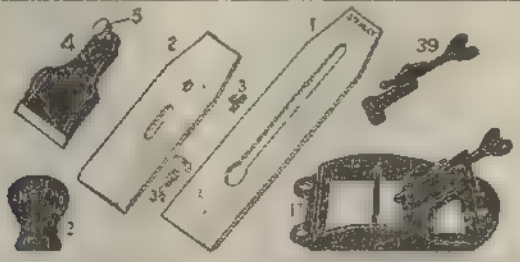
Cut Shows Parts for Stanley Block Planes.

PARTS FOR BAILEY AND STANLEY BLOCK PLANES

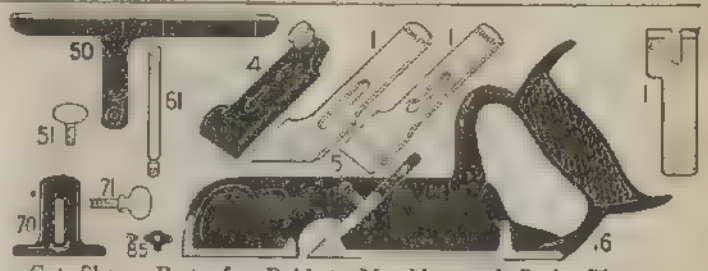
No.	Name of Part — Plane Nos.	9½ 9¾	15, 15½	16, 17	18	19	60	60½	61	65	65½
1	Single Plane Iron	$0 36	$0 36	$0 36	$0 36	$0 36	$0 36	$0.36	$0.36	$0 36	$0 36
4	Lever Cap	.10	.10	.15	.20	.20	.15	.10	.15	.15	.10
5	Lever Cap Screw	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05
6	Frog Complete	....	....	....	....	....	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10
7	Adjusting Lever	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	....	....	....	....	....
8	Adjusting Nut	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10
9	Lateral Adj. Lever	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	....	....	....	....	....
11	Plane Handle	✣ .25	✣ .25	....	....	....	....	....	....	....	....
16	Plane Bottom	✣ .70	✣ .75	✣ .75	✣ .70	✣ .75	✣ .60	✣ .60	✣ .60	✣ .75	✣ .75
21	Eccentric Plate	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10
22	Finger Rest Knob	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10

PARTS FOR STANLEY BLOCK PLANES

No.	Name of Part — Plane Nos.	100 101	102	103	110	120	130	131	140	203	220
1	Single Plane Iron	$0 12	$0 20	$0 20	$9 29	$0 36	$9 29	$0.36	$0.40	$0.36	$0 36
4	Lever Cap	✣ .05	✣ .10	.10	.10	.10	.10	.10	.15	.10	.10
5	Lever Cap Screw	....	....	....	....	....	....	✣ .05	✣ .05	✣ .05	✣ .05
6	Frog Complete	....	....	....	....	✣ .15	....	✣ .15	✣ .10	✣ .15	✣ .10
8	Adjusting Nut	....	....	....	....	....	....	✣ .10	✣ .10	✣ .10	✣ .10
12	Plane Knob	....	....	✣ .10	✣ .10	✣ .10	✣ .10	✣ .15	✣ .15	✣ .10	✣ .10
16	Plane Bottom	✣ .10	✣ .15	✣ .20	✣ .25	✣ .30	✣ .35	✣ .70	✣ .75	✣ .25	✣ .30
18	Detachable Side	....	....	....	....	....	....	....	✣ .25	....	....
19	Side Screw (Pair)	....	....	....	....	....	....	....	✣ .10	....	....



Cut Shows Parts for Lever Adjustment and Special Planes



Cut Shows Parts for Rabbet, Matching and Dado Planes.

PARTS FOR STANLEY LEVER ADJUSTMENT AND SPECIAL PLANES

No.	Name of Part — Plane Nos.	104	105	122	127	129	132	135	340	62	97
1A	Double Plane Iron	✣$0 45	✣$0 45	✣$0 38	✣$0 45	✣$0 38	✣$0 40	✣$0 45	....	$1 00	....
1	Single Plane Iron	✣ .27	✣ .27	✣ 23	✣ .27	✣ .29	✣ .32	✣ .27	✣ .30	✣ .30	✣ .45
2	Plane Iron Cap	✣ .18	✣ .18	✣ 15	✣ .18	✣ .19	✣ .18	✣ .18	....	....	....
3	Cap Screw	✣ .05	✣ .05	✣ 05	✣ .05	✣ .05	✣ .05	✣ .05	....	....	....
3½	Adj. Stud & Nut	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	....	....	....
4	Lever Cap	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ 15	✣ .15
5	Lever Cap Screw	....	....	....	....	....	....	....	✣ 05	✣ 05	✣ .05
11	Plane Handle	✣ .20	✣ .20	....	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .30	....
12	Plane Knob	✣ .15	✣ .15	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .15	✣ .15	✣ .15
13	Handle Bolt & Nut	✣ 10	✣ 10	....	✣ 10	✣ 10	✣ 10	✣ .10	✣ .10	✣ .10	....
14	Knob Bolt & Nut	✣ .10	✣ .10	....	....	....	....	....	✣ .10	✣ 10	✣ .10
15	Plane Handle Screw	....	....	....	✣ .05	.05	✣ 05	✣ 05	....	....	....
16	Plane Bottom	✣ .85	✣ 1 35	✣ .40	✣ .45	✣ .70	✣ .85	✣ .40	✣ .80	✣ 1 75	✣ 1.00
17	Top Casting	....	....	✣ .30	✣ .30	✣ .30	✣ .30	✣ .30	....	....	....
21	Eccentric Plate	....	....	....	....	....	....	....	....	✣ 10	....
22	Finger Rest Knob	....	....	....	....	....	....	....	....	✣ .25	....
39	Lever Adjustment	✣ .20	✣ 20	✣ .20	✣ .20	✣ 20	✣ .20	✣ .20	....	....	....

PARTS FOR STANLEY RABBET, MATCHING AND DADO PLANES

No.	Name of Parts — Plane Nos.	39	48	49	78	289	*146	*147, 148	*171	180, 182	190, 192
1	Single Plane Iron (*)	✣$0 20	✣ 20	✣$0 20	✣$0 20	✣$0 15	✣$0 05	✣$0 05	✣$0 11	✣$0 20	✣ 20
4	Lever Cap	✣ .10	✣ .10	✣ .10	✣ .10	✣ .10	✣ .15	✣ .15	....	✣ .10	✣ .10
16	Plane Bottom	✣ 1.20	✣ 1.20	✣ 2.00	✣ 1.00	✣ 1.20	✣ 1.50	✣ 1 50	✣ .90	✣ .75	✣ .90
50	Fence	....	✣ .50	✣ .50	✣ .25	✣ .20	....	....	✣ .30	....	....
51	Fence Thumb Screw	....	....	....	✣ .05	✣ .05	....	....	✣ .05	....	....
61	Short Arm	....	....	....	✣ .10	✣ .10	....	....	✣ .20	....	....
70	Adj. Depth Gauge	✣ .20	....	....	✣ .20	✣ .20	....	....	....	✣ .20	✣ .20
71	Depth Gauge Th. Screw	✣ .10	....	....	✣ .10	✣ .10	....	....	....	✣ .10	✣ 15
85	Spurs with Screws	✣ .10	....	....	✣ .05	✣ .05	....	....	....	....	✣ .10

Items Marked ✣ Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory, New Britain, Conn.

FLOOR SCRAPERS

One Man Can Scrape on an Average of 1000 to 1200 Square Feet of any Kind of Hardwood in a Day of 8 Hours.

★*Diamond Edge*

This Scraper is intended for use on Large Surfaces. The Knife Scrapes the Floor when the machine is drawn toward the Operator. Has **Adjustable Cross Handle** which allows the Operator to Work up to the Wall and into the Corners. When the Machine is in operation about 85% of the Weight is resting on the Blade; when not in operation the Weight is so perfectly Balanced on the Wheels that the Blade is clear of the Floor.

The Frame is carried on Two Rubber Tired Wheels working independently of each other. Knife is firmly Clamped in the Scraper, which, together with the weight of the Machine, nearly all of which rests on the Knife, prevents Vibration or Chatter, doing away with all Wavy effects on the Floor.

Very Strong and Durable, Cast Iron Frame; Aluminum Finish, Forged Steel Handle Braces; Varnished Hardwood Handle and Grip, Tempered and Honed Steel Blades.

Complete with One Curved Scraper Blade; Two Straight Scraper Blades; one No. 2 Burnisher; one DE25 Hand Scraper; one DE20 Wrench; One DE 8-inch Mill File, One DE5 Oil Stone.

Each

No. DEL200—Width of Cut 6 inches; Diameter of Wheels 5 inches; Size of Handle Braces ⅞x¼ inches; Length of Handle 38 inches, Length over All 57 inches. Weight Complete 95 lbs. **$23 00**

One in a Case.

EXTRA BLADES FOR *Diamond Edge* FLOOR SCRAPERS

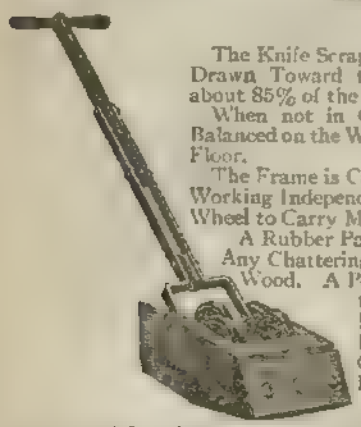
Per Dozen

No. DE1200CB—Curved Blades Size 6x2½ inches; Weight per Dozen 2¼ lbs. **$3 50**

No. DE1200SB—Straight Blades; Size 6x2¼ inches, Weight per Dozen 2¼ lbs. **6 00**

Loose

FOX



The Knife Scrapes the Floor when the Machine is Drawn Toward the Operator. When in Operation about 85% of the Weight is Resting on the Blade. When not in Operation the Weight is Perfectly Balanced on the Wheels, with the Blade Clear of the Floor.

The Frame is Carried on Two Rubber Tired Wheels, Working Independently of Each Other, and a Third Wheel to Carry Machine on Back Stroke.

A Rubber Pad Just Back of the Blade Eliminates Any Chattering When Working Out the Grain of Wood. A Polishing Knife is Furnished to Take the Place of a Sanding Device. This Knife Leaves a Finer Finish on the Floor, and Brings Out the Natural Grain of the Wood. It Permits of Faster and Better Work than Could be Done with a Sander;

Japanned Cast Iron Frame; Steel Fender; Forged Steel Handle Braces; Hardwood Handle and Grip, Rubber Tired Rollers; Tempered and Honed Tool Steel Blades.

Each

No. F—Width of Cut 8⅜ inches; Diameter of Wheels 7 inches; Size of Handle Braces 1¼x¼ inch; Length of Handle 40 inches; Length Over All 57 inches; with 4 Cutting Knives, 3 Roughing Knives, 1 Polishing Knife, an Oil Stone, a Filing Clamp, Burnishing Tool, Mill File and Wrench; Weight 94 lbs. **$33.00**

One in a Case. Plus.

No. EF8—Extra Blades for No. F. Fox Floor Scrapers. Eight Blades in a Set; Weight per Set 1½ lbs. **$6 50**

Loose

FLOOR SCRAPERS

LITTLE GIANT

The Knife Scrapes the Floor when the Machine is Drawn Toward the Operator. A Shaving about 2 inches Wide and 6 Feet Long is Removed with Each Stroke. The Knife Projects Beyond the Front of the Machine and will Scrape Right Up to the Base-Board.

Japanned Cast Iron Frame; Natural Finish Hardwood Handle; Rubber Tired Rollers; Tempered, Honed and Polished Tool Steel Blades, with Convex Cutting Edge.

Each

No. 2—Width of Cut 7⅝ inches; Diameter of Large Roller 8½ inches; of Small Roller 2⅝ inches; Length of Handle 37¾ inches; Length Over All 56 inches; Complete with 6 Knives, Wrench, Burnishing Tool and Oil Stone; Weight Each about 105 lbs **$60 00**

One in a Case

Per Set

No. EG6—Extra Blades for No. 2 Little Giant Floor Scraper; Six Blades in a Set; Weight per Set 1 lb. **$7 00**

Loose.

FOX

The Scraper is Balanced so that the Weight is Over the Blade, where it should be when Scraping, and cannot get out of Balance. The Wheels are set in so that the Knife will Cut Close up to Baseboards and into Corners. A Rubber Pad is Placed over the Blade which Prevents chattering or leaving waves, and protects the Blade and Flooring when going over Rough or Knotty Places. Frame carried on two Rubber Like Wheels working independently of each other. Adjustable Handle.

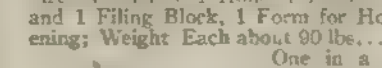
Very Strong and Durable Cast Iron Frame, Painted Red; Forged Steel Handle Braces. Will Work Well on all Hardwood Flooring and is well Adapted for Scraping Floors.

Each

No. F4—Width of cut 6 inches; Diameter of Wheels 4½ inches; Size of Handle Braces ⅞x¼ inches; Length of Handle 38 inches; Length Over All 57 inches; 6 Regular Cutting Knives, Size 5½x1¼x.1 Honed Polishing Steel, 1 Wrench, 1 File and 1 Filing Block, 1 Form for Holding Blades when Resharpening; Weight Each about 90 lbs. **$37 00**

One in a Case

BURNISHERS OR SCRAPER STEELS



DISSTON

For Finishing the Edge on all Scraper Blades, and for Putting a Keen Edge on Chisels, Plane Irons, etc.

Per Dozen

No. 1—Oval, Crucible Steel, Tempered and Polished Blade, 5-16 inches wide, 4¼ inches long, Hardwood Handle with Nickel Plated Ferrule; Length Over All, 9 inches; Weight per Dozen about 1¾ lbs. **$6 50**

Half Dozen in a Box.

DISSTON

For Finishing the Edge on all Scraper Blades, and for Putting a Keen Edge on Chisels, Plane Irons, etc.

Per Dozen

No. 3—Round, Crucible Steel, Tempered and Polished Blade, ¼ inch Thick, 4½ inches long; Hardwood Handle with Nickel Plated Ferrule; Length Over All 9 inches; Weight per Dozen about 2 lbs. **$6 50**

Half Dozen in a Box

DISSTON

For Finishing the Edge on all Scraper Blades, and for putting a Keen Edge on Chisels, Plane Irons, etc.

Per Dozen

No. 4—Square, Crucible Steel, Tempered and Polished Blade, ¼ inch Thick, with Round Point Tapered to 1 inch from Tip; Hardwood Handle, with Nickel Plated Ferrule; Length Over All 9 inches; Weight per Dozen about 2 lbs. **$8.00**

Half Dozen in a Box.

ELECTRIC SOLDERING IRONS

These Irons are equipped with a "Vea" heating element, guaranteed against burning out when used on proper voltage. The metal parts are blued, the handle mahogany finish, each iron is furnished with 6 ft. of cord, complete with plug, which will fit any electric light socket.

Dover

Nos.	225	275	400
Weight oz	22	39	54
Length, in.	15	15⅛	16¼
Diameter of tip, in.	¾	1¼	1⅞
Weight of tip, oz.	3	13	18
Volts	110	110	110
Watts	225	275	400
Each	$12.00	15.00	18.00

One Set in a Package Complete

[illegible] SOLDERING COPPERS

Pointed or Common Pattern

No. 1—						
Lbs., per pair.	1	1½	2	2½	3	4
Per lb.	$...	....	....	....	....	....
Lbs., per pair.	5	6	7	8	10	12
Per lb.	$...	....	....	....	..	. ..

Packed as Ordered

Flat or Bottoming

No. 3—					
Pounds, per pair	2	3	4	5	6
Per lb.	$....	....	....	....	....

Packed as Ordered

Roofing Pattern, Handled

No. 4—					
Pounds, per pair	6	7	8	10	12
Per lb	$....	....	.. .	...	....

Packed as Ordered

TINNERS' ROOFING AND PLUMBERS' SCRAPERS

Forged from highest grade steel, well tempered and finely finished

No. 996—Size ⅞x⅛x10 inches. . . . Each $0.30

Packed as Ordered

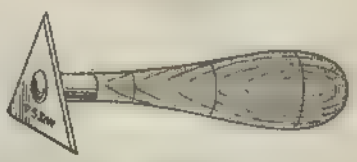
PLUMBERS' TOOLS

SHAVE HOOKS

Cast steel, polished handle. Blades can be changed by means of a set screw

No. 1—With oval blade. . . . . Per dozen $4.50

Packed as Ordered



No. 3—With triangular blade. . Per dozen $4.50

Packed as Ordered

LEAD DRESSERS

Made of lignum vitae highly polished

No. 296—Per dozen. $15.00

Packed as Ordered

TURN PINS

Made of lignum vitae, highly polished

Nos.	1	2	3
Length, inches	4	4¼	4½
Diameter, inches	2¼	2½	2¾
Per dozen	$5.00	5.00	5.00

Packed as Ordered

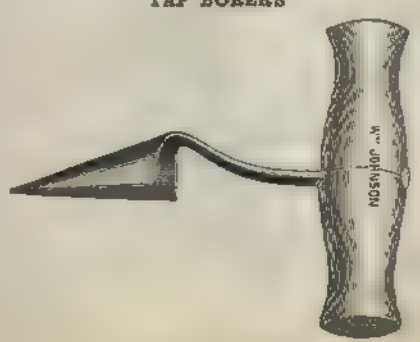
CHIPPING KNIVES

Riveted leather handle, crucible steel blade.

No. 337—Size, inches. .	4½	5	6
Per dozen.	$6.00	7.50	9.00

Packed as Ordered.

TAP BORERS



New York pattern.

Steel blade, extra heavy shank, wood handle.

No 343—Per dozen. $6.00

Packed as Ordered.

PLUMBERS' CANDLES

Extra hard, suitable for use in connection with wiping joints and tinning. 5 to the pound

No. 5—Per pound. $0.30

40 Pounds in a Box.

MELTING LADLES

Malleable Iron.
Double Lipped

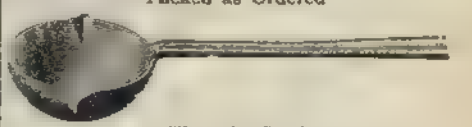
No. 7800—Size.	A	B	C	D
Diameter, inches. . .	3	4	5	6
Length, handle, in. .	12¼	12¼	14¼	15¼
Capacity, lead, lbs.	2	4	7	12
Per dozen.	$1.88	2.23	4.13	4.73

Packed as Ordered.

Wrought Steel
Light Single Lipped

Nos.	3	4	5	6
Diameter, inches. . .	3	4	5	6
Length of handle, in.	11	14	19	21
Capacity lead, lbs. .	1⅝	4⅛	7⅛	10⅞
Per dozen.	$3.50	4.75	6.50	8.00

Packed as Ordered



Wrought Steel
Extra Heavy Double Lipped

Nos.	7	8	9	10
Diameter, inches. .	7	8	9	10
Length handle, in. .	24	29	34	39
Capacity lead, lbs. .	20⅛	33	42¾	66
Per dozen.	$12.00	15.00	20.00	24.00

Packed as Ordered.

COPPER SMELTERS' LADLES

Inside diameter of bowl 8½ inches.

No. 1000—Price on application.

Packed as Ordered.

PLUMBERS' SOLDERING POTS

Malleable iron, 6 inches in diameter, wrought iron bail.

No. 100.....Each $2.25

Packed as Ordered.

CRUCIBLES

For melting steel, brass, alloys.

Nos.	Capacity, Liquid Measure, Pints	Height Outside, Inches	Diameter at Top Outside Inches	Diameter at Bilge, Outside Inches	Diameter at Bottom Outside, Inches	Per Dozen
0	.....	2	1 13/16	1 1/2	1 1/4	$1.80
00	.....	2 1/4	1 7/8	1 5/8	1 3/8	1.80
000	.....	2 1/8	2	2	1 1/2	1.80
0000	1/4	3	2 3/8	2 3/4	1 3/4	1.80
1	1/2	3 5/8	3 1/4	3 1/2	2 1/4	3.00
2	3/4	4 1/2	3 3/4	3 5/8	2 7/8	3.60
3	1	5 1/4	4 1/4	4 1/8	3	4.20
4	1 1/2	5 5/8	4 5/8	4 3/8	3 1/4	4.80
5	1 3/4	6	4 7/8	4 3/4	3 1/2	5.40
6	2 1/4	6 3/8	5 1/4	5 1/8	3 7/8	6.00
7	2 3/4	6 3/4	5 1/2	5 1/4	4	6.60
8	3	7 1/4	5 3/4	5 1/4	4 1/4	7.20
9	3 1/2	7 1/2	6	6 1/4	4 3/4	7.80
10	4	7 7/8	6 1/4	6 1/2	4 3/4	8.40
12	4 1/2	8	6 3/8	6 3/4	5 1/4	
14	5 1/2	8 1/4	6 7/8	7 3/8	5 3/8	
16	6 1/4	8 3/4	7	7 1/2	5 5/8	
18	8	9 3/4	7 1/8	8	5 3/4	
20	9	10 1/8	7 7/8	8 3/4	6	
25	10 1/2	10 5/8	8 1/4	8 5/8	6 1/8	
30	11 1/2	11 1/4	8 3/4	9 1/8	6 5/8	
35	14 1/2	11 5/8	9 1/8	9 3/4	7	
40	17	12 1/8	9 5/8	10 1/4	7 1/4	
45	19	13	9 7/8	10 1/4	7 5/8	
50	22 3/4	13 3/8	10 1/4	11 1/4	8	
60	26	14	10 5/8	11 5/8	8 1/4	
70	26 1/2	14 1/4	10 3/4	11 7/8	8 5/8	
80	31	15 1/8	11 1/4	12 3/8	8 5/8	
90	36	15 3/4	11 5/8	12 5/8	9 1/4	
100	37	16	11 7/8	13 1/8	9 3/8	
125	41	16 5/8	12 1/2	13 3/4	9 1/2	
150	53	18 1/4	13 1/2	14 3/4	10 1/2	
175	64	19 3/8	14 1/4	15 3/4	10 3/4	
200	75	20 1/4	15	16 5/8	11 5/8	
225	83	20 5/8	15 1/16	16 3/4	12 1/8	
250	85	20 3/4	15 3/8	17	11 1/2	
275	91	22 1/4	15 1/4	17	12 1/2	
300	98	22 1/4	16 1/4	17 1/2	12 1/2	
400	131	24	16 5/8	19 3/8	14	

6½ cents per number

Packed as Ordered.

CHARCOAL FIRE POTS

Sheet iron, japanned, cast top and collar So constructed that the ashes fall into a pan beneath the coal, and the fire is kept clear and the draft good

Perfo

No. 782—Tinners', weight 15 lbs....Each $3.25

One in a Box

GAS FURNACES

For natural or illuminating gas, with adjustable air mixer, double burner, cast iron base. Sheet steel cover lined with fire brick. With hose connection.

No. 4 N—For natural gas.....Each $4.30

No. 4 A—For illuminating gas.....Each 4.30

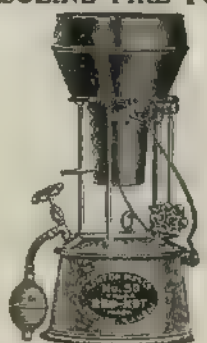
One in a Box

For natural gas, with adjustable air mixer, double burner, cast iron base and top. With hose connection.

No. 2 N— .....Each $4.50

One in a Box

GASOLINE FIRE POTS



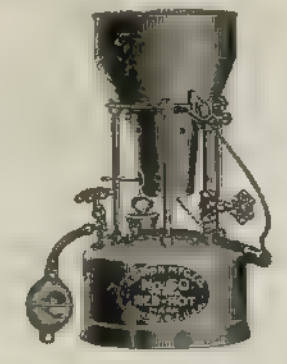
Heavy galvanized iron tank, sloping sides and broad base, with galvanized cast iron top plate and bottom ring. All small fittings are made of malleable iron and brass. Coil is made of extra heavy pipe.

Red Hot

No. 50—With rubber bulb, capacity 4 quarts .....Each $6.00

GASOLINE FIRE POTS

The tank is made of heavy gauge seamless drawn steel with the bottom and all fittings welded in. All small parts are made of malleable iron and brass. The burner is made of special steel and the coil is made of heavy steel pipe, free from scale



Red Hot

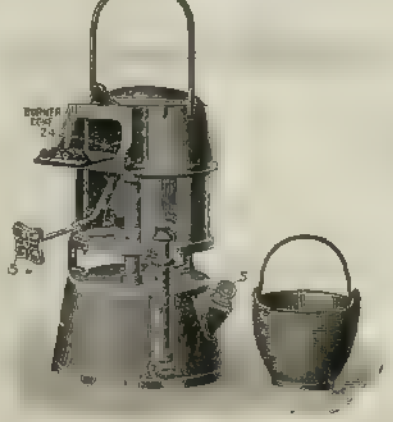
No. 60—With rubber bulb, capacity 4 quarts, weight 13 lbs.....Each $8.80

One in a Box

Red Hot

No. 61—With automatic pump, capacity 4 quarts, weight 13 lbs....Each $9.60

GASOLINE SOLDERING FURNACES



Made with heavy sheet steel base with sloping sides. The small fittings are made of malleable iron and brass, with wrought iron bail. Automatic brass pump furnishes the air pressure. Furnished with melting pot.

Reliable

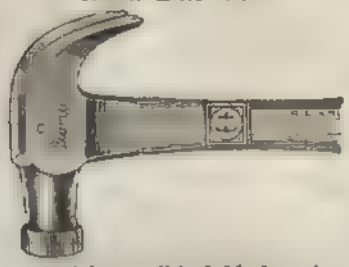
No. 196—Capacity 2 quarts .....Each $8.00

One in a Box

PLUMB'S HAMMERS

Anchor brand, forged from special analysis steel, striking surfaces specially hardened and tempered. Handled with best grade hickory handles.

ADZE EYE NAIL



Bell face, polished, black neck

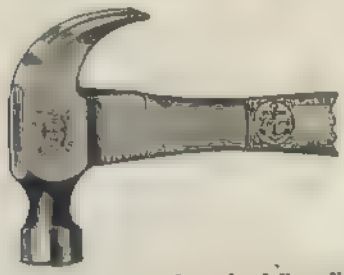
Nos.	80	81	82	83	84
Sizes	1	1½	2	3	4
Wt.,lesshdle,oz.	20	16	13	7	4
Per dozen	$9 00	8.50	8.00	7 50	7.25

Half Dozen in a Box

Plain pole, full polished

Nos.	71	72	73
Sizes	1	1½	2
Weight, less handle, oz	20	16	13
Per dozen	$9 00	8 50	8 00

Half Dozen in a Box

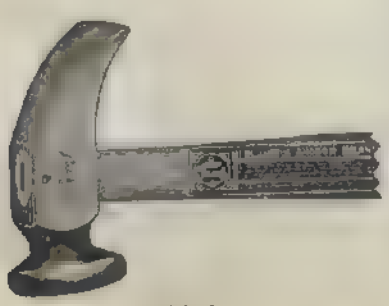


Octagon face, round neck, full polished and nickel plated.

Nos.	46	47
Weight less handle, oz.	17	14
Per dozen	$13 50	13 00

Half Dozen in a Box

ADZE



Polished

Nos.	453	454
Sizes	0	1
Weight, less handle, oz.	11	13
Per dozen	$5.25	5.50

Half Dozen in a Box

BLACKSMITHS' HAND

Octagon face, full polished

Nos.	280	281	282
Sizes	0	1	2
Weight, less handle, oz.	26	32	42
Per dozen	$13.00	14 00	15 00
Nos.	**283**	**284**	**285**
Sizes	3	4	5
Weight, less handle, oz.	48	56	72
Per dozen	$16.00	17.00	19.00

Third Dozen in a Box

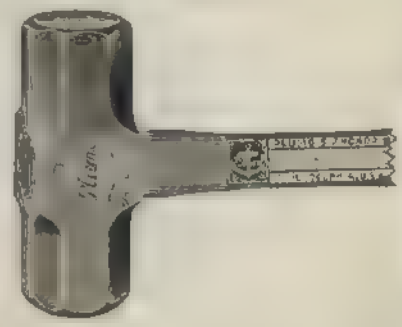
PLOW OR ENGINEERS'

Single face full polished

Nos.	Size	Weight less Handle	Per Dozen
260	0	1 lb. 2 oz.	$12 00
261	1	1 lb. 10 oz.	13.00
262	2	2 lbs.	14 00
263	3	2 lbs. 8 oz.	15.00
264	4	3 lbs.	16 00
265	5	3 lbs. 8 oz.	17.00

Third Dozen in a Box

ENGINEERS'



Double face, full polished

Nos.	Size	Weight less Handle	Per Dozen
270	0	1 lb. 8 oz.	$14 50
271	1	2 lbs.	15 50
272	2	2 lbs. 6 oz.	16 50
273	3	3 lbs.	18 00
274	4	3 lbs. 10 oz.	19.50

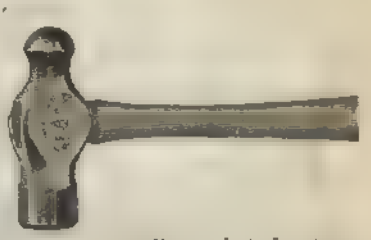
Third Dozen in a Box

MACHINISTS' BALL PEIN

Octagon pattern, full polished

Nos.	370	371	372	373
Sizes	4/0	3/0	2/0	0
Wt., less handle, oz.	5	8	12	16
Per dozen	$12 00	12 00	12 00	12 50
Nos.	**374**	**375**	**376**	**377**
Sizes	1	2	3	4
Wt., less handle, oz.	20	24	28	32
Per dozen	$13 50	14.50	15 50	16 50
Nos.	**378**	**379**	**380**	**381**
Sizes	5	6	7	8
Wt., less handle, oz	36	40	44	48
Per dozen	$17 50	19 00	20.50	22.00

Third Dozen in a Box

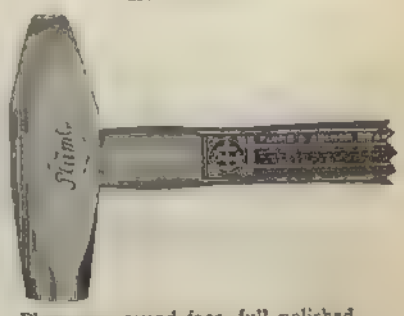


Made from extra quality tool steel, octagon pattern, nickel plated, white hickory handles

Nos.	0353	0354	0355	0356
Sizes	7/0	6/0	5/0	4/0
Wt less hdl., oz.	2	3	4	6
Per dozen	$11.00	12 00	13 00	14 00
Nos.	**0357**	**0358**	**0359**	**360**	**361**
Sizes	3/0	2/0	0	1	2
Wt less hdl., oz.	8	12	16	20	24
Per dozen	$15.00	16.00	17.00	18.00	19 00

Sizes 7/0, 6/0 and 5/0 Half Dozen in a Box
All other sizes Third Dozen in a Box

RIVETING



Plain eye, round face full polished

Nos.	250	251	252	253
Sizes	0	1	2	3
Wt., less handle, oz.	4	7	9	12
Per dozen	$5.50	5 75	6 00	6 25
Nos.	**254**	**255**	**256**
Sizes	4	5	6
Weight less handle, oz	15	18	22
Per dozen	$6 50	7.00	7.50

Half Dozen in a Box

PLUMB'S HAMMERS

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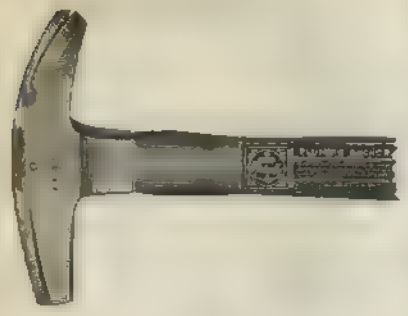


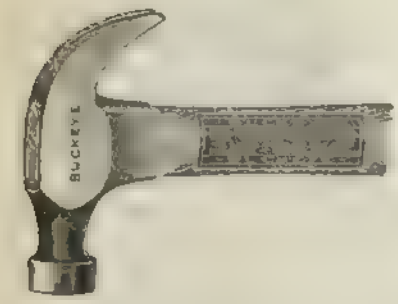
Anchor brand, forged from special analysis steel, striking surfaces specially hardened and tempered. Handled with best grade hickory handles, adze eye, octagon pole, full polished

No. 171—Weight each, less handle, 12 ounces.. . .. .Per dozen $9.00

Half Dozen in a Box

BUCKEYE HAMMERS

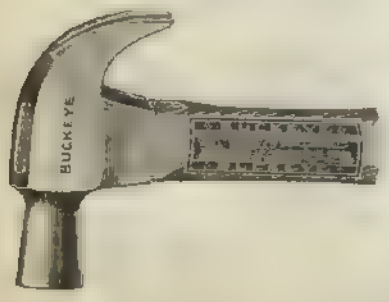
ADZE EYE NAIL



Bell face, special cast steel, polished, handled with a good grade of hickory handles.

No. 232—Size	3	1½
Wt. less handle, ounce.....	7	16
Per dozen	$5.50	6.50

Half Dozen in a Box



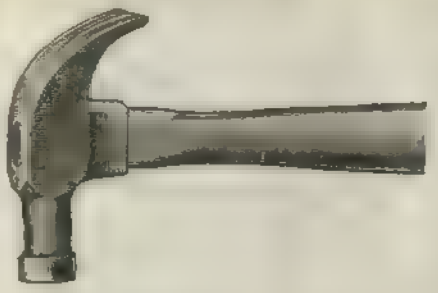
Plain face, round pole, otherwise same as No 232

No. 230—Size 1½. Weight less handle 16 oz.....Per dozen $6.50

Half Dozen in a Box

POPULAR HAMMERS

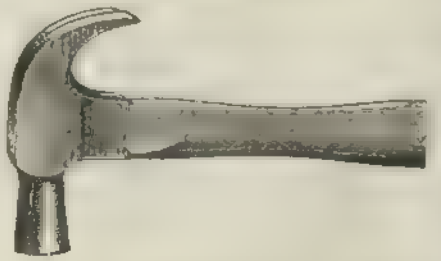
ADZE EYE NAIL



Bell face, polished, made from a special converted steel, faces hardened, fitted with a good, serviceable handle.

No. P 110½—Weight less handle 16 ounces . . . . . .Per dozen $4.00

Half Dozen in a Box



Plain face, polished, otherwise same as No P110½

No. P 10½—Weight less handle 16 oz. Per dozen $4.00

Half Dozen in a Box

CAST IRON NAIL HAMMERS

Adze eye, plain face, full polished, varnished handle.

No. 100—Weight less handle 1⅛ pound. Per dozen $2.00

Half Dozen in a Box

LADIES' CAST IRON NAIL HAMMERS

Plain face, nickel plated, varnished handle

No. 201—Weight 7 oz.....Per dozen $1.20

One Dozen in a Box

HELLER'S HAMMERS

[illegible]

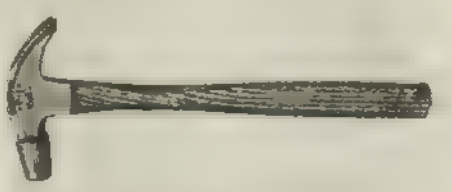
Made from special refined clay crucible tool steel, perfectly tempered, handled with first quality hickory handles.

DRIVING

Adze eye, square pole, polished

No. 64—			
Sizes	12	14	16
Wt. with handle, oz.... ..	12	14	16
Per dozen	$12.00	12.00	12.00

Half Dozen in a Box



Adze eye, round pole, polished

No. 65—			
Sizes	12	14	16
Wt. with handle, oz . .	12	14	16
Per dozen	$15.00	15.00	15.00

Half Dozen in a Box

ROUNDING

One face is flat, the other oval. Polished

No. 61—			
Sizes	2	2¼	2½
Wt. with handle, lbs.....	2	2¼	2½
Per dozen $28.80	28.80	28.80	

Quarter Dozen in a Box.

FITTING

Flat faces, wedge point. Polished

No. 62			
Sizes	2	2¼	2½
Wt. with handle, lbs .	2	2¼	2½
Per dozen $24.00	24.00	24.00	

Quarter Dozen in a Box

PLUMB'S HATCHETS

Anchor brand, forged from the highest grade tool steel obtainable, tempered and toughened by special formula, perfectly balanced and handled with closely selected second growth hickory handles.

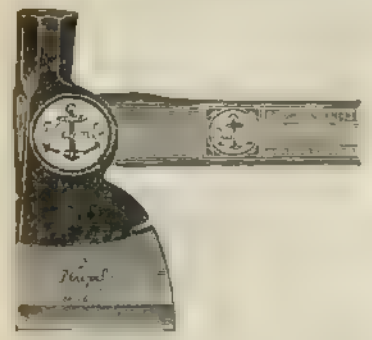
BROAD OR BENCH

Single bevel, gold bronzed body, polished face and bit.

Nos.	Size	Cut Inches	Wt. less Handle	Per Doz.
639	0	3½	1 lb. 4 oz.	$10.00
640	1	4	1 lb. 8 oz.	10.50
641	2	4½	1 lb. 12 oz.	11.50
642	3	5	2 lb. 2 oz.	13.00
643	4	5½	2 lb. 8 oz.	14.50
644	5	6	2 lb. 14 oz.	16.50
645	6	6½	3 lb. 4 oz.	18.00

Half Dozen in a Box

HALF



Octagon head, gold bronzed body, polished face and bit.

Nos.	Size	Cut Inches	Wt. less Handle	Per Doz.
600	1	3¼	15 oz.	$8.50
601	2	3⅝	1 lb. 5 oz.	9.00
602	3	4	1 lb. 11 oz.	9.50

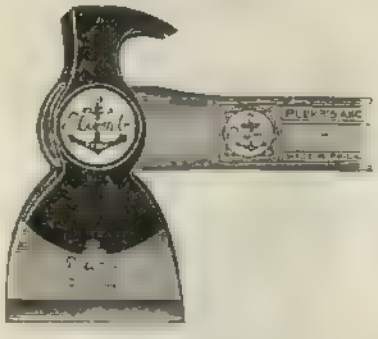
Half Dozen in a Box

Octagon head, full polished

Nos.	Size	Cut Inches	Wt. less Handle	Per Doz.
490	1	3¼	15 oz.	$11.00
491	2	3⅝	1 lb. 6 oz.	11.50
492	3	4	1 lb 11 oz.	12.00

Half Dozen in a Box

CLAW

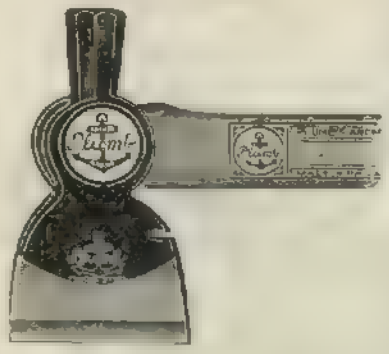


Gold bronzed body, polished face and bit

Nos.	Size	Cut Inches	Wt. less Handle	Per Doz.
610	1	3⅛	1 lb. 3 oz.	$9.00
611	2	4	1 lb. 9 oz.	9.50

Half Dozen in a Box

SHINGLING



Octagon head, gold bronzed body, polished face and bit.

Nos.	Size	Cut Inches	Wt. less Handle	Per Doz.
590	0	3⅛	13 oz.	$7.50
591	1	3½	1 lb 1 oz.	8.00

Half Dozen in a Box

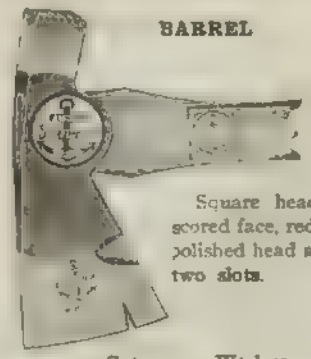
LATHING

Octagon head, gold bronzed body, with polished bit and scored face.

Nos.	Size	Cut Inches	Wt. less Handle	Per Doz.
620	0	2	10 oz.	$7.50
621	1	2¼	14 oz.	8.00

Half Dozen in a Box

BARREL



Square head with scored face, red body, polished head and bit, two slots.

Nos.	Size	Cut Inches	Wt. less Handle	Per Doz
635	0	2⅛	12 oz.	$10.00
636	1	2⅝	14 oz.	10.50

Half Dozen in a Box

GERMANTOWN HATCHETS

HALF OR CAR BUILDERS'

Forged from best grade tool steel, octagon neck, round pole, gold bronzed finish, oval, second growth white hickory handles.

Plain Head

Nos.	Size	Cut Inches	Wt. less Handle	Per Doz
317½	1	3¼	1 lb. 7 oz.	$13.50
318	2	3½	1 lb. 10 oz.	14.00
318½	3	3¾	1 lb. 14½ oz.	14.50

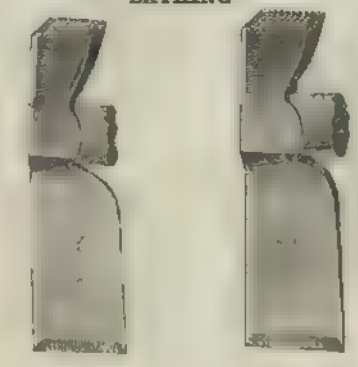
Scored Head

Nos.	Size	Cut Inches	Wt. less Handle	Per Doz.
0317½	1	3¼	1 lb. 7 oz.	$14.00
0318	2	3½	1 lb. 10 oz.	14.50
0318½	3	3¾	1 lb. 14½ oz.	15.00

Half Dozen in a Box

UNDERHILL BROS.' HATCHETS

LATHING



No 400 No. 410

Hand made from best tool steel, charcoal tempered, full polished.

Chicago Pattern

Per Dozen

No 400—Cut 2 in., weight less handle 9 oz., 9 row, scored face $35.00

St. Louis Pattern

No. 410—Cut 2 in., weight less handle 10 oz., 10 row, scored face..... $40.00

Half Dozen in a Box

BBB HATCHETS

Forged from one piece of solid tool steel, each hatchet carefully inspected and specially tempered, ground ready for use, with best grade select white hickory handles, accurately fitted.

HALF CLAW

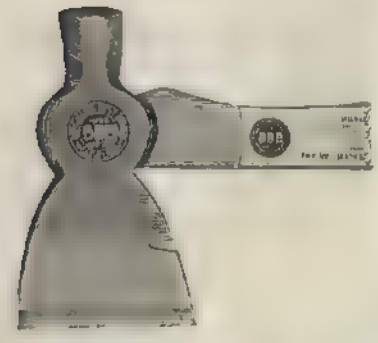
Claw head, gold bronzed, with polished head and bit, oval white hickory handle.

No. B106—

Size	Cut Inches	Wgt. less Handle	Per Dozen
1	3¼	1 lb. 6 oz.	$10 75
2	3⅛	1 lb 11 oz.	11.25

Half Dozen in a Box

SHINGLING



Octagon pole, gold bronzed, with polished head and bit, oval white hickory handles.

No. B107—

Size	Cut Inches	Wgt. less Handle	Per Dozen
0	3⅜	1 lb.	$8.75
1	3⅝	1 lb. 4 oz.	9.25
2	3⅞	1 lb 9 oz.	9.75

Half Dozen in a Box

BIG BUILDERS

Octagon neck, round pole, scored head gold bronzed, with polished head and bit, 18 in oval white hickory handle

No B109—

Size	Cut Inches	Wgt. less Handle	Per Dozen
2	3⅛	1 lb. 10 oz.	$15.50

Half Dozen in a Box

LATHING

Gold bronzed, with polished bit and pole, scored head, oval white hickory handle

No. B108—

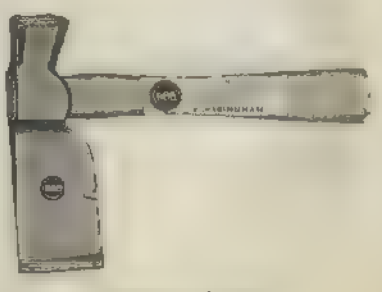
Size	Cut Inches	Wgt. less Handle	Per Dozen
1	2	16½ oz.	$9.25
2	2⅛	1 lb. 2 oz.	9.75

Half Dozen in a Box

Underhill Pattern

No. B117—Full polished, scored with 9 rows, oval white hickory handle, cut 2 in., weight less handle 14 oz.
Per dozen $16.00

Half Dozen in a Box



Underhill Pattern

No. B118—Full polished, scored with 8 rows, oval white hickory handle, cut 2 in., weight less handle 15½ oz .....Per dozen $14.00

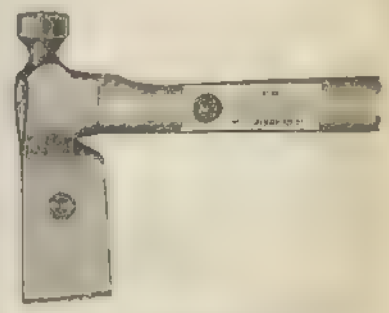
Half Dozen in a Box

LATHING

Haines Pattern

No. B119—Length of Blade 6½ Inches Bell faced, full polished, scored with 8 rows, white hickory handle, cut 2⅛ in., weight, less handle, 13 oz.....Per dozen $14.00

Half Dozen in a Box

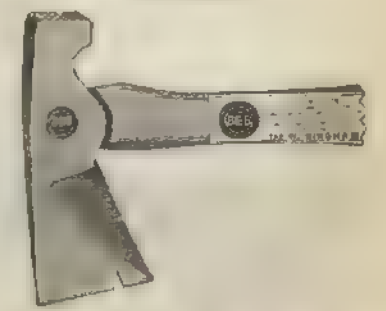


Haines Pattern

No. B120—Length of Blade 7¼ Inches Bell faced, full polished, adze eye, scored with 8 rows, white hickory handle, cut 2¼ in., weight, less handle 13 oz.. .....Per dozen $15.00

Half Dozen in a Box

BARREL



Special New York pattern, full polished oval white hickory handle, with 2 slots, scored head.

No B110—

Size	Cut Inches	Wgt. less Handle	Per Dozen
0	2	12 oz.	$11.50
1	2¼	16 oz.	12.00

Half Dozen in a Box

SLEDGES

All sledges, etc., are forged from high grade tool steel, hardened, black finish, with polished face.

BLACKSMITHS' CROSS PEIN

Size, lbs.	5	6	8	10	12	14	16	18
Length, in.	6	6¼	7	7⅛	7½	8	8½	9

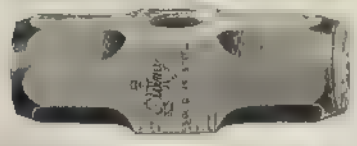
No. 322—All sizes.....Per pound $0.30
Packed as Ordered

BLACKSMITHS' STRAIGHT PEIN

Size, lbs.	5	6	8	10	12	14	16	18
Length, in.	6	6¼	7	7⅛	7½	8	8½	9

No. 326—All sizes.....Per pound $0.30
Packed as Ordered

BLACKSMITHS' DOUBLE FACE



Size, lbs.	5	6	8	10	12	14	16
Length, in.	6	6¼	6¾	7	7¼	7¾	8¼

No. 325—All sizes.....Per pound $0.30
Packed as Ordered

COAL MINERS'

Size, lbs.	8	6	8	10
Length, in.	9	9⅛	10½	11¼

No. 236—All sizes.....Per pound $0.30
Packed as Ordered

STRIKING HAMMERS

Nevada or Long Pattern

Size, lbs.	3	3½	4	5	6	7
Length, in.	4¾	5	5¼	5½	5¾	6
Size, lbs.	8	10	12	14	16	
Length, in.	6¼	6¾	7	7⅛	8	

No. 229—3 to 5 pounds.....Per pound $0.40
5 pounds and over..Per pound .30
Packed as Ordered

RIVET

Sharp pein and oval face

Size, lbs.	5	6	8	10	12	14	16	18
Length, in.	6¾	7	7⅛	8	8½	9	9¼	9½

No. 237—All sizes.....Per pound $0.30
Packed as Ordered

HAND DRILLING HAMMERS

California or Western Pattern

Size, lbs.	2	3	3½	4	5
Length, in.	4¾	5	5	5¼	5¾

No 203—Under 3 pounds....Per pound $0.55
3 to 5 pounds.....Per pound .50
5 pounds and over. Per pound .40
Packed as Ordered

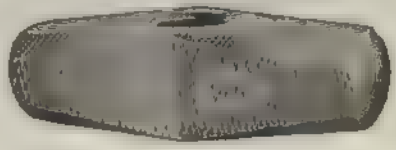
BLACKSMITHS' HAND HAMMERS

Single face

Size, lbs.	2	2½	3	3½	4
No. 199—Under 3 pounds....Per pound					$0.50
3 pounds and over. Per pound					.40

Packed as Ordered

NAPPING HAMMERS



Faces rounded

Size, lbs.	2	2½	3	3½	4	5
Length, in.	6	6	6	6⅛	6½	6¾

No. 212—Under 3 pounds....Per pound $0.50
3 to 5 pounds.....Per pound .40
5 pounds and over..Per pound .30
Packed as Ordered

SPALLING OR STONE HAMMERS

SINGLE FACE

Size, lbs.	3	4	5	6	8
Length, in.	6	6⅛	7	7¼	8
Size, lbs.	10	12	14	16	
Length, in.	8½	9	9¼	9¾	

No 222—3 to 5 pounds.....Per pound $0.50
5 pounds and over..Per pound .40
Packed as Ordered

DOUBLE FACE

Size lbs.	4	5	6	8	10
Length, in.	5¼	6¾	7	7¾	8¼
Size, lbs.	12	14	16	18	
Length, in	8¾	9	9½	9¾	

No. 223—Under 5 pounds....Per pound $0.50
5 pounds and over. Per pound .40
Packed as Ordered

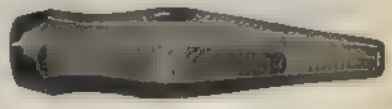
MASONS' HAMMERS

Single face, axe finish

Size, lbs.	3	3½	4	4½	5
Length, in.	6⅛	6¾	7	7¼	7½
Size, lbs.	5½	6	7	8	
Length, in.	7¾	8	8¼	8½	

No. 209—3 to 5 pounds.....Per pound $0.55
5 pounds and over. Per pound .50
Packed One in a Box

SHIP OR TOP MAULS



Octagon shape

Size, lbs.	4	4½	5	5½	6
Length, in.	7⅛	8½	8¾	9	9¼

No. 241—All sizes .....Per pound $0.42
Packed as Ordered

WOOD CHOPPERS' MAULS

Washington Pattern, Oval Eye

Size, lbs.	5	6	7	8

No 254—All sizes .....Per pound $0.36
Packed as Ordered

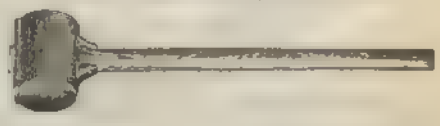
Washington Pattern, Axe Eye

Size, lbs.	5	6	7	8

No. 254A—All sizes.....Per pound $0.36
Packed as Ordered

POST MAULS

SOLID CAST IRON, OVAL EYE

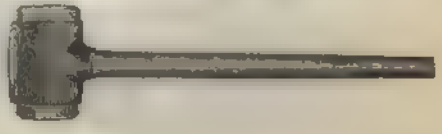


Japanned cast iron, solid heads with 36 in. hickory handles.

Size, lbs.	12	14	16	18
Diameter of face, in.	4	4	4¼	4½
No. 120.....Per dozen	$6.00	6.50	7.00	7.75

Packed as Ordered

INSERTED WOOD ENDS, ROUND EYE

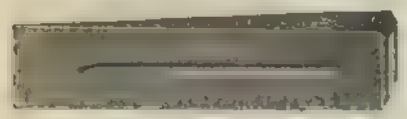


Japanned cast iron head, with inserted hickory faces, 36 in. hickory handle

Size, lbs.	8	10	12	14
Diameter of face, in.	2⅞	3⅛	3⅜	3⅝
No. 10W....Per dozen	$5.25	5.75	6.50	7.50

Packed as Ordered

WOOD CHOPPERS' WEDGES



Standard Pattern

Solid steel, square head

No. 401—Polished points, painted red, assorted, 3 to 5 pounds..Per pound $0 15
No. 400—Oil finish, assorted, 3 to 5 pounds .....Per pound .10
One Dozen Assorted in a Box

Truckee Pattern

Solid steel, oil finish, round head

No. 395—Assorted, 4 to 6 lbs. Per pound $0 25
One Dozen Assorted in a Box

Washington Pattern Falling

Solid steel, oil finished body, face and bit polished.

Size, lbs	4	5	6	8
No. 383 .....Per pound	$0 30			

Packed as Ordered

SAW WEDGES

Improved Pattern

Solid steel, oil finish

Size, lbs	1	1½	2	2½	3
No. 397—Sizes 1 and 1½	Per pound	$0 30			
Sizes 2, 2½ and 3..Per pound	.35				

Packed as Ordered

COAL WEDGES

Standard Pattern

Solid steel, oil finished

Size, lbs	1½	2	2½	3
No. 372—Size 1½.....Per pound	$0.30			
Sizes 2, 2½ and 3..Per pound	.25			

Packed as Ordered

STONE WEDGES

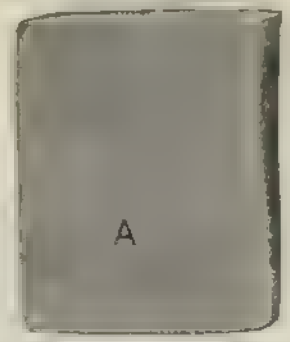
Short Pattern

Solid forged steel, oil finished

Size, lbs.....¾	1	1½	2	2½	3
No. 402—Sizes under 2 lbs..Per pound	$0.30				
Sizes 2 lbs. and over. Per pound	.25				

Packed as Ordered

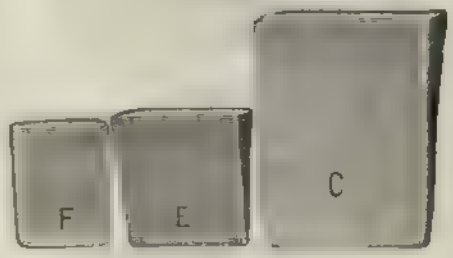
AXE WEDGES



(Cut shows actual size)

Made of refined malleable iron, natural finish
No. A—Axe.....Per gross $4 00
Quarter Gross in a Box

HAMMER AND HATCHET WEDGES



(Cuts show actual size)

Made of refined malleable iron, natural finish
No. F—Hammer .. ..Per gross $2 00
No. E—Hammer .. .. Per gross 2 50
No C—Hatchet . . . .Per gross 3 00
Quarter Gross in a Box

BLACKSMITHS' TOOLS

HOT CHISELS

Solid forged steel, oil finished body, polished bits, oil tempered

Width of bit, in.....1⅛	1¼	1⅜	1½
Length, in 6¾	7¼	8¼	8½
Weight each, lbs. 1⅛	2	2½	2¾
No. 47. . .Per dozen $6.30	7.20	9.00	10.80

Packed as Ordered

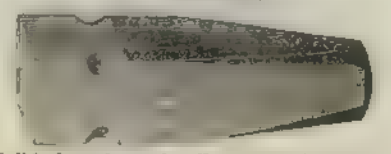
COLD CHISELS

Solid forged steel, oil finished body, polished bits, oil tempered

Width of bit, in.....1⅛	1¼	1⅜	1½
Length, in. 6¾	6½	7	7¼
Weight each, lbs.....1⅛	2	2½	3
No. 48.....Per dozen $6.30	7 20	9 00	10.80

Packed as Ordered

SET HAMMERS



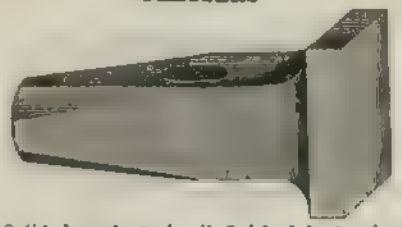
Solid forged steel, oil tempered, polished faces, oil finished body

Size of face, in. square	1¼	1½	1¾	2
Weight each, lbs . . 1⅝	2⅛	3¼	5¼	
Length in 5	5½	5½	6	
No. 51 . . .Per dozen	$9.00	11 70	14 40	18.00

Packed as Ordered

BLACKSMITHS' TOOLS

FLATTERS



Solid forged steel, oil finished body, faces polished and hardened.

Size face, in. square	2	2½	3	3½	4
Weight, lbs	2½	3¾	5¼	6¼	7⅛
Length, in.	4½	5	5½	5⅔	6
No. 49 Per dozen.	$10 80	14 40	18 00	25 20	36 00

Packed as Ordered

ANVIL HARDIES

Solid forged steel, oil finished body, polished finish bits, oil tempered

Size shank, in . .	⅜	¾	⅞	1	1⅛
Width of bit, in..1⅞	2	2	2⅛	2¼	
Weight, lbs.	¾	⅞	1½	1⅝	2½
Length, in. 4½	5	5¼	5¼	5¼	
No. 54 Per dozen	$4.95	5 40	5 85	6.30	8 10

Packed as Ordered

TOP SWAGES

Solid forged steel, oil finished. Average length 6 to 6½ inches

Size or Width of groove, in.	¼	⅜	½	⅝	¾	⅞
Length groove, in.	1⅝	1⅝	1⅝	2¼	2½	2¾
Weight each, lbs.	1⅝	1⅝	1⅞	2¼	2½	2⅞
No 52..Per dozen	$9.00	9.00	9.00	9.90	9.90	9.90

Size or Width of groove, in.	1	1¼	1½	1¾	2
Length of groove, in.	3	4	4½	5	5
Weight each, lbs.	2½	3	4	4	4
No. 52. Per dozen	$11.70	12 60	14.40	15.30	17.10

Packed as Ordered

BOTTOM SWAGES

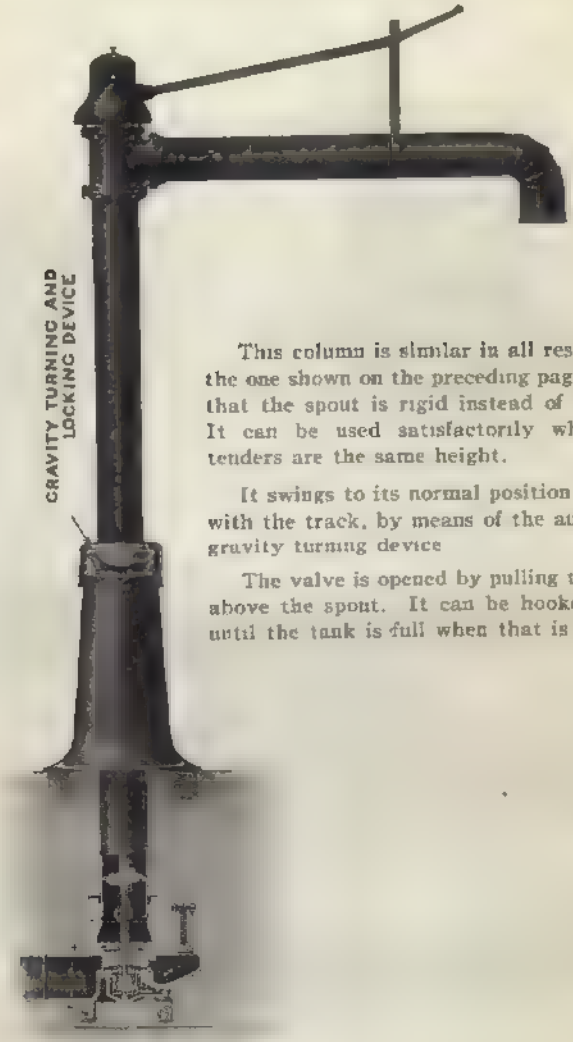
Square shank for 1 inch hole in anvil, solid forged steel, oil finished. Average length 4 to 5½ inches.

Size or Width of groove, in.	¼	⅜	½	⅝	¾	⅞
Length groove, in.	1⅝	1⅝	1⅝	2¼	2½	2¾
Weight each, lbs..	2	2	2	2¼	2½	2⅝
No. 53..Per dozen	$9.00	9.00	9.00	9.90	9.90	9.90

Size or Width grove, in.	1	1¼	1½	1¾	2
Length groove, in.	3	4	4½	5	5
Weight each, lbs..2⅝	2¾	3¼	3¾	4½	
No. 53. Per dozen	$11.70	12.60	14.40	15.30	17.10

Packed as Ordered

Poage Style "H" Automatic Water Column with Rigid Spout



This column is similar in all respects to the one shown on the preceding page except that the spout is rigid instead of flexible It can be used satisfactorily where all tenders are the same height.

It swings to its normal position parallel with the track, by means of the automatic gravity turning device

The valve is opened by pulling the lever above the spout. It can be hooked down until the tank is full when that is desired.

Fig. 41

Write for Prices

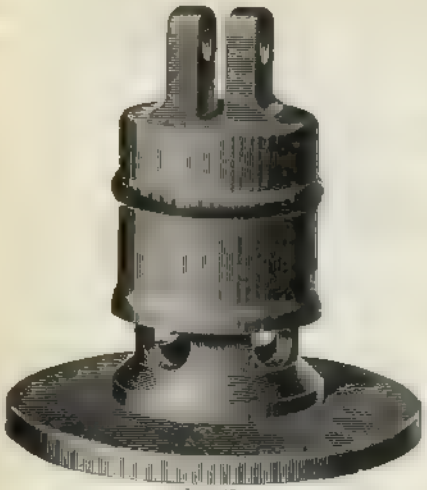


Fig. 42

Cotter Tank Valve

For Locomotive Tenders

Possesses the following advantages over the old-style four-wing valve

First. It has its advantages as to time of labor saved

Second. It will give perfect service in all kinds of weather

Third. Its seat is on an angle so as to protect it from any obstruction, having an angle of 45 degrees, and nothing can remain on its seat

Fourth. No hanging of tank valve; no leakage when off

Fifth. It is simple and durable in service, and will give greater satisfaction than any up-to-date improvement of the old-style four-wing valve

Sixth. This valve can be placed on the new goose necks with very little expense to the railroad companies

Seventh. No changes to be made in the fittings now in use on locomotives. This valve is to be placed on the inside of tank

Price . . . . . each $7.50

Cotter Tank Valve

For Water Tanks, Settling Basins, City Water Works, etc.

6-inch
8-inch
10-inch
12-inch

Write for Prices

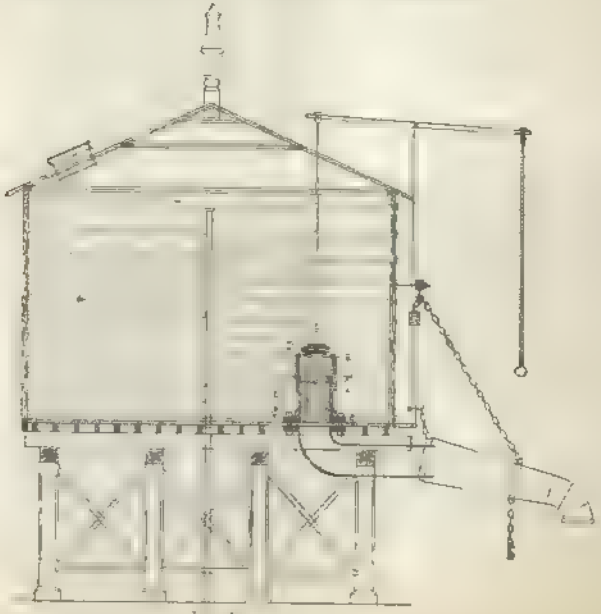


Fig. 43

POKER CHIPS

ENGRAVED

Finest Quality Composition; Round Edges; Smooth Finish; Practically Noiseless; Deeply and Distinctly Engraved; Stack Evenly.

Per 1000

No ECW—Cap and Wip; 1⅛ inches . . . **$24.00**

Weight per Box of 100, 1⅝ lbs.

ENGRAVED

Finest Quality Composition; Round Edges; Smooth Finish; Practically Noiseless; Deeply and Distinctly Engraved; Stack Evenly.

Per 1000

No. EHS—Horse Shoe; 1⅛ inches. **$24.00**

Weight per Box of 100, 1⅝ lbs.

ENGRAVED

Finest Quality Composition; Round Edges; Smooth Finish; Practically Noiseless; Deeply and Distinctly Engraved; Stack Evenly.

Per 1000

No. EOC—Owl and Crescent; 1⅛ inches **$24.00**

Weight per Box of 100, 1⅝ lbs.

PARANOID

Finest Quality Poker Chip Made; Round Edges, Very Quiet; Guaranteed to Stack Evenly; Practically Indestructible.

Per 1000

No. PEC—Carlo; Engraved, 1-9/16 inches; Weight per Box of 100, 1⅝ lbs. **$60.00**

Packed 100 in a Cardboard Box. Assorted 50 White, 25 Red, 25 Blue.

PARANOID

Finest Quality Poker Chip Made; Round Edges, Very Quiet; Guaranteed to Stack Evenly; Practically Indestructible.

Per 1000

No. PDS—Double Star; Engraved; 1-9/16 inches; Weight per Box of 100, 1⅝ lbs. **$60 00**

Packed 100 in a Cardboard Box. Assorted 50 White, 25 Red, 25 Blue.

PARANOID

Finest Quality Poker Chip Made; Round Edges, Very Quiet; Guaranteed to Stack Evenly; Practically Indestructible.

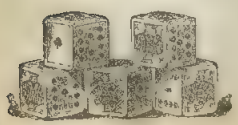
Per 1000

No. PFL—Fleur de Lis; Inlaid; 1-9/16 inches; Weight per Box of 100, 1⅝ lbs. **$80.00**

Packed 100 in a Cardboard Box. Assorted 50 White, 25 Red, 25 Blue.

DICE

POKER



Per Dozen Sets

No. CPD— Celluloid; Cream Color; Five in a Set, ⅝ inch; Wt. Dozen Sets 1 lb **$15 00**

No. VPD — Vegetable Ivory; Cream Color, Five in a Set; ⅝ inch; Wt. Dozen Sets 15 ozs. **$8 00**

One Set in a Box; One Dozen Sets in a Carton.

Transparent Celluloid

Square Corners; 9/16 inch

Five in a Set.

Per Dozen Sets

No. TCM⅝—Magenta Color, White Spots **$15 00**

No. TCG⅝—Green Color, White Spots **15 00**

Weight per Dozen Sets ¾ lbs.

One Set in a Box; One Dozen Sets in a Carton

Transparent Celluloid

Round Corners; 9/16 inch

Five in a Set

Per Dozen Sets

No. TCM⅝—Magenta Color, White Spots. **$18.00**

No. TCG⅝—Green Color, White Spots. **18.00**

Weight per Dozen Sets 1⅛ lbs.

One Set in a Box; One Dozen Sets in a Carton

Opaque Celluloid

Round Corners;

Five in a Set

Per Dozen Sets.

No. CDR⅝—⅝ inch, Cream Color, Black Spots **$12.00**

Weight per Dozen Sets ⅝ lb.

One Set in a Box; One Dozen Sets in a Carton

Opaque Celluloid

Square Corners;

Five in a Set

Per Dozen Sets

No. CDS⅝—⅝ inch, Cream Color, Black Spots . **$12.00**

No. CDS¾—¾ inch, Cream Color, Black Spots . . . **20 00**

Weight per Dozen Sets 1⅛ lbs.

One Set in a Box; One Dozen Sets in a Carton

BLANK DICE

Opaque Celluloid

Round Corners, Cream Color

(Five in a Set.)

One Set in a Box; One Dozen Sets in a Carton

Per Dozen Sets

No. CB1⅛—1⅛ in . Weight per Dozen sets ⅝ lb.. . . . . **$24 00**

No. CB9/16—9/16 inch; Weight per Dozen Sets, ¾ lb. **24 00**

No. CB⅝—⅝ inch; Weight per Dozen Sets 1 lb. **24.00**

One Set in a Box; One Dozen Sets in a Carton

DICE CUPS

*DIAMOND BRAND

Best Quality Heavy Russet Sole Leather; Double Sewed with Waxed Linen Thread.

Nos.	DC1	DC2	DC3
Sizes, Inches	3¼x2	3¼x2½	3½x2
Weight per Doz., Lbs.	1½	2	2¼
Per Dozen	$6.50	8.00	12.00

Loose.

PLAYING CARDS

UNITED STATES PLAYING CARD CO.

CONGRESS

Sitting Bull Back

An Artistic Series of Pictorial and Club Backs in Rich Colors, Designed for Up-to-Date Card Parties Social and Home Play; Assorted Backs.

Per Dozen
No. 606..... $11.00
Half Dozen Packs in a Box; Weight per Dozen 3½ lbs.

WHIST

Ivory Finish; Highly Enameled; Aluminum Finish Surface; Assorted Patterns and Colors.

Per Dozen
No. 133..... $7 00
One Dozen Packs in a Box; Weight per Dozen 2¾ lbs

BICYCLE

Tri-Tire Back

Ivory Finish, Highly Enameled; Bicycle and Other Popular Designs in Greatest Variety. Tested and Used in Card Playing Countries All Over the World; Assorted Backs.

Per Dozen
No. 808— $5.50
No. 119 –Helmet. 2 30
One Dozen Packs in a Box; Weight per Dozen 2¾ lbs.

PINOCHLE—ACE

Enameled; 48 Cards (9 Spots Low), 7 and 8 Spots Excluded. Meld and Scroll and Other Backs in Red and Blue, Assorted Backs.

Per Dozen
No. 48..... $6.00
One Dozen Packs in a Box; Weight per Dozen 2½ lbs.

TOURISTS

Daisy Back

Enameled, Hard Process Finished; Set Pattern Margin Backs; Assorted Patterns and Colors.

Per Dozen
No. 155 ..... $4 50
One Dozen Packs in a Box; Weight per Dozen 2¾ lbs.

STEAMBOAT

Plaid Back

The Best Cheap Card Made; Round Corners; Assorted Two Color Plaid and Wave Backs.

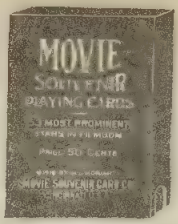
Per Dozen
No. 900..... $2.70
One Dozen Packs in a Box; Weight per Dozen 2⅝ lbs.

LITTLE DUKE—ACE

Small Size Playing Cards; Enameled, Artistic Faces, Children's Playing Cards and for Patience Players, Assorted Backs in Red and Blue.

Per Dozen
No. 24 ..... $2 70
One Dozen Packs in a Box; Weight per Dozen 11 ozs.

PLAYING CARDS



A veritable Picture Gallery of the Celebrities of the Movie Stage; The Faces show 53 Beautiful Half-tone Portraits of the World's Greatest Motion Picture Stars; The Back Design is a Reproduction of the Famous Painting "The Chariot Race." The Pack is made of Fine Quality of Stock with Perfect Slip and Finish, and is Complete for Playing all Card Games.

Packed in Beautiful Blue Box with Gold Lettering on One Side and Sample of Card on the Other Side.

GILT EDGES Per Dozen
No. MSC—Weight Per Dozen 4¾ lbs..... $9.00
One-half Dozen in a Box

POKER CHIPS

UNBREAKABLE

Extra Hard Paper Composition; Square Edges, Perfectly Noiseless, Stack Evenly

Per 1000
No. U -1⅛ inches $30 00
Weight per Box of 100, ⅞ lb.
Packed 100 in a Cardboard Box. Assorted, 50 White, 25 Red, 25 Blue.

PLAIN

Superior Quality Composition; Round Edges Practically Noiseless. Stack Evenly.

Per 1000
No. P—1⅛ inches..... $15.00
Weight per Box of 100, 1⅝ lbs.
Packed 100 in a Cardboard Box. Assorted, 50 White, 25 Red, 25 Blue.

EMBOSSED

Fine Quality Composition; Round Edges; Practically Noiseless, Raised Panel Border, Stack Evenly.

Per 1000
No. EM—Mascot; 1⅛ inches..... $19.20
Weight per Box of 100, 1⅝ lbs.

EMBOSSED

Fine Quality Composition; Round Edges; Practically Noiseless, Raised Panel Border, Stack Evenly.

Per 1000
No. ED—Dragon; 1⅛ inches..... $19.20
Weight per Box of 100, 1⅝ lbs.

EMBOSSED

Fine Quality Composition; Round Edges; Practically Noiseless, Raised Panel Border, Stack Evenly,

Per 1000
No. [illegible] Monkeying; 1⅛ [illegible] $19 20
[illegible] Box of 100, 1⅝ lbs.

POLICE GOODS

HANDCUFFS

BEAN'S GIANT

Extra Large, Strong and Well Made; for Unruly or Fractious Prisoners; this Style of Cuff is the Best and Most Secure Restraint; Locks the Hands Securely with no Possibility of Picking Lock; Hands Cannot be Used in any Manner Whatever. Per Pair

No. 00—Nickel Plated Steel; with Key; Weight per Pair 12 ozs. $11 00

One Pair in a Box

Per Dozen

Extra Keys No. BK. **$4 50**

Loose

IMPROVED BEAN'S PATTERN

These Handcuffs are Made to Meet the Demand for a Handcuff Combining Superior Quality with Very Light Weight, Obviating the Defects of the Old Style Bean's Cuff; Locks Cannot be Removed or Opened When Cuffs are Worn; When Locked the Locks Cannot be Taken Out, Nor Can the Cuff Be Locked Any Better Without the Key; Can be Unlocked from Either Side, Connecting Swivel Joint at Either End; Weight 15 ozs. with Key. Per Pair

No. 1—Polished Steel **$5 50**

No. 1N—Nickel Plated Steel **6.50**

One Pair in Box

Per Dozen

Extra Keys No. BK. **$4 50**

Loose

TOWER'S ADJUSTABLE DOUBLE LOCK WITH PATENT LOCK

The Patent Stop Prevents Locking by Effort of the Prisoner or by Accident, before the Handcuffs are Closed on the Limb. When in use, the Forward End of the Stop Projects Above the Surface of the Bow, and while Allowing the Bow to Enter the Lock Socket Until the Bolt has Passed into the Notches, Will Not Permit the Shackle to Lock on the Limb of a Prisoner, a Slight Pressure on the Stop with the Finger Over it When Ready to Lock—Depresses it Even with the Surface of the Bow, Which Then Passes Through and is Self Locked; Weight 18 ozs. with Key. Per Pair

No. 2—Polished Steel **$7 00**

No. 2N—Nickel Plated Steel **8 00**

One Pair in a Box

Per Dozen

Extra Keys No. TK **$4 50**

TOWER'S DETECTIVE

Extra Light Weight; Adjustable, Self-Locking; Secure and Strong; These Handcuffs are Designed to Meet the Demand for a Very Light Weight Shackle, for Those Officers, Detectives and Others who are Required to Have Their Implements Always with Them, and Find a Few Ounces Saved in Their Weight a Matter of Convenience and Comfort; Self-acting Bolt which Cannot be Forced and a Lock so Guarded as to Give Ample Security; Weight 12 ozs. with Key. Per Pair

No. 3—Polished Steel **$7.00**

No. 3N—Nickel Plated Steel **8 00**

One Pair in a Box

Per Dozen

Extra Keys No. TK **$4 50**

Loose

POLICE GOODS

NIPPERS

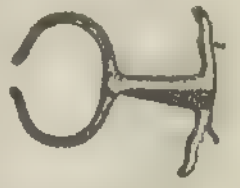
TOWER'S

To Clasp the Wrists in Making Arrests; Convenient to Carry; Always Ready for Use and an Admirable Substitute for the Common and Often Clumsy and Unreliable Device of Twine, Catgut, etc.

Each

No. T—Best Welded Steel Chain; Forged Steel Hand Grips; Nickel Plated and Polished; Weight 4 ozs **$3.60**

One Dozen in a Box



PHILLIPS

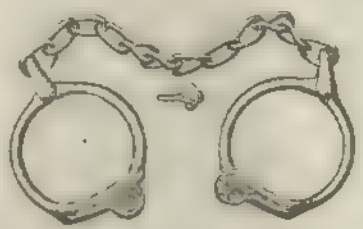
Improved Pattern; Readily Applied; Works Easily with One Hand and Gives Officer Complete Control of Prisoner; Strong, Reliable and Light to Carry.

Each

No. P—Forged Steel; Tempered Steel Spring; all Nickel Plated and Polished; Weight 4 ozs. **$1.80**

Half Dozen in a Box

LEG IRONS



IMPROVED BEAN'S PATTERN

Same Style Locks as on Bean's Handcuffs and Cannot be Unlocked by Accident or Without the Key; Forged Steel Shackles and Welded Steel Chain; Weight 1½ lbs. with Key.

Per Pair

No. 100—Polished Steel **$9.00**

One Dozen in a Box

TOWER'S PATENT IMPROVED ADJUSTABLE; WITH DOUBLE LOCK

Same Style Lock as on Tower's Handcuffs and Cannot be Picked or Forced; Absolute Security. Forged Steel Shackles and Welded Steel Chain; Weight 3 lbs. with Key.

Per Pair

No. 50—Polished Steel **$10.00**

One Dozen in a Box

TWISTER HOLDER

Designed to Hang from Trouser Button; Out of Sight, Ready for Immediate Use. Nickel Plated.

Per Dozen

No. TH—Twister Holder; Weight per Doze. 14 ozs. **$3 50**

One Dozen in a Box

VEHICLE LANTERNS

*DIAMOND

Red Rear Signals

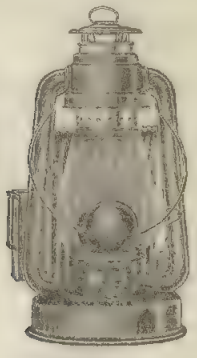
Beautiful Design; Durably Made; Finely Finished; Black Japanned; Few Parts and Easily Cleaned; Fount holds Sufficient Oil to Burn 25 Hours; 5¾ inch Heavy Beveled Plate Lens; Silvered Reflector will not Tarnish; Diamond Driving Lamp Burner; ⅝ inch "A" Wick.

Complete with Dust Attachment.

Per Dozen

No. JD—Height with Bail down 12 inches; Diameter of Base 5 inches; Weight Dozen 46 lbs. $76 00

Half Dozen in a Case



SIGNALITE COLD BLAST

Designed especially for Business Vehicles; Shows a clear White Light in Front and a Red Warning in the Rear; Fulfills the Legal requirements of all States pertaining to the carrying of Lights on Horse-drawn Vehicles at night; Tubular; 12 inches High; made of 1XAA Tin Plate, Black Enameled; Fitted with No. 1 Cold Blast Burner for ⅝ inch "A" Wick; Cold Blast Globe; Fount holds Oil to burn 14 to 16 hours; Produces 10 Candle Power Light which is magnified to an extreme degree by the Powerful Bull's Eye Lens and Globe; Highly Polished Corrugated Reflector with a 2 in. Ruby Lens framed in its Center.

Each Lamp Furnished Complete with Strong Metal Brackets; Weight per Dozen 60 lbs.

SIGNALITE

Per Dozen

No. SL—Left Side..... $27.00

No. SR—Right Side..... 27.00

One in a Box

CARRIAGE LAMPS

SOLAR

For Acetylene Gas; Simple, Safe and Practical; Cannot Jar or Blow Out; All Brass with Removable Aluminum Reflector; Double Convex Lens 2⅝ inches; Jeweled Side Lights, Green and Red, 1½ inches; Carbide and Water Capacity sufficient for 5 hours' use; All parts Heavily Nickel Plated and Polished.

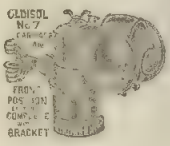
Complete with Dash Attachment.

Per Pair

No. S10SG—Height 7 inches; Weight per Pair 4 lbs..... $12.00

One in a Box

OLD SOL



A Self Contained Acetylene Lamp with rear Red Signal, having a large Capacity and throwing a splendid Light; may be used on either side of a Carriage; The Front Glass is of the same size and Interchanges with the rear Red Glass to allow use on Right or Left Side of Carriage

Fulfills every requirement of all Laws governing Carriage Lighting and has Special patented features; Well made from Heavy Gauge Sheet Brass, Nickel Plated and Polished; will Burn 6 to 7 Hours on one charge of Carbide and Furnish a Light of about 100 Candle Power.

Each

No. 7—**With Bracket**; Height Over All 8¼ in.; Diameter of Door 4 in.; Diameter of Reflector 3 in.; Carbide Capacity 5 oz.; Weight 1½ lbs..... $5.50

One in a Box

EUREKA

The Dietz "Eureka" makes an Ideal Driving Lamp for Light Driving Vehicles; **complies with the laws of various States and Cities; burns Kerosene;** well made from Sheet Brass; Black Enamel Finish, Nickel Plated Door Rim; 3 inch Convex Lens; 2 inch Red Rear Signal; Height 7 in.; Complete with Dash Attachment; Weight 1¼ lbs.

Per Dozen

No. 1R Right Hand..... $36 00

No. 1L Left Hand..... 36.00

One in a Box

POLICE LANTERNS

SLIDE

Heavy Tin, Japanned; with Knob to Operate Slide at Bottom; Burns Lard Oil; Fount Holds ¾ pint; Convex Lens, Height 7½ inches; diameter of Base 3½ inches.

Per Dozen

No. 80—2½ inch Lens; Without Wick; Weight per Dozen 11 lbs. $18 50

No. 85—3 inch Lens; Weight per Dozen 12 lbs..... 21 50

Lens

No. 1B Wick Adapted to No. 80 and 85 Lantern, See Page 3092.

RAILROAD LANTERNS

*NORLEIGH DIAMOND

Burn Signal Oil. These Lanterns are made for extreme severe usage. They are the best railroad lanterns made.

Cut shows top of Dome of the Norleigh Diamond Railroad lanterns.

*NORLEIGH DIAMOND

Double Up and Down Wires

Heavy IX AA Quality Re-dipped Charcoal Tin; Ventilated Hinged Top; Double Guard with Double Up and Down Wires; Bayonet Catch; Brass Burner with ⅝ inch Wick Inserted; Wick Raiser Inside of Globe; No. 39 Clear Glass Railroad Globe; Oil Capacity Sufficient for 24 Hours' Use; Height with Bail Down 10½ inches; Diameter of Base 6¾ inches; 8 inch Bail Attached to Wire Guard.

Per Dozen

No. 39—With Flanged Tin Base; Weight per Dozen 45 lbs.....**$27.50**

One Dozen in a Case

*NORLEIGH DIAMOND

Double Up and Down Wires

Heavy IX AA Quality Re-dipped Charcoal Tin; Ventilated Hinged Top; Double Guard with Double Up and Down Wires; Bayonet Catch; Brass Burner with ⅝ inch Wick Inserted; Wick Raiser Inside of Globe; No. 39 Clear Glass Railroad Globe; Oil Capacity Sufficient for 24 Hours' Use; Height with Bail Down 10½ inches; Diameter of Base 6¾ inches; 8 inch Bail Attached to Wire Guard

Per Dozen

No. 99—With Open Wire Base; Weight per Dozen 45 lbs.....**$20.60**

One Dozen in a Case

CAR INSPECTORS LANTERNS

*NORLEIGH DIAMOND

*NORLEIGH DIAMOND

With Coal Oil Burner, but will Burn Signal Oil.

Heavy IX AA Quality Re-dipped Charcoal Tin; No. 1 Long Cone Brass Burner with ⅝ inch Wick Inserted; Bright **Tin Hood,** 9 inches Diameter, 6 inches Deep with 5 inch **Silvered Glass Reflector;** No. 0 Clear Glass Globe.

Per Dozen

No. C—Height 15 inches; Diameter of Base 7 inches; Heavy Wire Bail 5 inches High; Heavy Tin Bossed Handle; Oil Capacity Sufficient for 20 Hours' Use; Weight per Dozen 64 lbs.....**$28.00**

Half Dozen in a Case

No. R—**Extra Silvered Glass Reflectors,** 5 inches; for No. C Lanterns; Weight per Dozen 3 lbs. **$5 50**

Half Dozen in a Box

ELECTRIC LANTERNS

SUPERIOR

A general utility Lantern. Just the thing for emergencies, as it can be quickly Lit by pushing Contact Switch at Bottom of Lantern. Gives a Clear White Light. Furnished with 3½ volt Bulb, but without Battery, see No. 1030 shown below.

Per Dozen

No. 60E—Heavy Quality Re-dipped Charcoal Tin; Double Guard with Extra Heavy up and down Braces; Clear Glass, Railroad Globe; Height 9¼ inches; Diameter Base 5 inches; Weight per Dozen 20 lbs.....**$29.00**

One in a Box

BATTERIES FOR No. 60E LANTERNS

Will Burn for 12 hours Continuous or 24 hours Intermittent.

Per 100

No. 1030—Three Cell; Weight per 100, 77½ lbs.....**$54.00**

Loose

BULBS FOR No. 60E LANTERNS

Per 100

No. 1136—3½ Volt.....**$24.00**

Loose

PORK RIND MINNOWS

White Composition Body; Nickel Plated Spinner; Hand Forged O'Shaughnessy Imported Hood; Pork Rind Attached by Impaling on Hook and Fastening the Forward End to Little Button, Practically Weedless as Hook Rides Upright, Passing Over Weeds and Other Obstructions; May be used without Pork Rind but is not so Efficient.

Per Dozen

No. 0W2/0—With No. 2/0 Hook; Length 3½ inches; Weight per Dozen 6 ozs. $18 00

No. 0W3/0—With No. 3/0 Hook; Length 4½ inches; Weight per Dozen 8 ozs. 18 00

Packed One in a Handsomely Lithographed Metal Box; One Dozen in a Carton.

WIGGLER
LITTLE EGYPT

Nickel Plated Spoon and Clasp; Imported O'Shaughnessy Hand Forged Hook; Pork is Attached by Impaling on Hook and the Forward End Under Clamp; Can be Cast as Easily as Wooden Minnow or Plug and is much Lighter; Hook will Ride Upright, Passing Over Weeds and Other Obstructions, Making it Practically Weedless.

Per Dozen

No. EW—With No. 3/0 Hook; Length 4 inches; Weight per Dozen 6 ozs. $14 00

One in a Box; One Dozen in a Carton

SKIDDER

Nickel Plated Spoon and Clasp; Imported O'Shaughnessy Hand Forged Hook; Pork is Attached by Impaling on Hook and the Forward End Under Clamp; Can be Cast as Easily as Wooden Minnow or Plug and is Much Lighter; Hook will Ride Upright, Passing Over Weeds and Other Obstructions, Making it Practically Weedless.

Per Dozen

No. SW—With No. 3/0 Hook; Length 4 inches; Weight per Dozen 6 ozs. $14 00

One in a Box; One Dozen in a Carton

PORK BAIT

Pork Rind Cut Especially for Nos. 0W2/0, 0W3/0, EW, and SW Minnows, but May be Used with Equal Success with Any Make of Spoon; One Dozen Pork Strips in Glass Air Tight Jar.

Per Dozen

No. FP—Jar 2½x3¼ inches; Wt. per Doz. 3¾ lbs. ..$4.50

One Dozen in a Box; Packed in Saw Dust.

LUTZ

Gives Live Minnow Kick, Life, Animation to any Bait Casting, Spoon Fly or Bucktail. For Casting or Trolling the Flash, Spin and Glitter of any Lure is Attractive, but add the Tantalizing, Serpentine Wiggle of Lutz Pork Bait and you have the peer of all Lures for Bait Casting. Use it on any make of Spoon.

Per Dozen Jars

No. LPB—One Dozen Strips in a Glass Jar; Thoroughly Cured to Keep Indefinitely, Will Be Soft and Pliable; Convenient for the Pocket and a Long Day's Casting; Weight per Dozen 8 lbs. $6 00

One Dozen in a Box;

KING SALMON EGGS

Specially Prepared; Contains no Poisonous Substance; The Natural Color and Flavor is Retained in the Preparation of these Eggs. A Natural Fish Food for Trout, although will be found Successful for all other Game Fishing. Always keep Cover of Bottle or Can on Tight, for they will spoil in about Ten Days after being opened.

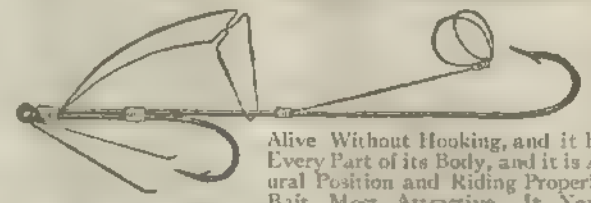
Per Dozen

+No. SEB—In 4 oz. Glass Bottles; Weight per Dozen Bottles 3¼ lbs. $4.50

+No. SEC—In 4 oz. Air Tight Cans; Weight per Dozen Cans 3¼ lbs. 4.50

One Dozen in a Box.

LIVE FROG HARNESSES



For Casting or Trolling. Holds the Frog Perfectly and Keeps it Alive Without Hooking, and it has Free Use on Every Part of its Body, and it is Always in Natural Position and Riding Properly, Making the Bait Most Attractive. It Never Bloats or Opens Mouth, and it May Leap, Float or Swim with Perfect Ease.

Per Dozen

No. UB—Extra Quality File Point Sprout Hook No. 4/0 Front and Carlisle No. 6/0 Rear; Best Bright Steel Music Wire Weed Guard and Annealed Wire Loop to Fasten Frog $8 50

Twelfth Dozen on a Card; One Dozen in a Box; Weight per Dozen 6 ozs.

RUBBER FROG BAITS

WESTWOOD

PLAIN

Pure Soft Moulded Rubber; Plain Natural Colors; Very Pliable, Durable and Life Like; Length of Body 3 inches.

Per Dozen

No. RF—Two Blued Spear Point Single Hooks No. 5/0; Weight Each ½ oz $10 00

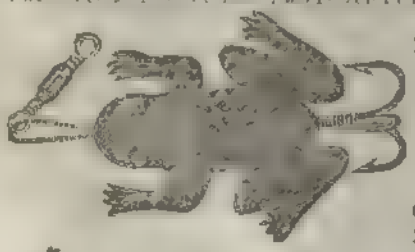
Twelfth Dozen on a Card; Two Dozen in a Box; Weight per Dozen 1¼ lbs.

WEEDLESS

Per Dozen

No. RWF—Two Bronzed File Point Single Hooks No. 6/0 with Looped Steel Wire Weed Guards; Weight Each ½ oz. $13 50

Twelfth Dozen on a Card; Two Dozen in a Box; Weight per Dozen 1¼ lbs.



Per Dozen

No. F—Frog; Soft Rubber Body Length 1½ inches; Painted in Natural Colors; File Point Bronze Treble Hook No. 2 Tied to Silk Gimp Loop; Brass Box Swivel $10 00

Twelfth Dozen on a Card, One Dozen in a Box; Weight per Dozen 6 ozs.

Per Dozen

No. FS—Froggie. Soft Rubber Body; Length ¾ inch; Painted in Natural Colors; File Point Bronze Metal Hook No. 5 Tied to Silk Gimp Loop. $8 00

One Dozen on a Card in a Box; Weight per Dozen 3 ozs.

Items Marked + Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

RUBBER INSECT BAITS

Per Dozen Cards

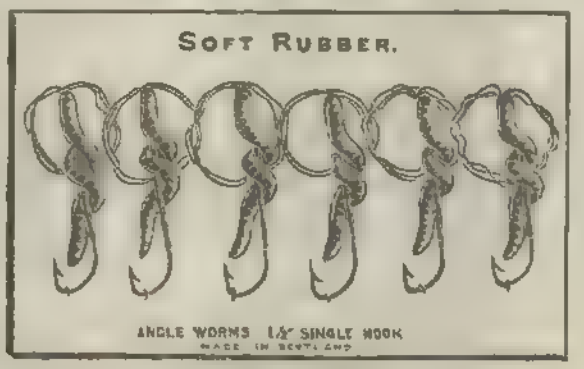
No. 1 Assortment—All Tied on Single Gut Loop. Hollow Point Bronzed Sproat Hooks $39.60

Assorted as Follows

One Silver Spider, Length ⅝ inch, No. 14 Hook
One Green Spider, Length ⅝ inch, No. 14 Hook
Two Black Beetles, Length ¾ inch, No. 7 Hook
Two Silver House Flies, Length ⅝ inch, No. 14 Hook
Two Black House Flies, Length ⅝ inch, No. 14 Hook
Two Red Horse Flies, Length ⅝ inch, No. 14 Hook
Two Red Lady Bugs, Length ⅝ inch, No. 14 Hook

One Dozen on a Card in a Box; Weight per Dozen Cards 3 ozs.

We Do Not Break Cards



ANGLE WORM

Per Dozen

No. AW—Soft Rubber Body. Length 1¾ inches, Painted in Natural Colors; Single Hollow Point, Bronzed Sproat Hooks No. 4, Tied on Double Gut; Weight per Dozen 2½ ozs $6.70

Half Dozen on a Card; One Dozen in a Box

HELGAMITE

Per Dozen

H1—Soft Rubber Body. Length [illegible] inches; Painted in Natural Colors, Hollow Point Bronzed Sproat Hook No. [illegible] on Double Gut, Blue Steel Snap Swivel. Weight per Dozen 5 ozs $8 00

Twelfth Dozen in a Box, Half Dozen in a Carton

CRAWFISH

Per Dozen

No. CF—Soft Rubber Body, Length 3½ inches, Painted in Natural Colors, Hollow Point Bronzed Hook No. [illegible] on Double Silk Gut Loop, Brass Snap Swivel. Weight per Dozen 10 ozs . . . $12 00

Twelfth Dozen on a Card; One Dozen in a Box

GRASSHOPPER

Per Dozen

No. GH—Soft Rubber Body; Length 1¼ inches; Painted in Natural Colors; Hollow Point Bronzed Sproat Hook No. 4; Tied on Single Gut Loop; Weight per Dozen 2 ozs . . . $8 70

One Dozen on a Card in a Box

DOBSON

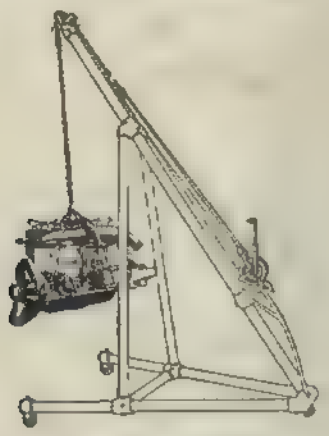
Per Dozen

No. D—Soft Rubber Body. Length 2½ inches; Painted in Natural Colors; Hollow Point Bronzed Sproat Hook No. [illegible] on Double Silk Gut Loop, Brass Snap Swivel. Weight per Dozen 3 ozs . . . $9 00

Twelfth Dozen on a Card; One Dozen in a Box

PORTABLE FLOOR CRANES OR HOISTS

PULL-U-OUT



This crane is built of 2½ in., extra heavy steel tubing, enameled black and shaped so the weight can not tip it over. Base is 3 ft. 3 in. wide and 6 ft. deep. Total height 10 ft.

Equipped with Pull-U-Out No. 1 this crane weighs but 250 lbs., yet it lifts a ton 9½ ft.

One man handles it easily, lifting anything up to ton weight. If desired, the Pull-U-Out can be detached and used separately for all kinds of hoisting and pulling.

Shipped ready to put together. All connections are slip-joints. Can be knocked down or set up in three minutes with only a small S-wrench.

No. 1P—Pull-U-Out—(Including Pull-U-Out Hoist).....Each $100.00

CANTON

Stiffest possible construction, a combination of cast iron and steel.

Has Roller Bearing Wheels.

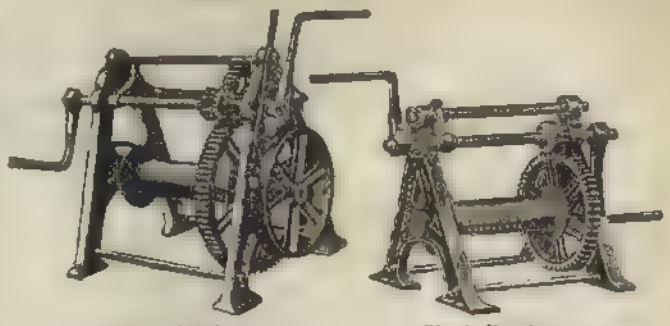
Has Guaranteed-Hand-Forged-Tested-Chain.

Size	Weight Lbs.	Lifting Capacity Lbs	Each
No. 1	600	2,000	$100 00
No. 2	740	4,000	112 50
No. 3	890	5 000	125 00
No. 4	1 150	6 000	150 00
No. 5	1,300	6 500	162 50
No. 6	1,550	7 000	175 00
No. 7	1 800	7 000	187 50
No. 8	2,000	7,000	200 00

Specifications

Size	Total Height Ft.	Total Height In.	Lift Ft.	Lift In.	Over Hang Ft.	Over Hang In.	Width of Bed Outside Ft.	Width of Bed Outside In.	Width of Bed Inside Ft.	Width of Bed Inside In.	Length of Bed Ft.	Length of Bed In.	Height of Bed In.
No. 1	5	8	4	8	2	3	2	5	1	10	2	11	9
No. 2	6	6	5	4	2	6	2	8	2	1	3	2	12
No. 3	7	6	6	4	2	9	2	10	2	4	3	9	12
No. 4	8	6	7	4	3	0	3	4	2	8	4	0	12
No. 5	9	6	8	3	3	3	3	8	3	0	4	8	12
No. 6	10	6	9	3	3	6	4	0	3	4	4	6	12
No. 7	11	6	10	3	3	9	4	5	3	8	4	9	12
No. 8	12	6	11	3	4	0	4	10½	4	1½	5	1	12

IRON HOISTING CRABS OR WINCHES



Double Purchase Single Purchase

For Manila, Wire Rope or Chain

SINGLE PURCHASE

Capacities based upon using 2 and 3 Sheave Rope Blocks in connection with Crab. Will lift one-fifth of the capacity direct from the barrel.

Main gear operated by pinion, without intermediate gear.

Nos.	Capacity, Tons	Length of Drum Inches	Diameter of Drum Inches	With Brake, Each	Without Brake, Each
1	2	13	5	$54.00	$25.00
2	3	18	5	60 00	50.00
3	4	18	5	70.00	58 00
4	5	26	6	80.00	70 00
5	6	30	6	104.00	88.00
6	9	30	6	124.00	106.00

DOUBLE PURCHASE

Used in mines, railroads, stone quarries, machine shops and all places where there is heavy lifting to be done. Building contractors find them especially convenient.

Where convenient to a line of shafting they can be fitted with a tight and loose pulley and may be operated by power.

So constructed that the crank shaft can be thrown out of gear when lowering so that the handles will remain stationary.

Nos.	Capacity, Tons	Length of Drum Inches	Diameter of Drum Inches	With Brake Each	Without Brake Each
10	4	18	5	$ 80.00	$ 70.00
11	5	22	6	92 00	80.00
12	6	22	6	118.00	100 00
13	9	26	6	138 00	120.00
14	12	26	6	164.00	146.00
15	15	30	6	208.00	188.00
16	18	30	6	264.00	236.00
17	24	30	8	360.00	320 00

SHOCK SPRINGS

Used in connection with chain hoists to overcome the constant jar where a chain hoist is used to hold work under a punch, shear, power hammer or similar machines.

Made in the same capacities as the hoists and can be used on the lower hook of the hoists or attached directly to the load chain.

Capacity in Pounds	Length Between Eye and Hook, Inches	Outside Diameter, Inches	Net Weight Pounds	Each
500	13½	3¾	14	$ 3.00
1,000	14	3¾	15	3.00
2,000	15	3½	18	3.50
3,000	16¾	4½	25	4.00
4,000	18½	5	35	5.00
6,000	20	5½	40	7.00
8,000	24½	6½	65	9.00
10,000	27½	6¾	85	12 00
12,000	30¼	7½	120	15.00

No. 7 Portable Rail Saw

Hand Power

Fig. 15.2

This machine is designed for cutting off rails at any angle with their length. The saw blade begins cutting in the center of the head of the rail and will make a true vertical cut at any angle, leaving the ends of the rail perfectly smooth and straight.

We furnish two regular carbon 18-inch diameter by $\frac{5}{32}$ inch thick blades with each machine.

Dexter Valve Reseating Machines

are known wherever valves are used and are the result of twenty five years specializing in tools for repair of valves

Fig 1511

Outfit No 6 T L capacity for reseating globe valves $\frac{1}{4}$ to 6 inches

The Dexter Machines recut a worn valve seat and disc accurately, making a perfectly tight valve that will hold water or steam

The same valve can be recut from ten to twenty times The saving of a few valves pays for a machine Extensively used in mines sugar mills public institutions railroads, ships and manufacturing plants

Net prices for outfits for flat and taper seated globe angle satety and cross valves.

Outfit Number	For Valves Sizes	Price	Outfit Number	For Valves Sizes	Price
3 T L	$\frac{1}{4}$ to 3	$ 87 50	8 T L	$\frac{1}{4}$ to 8	$187 50
4 T L	$\frac{1}{4}$ to 4	102 50	10 T L	$\frac{1}{4}$ to 10	262 50
6 T L	$\frac{1}{4}$ to 6	137 50	12 T-L	$\frac{1}{4}$ to 12	337 50

See previous page for illustration and prices of Dexter Pump Valve Reseating Outfits

Prices of Dexter Gate Valve Reseating Machines

Capacity for Refacing Gate Valves $1\frac{1}{2}$ to 14 inches, on Request

HUNTING KNIVES

Lock Back; Length 3¾ inches; German Silver Fancy Scored Bolster with Guard and Beveled Flush Cap. One Large Spear Blade; Full Polished, Brass Lining. No Shield; Weight per Dozen 16 ozs.

Per Dozen

No. C1001P —Pearl Handle **$32.00**

½ Dozen in a Box

NOTE—The Large Blades on These Knives are Locked When Open; to Release, Press Down on Small Blade and Close in the Usual Manner

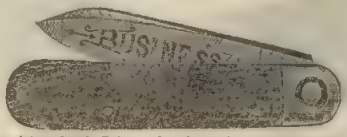
I*XL GEORGE WOSTENHOLM & SON

Lock Back; Length 4⅝ inches; Polished Steel Rat Tail Bolster; One Large Clip Blade, Half Polished; Iron Lining; No Shield. Weight per Dozen 2½ lbs.

Per Dozen

No. B17063—Patent Stag Handle **$15.00**

Half Dozen in a Box

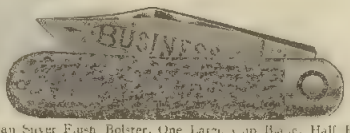


Press Button; Length 3⅞ inches, German Silver Flush Bolster; One Large Spear Blade, Half Polished and Etched, Iron Lining; No Shield; Weight per Dozen 2½ lbs.

Per Dozen

No. K500 Patent Stag Handle **$17.00**

Half Dozen in a Box

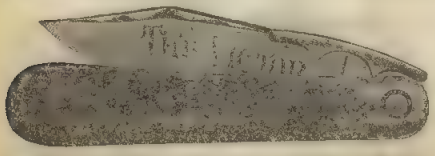


Press Button; Length 3⅞ inches, German Silver Flush Bolster, One Large Clip Blade, Half Polished and Etched; Iron Lining; No Shield; Weight per Dozen 2⅛ lbs.

Per Dozen

No. K510 Patent Stag Handle **$17.00**

Half Dozen in a Box



Press Button; Length 4¼ inches; German Silver Flush Bolster, One Large Clip Blade with German Silver Guard; Half Polished and Etched; Iron Lining, No Shield, Weight per Dozen 4½ lbs.

Per Dozen

No. K1005—Patent Stag Handle **$19.00**

Half Dozen in a Box

Press Button; Length 4⅞ inches, German Silver Flush Bolster; One Large Clip Blade Without Guard; Half Polished and Etched; Iron Lining, No shield; Weight per Dozen 8.2 lbs.

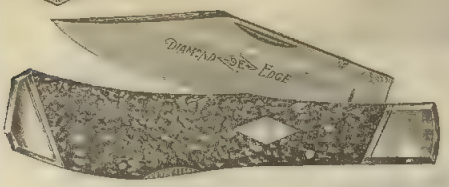
Per Dozen

No. K1000—Patent Stag Handle **$19.00**

Half Dozen in a Box

HUNTING KNIVES

EMPIRE



★DIAMOND EDGE

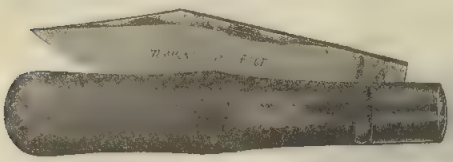
Lock Back; Length 4½ inches; Flat Thin Pattern; Scored German Silver Biased Bolsters; Diamond Shield; Brass Lining; One Large Clip, Beveled or Saber Blade; Half Polished and Etched; Weight Per Dozen 3½ Lbs.

Per Dozen

No. 1S79¼ST—Patent Stag Handle..... $28 00

No. 1S79¼F - Genuine Ebony Handle..... 27.00

Half Dozen in a Box



Plain Back; Length 5¼ inches; Polished Steel Rat Tail Bolsters; One Large Clip Blade, Glazed and Etched; Iron Lining; German Silver Shield; Weight per Dozen 4½ lbs.

★DIAMOND EDGE

Per Dozen

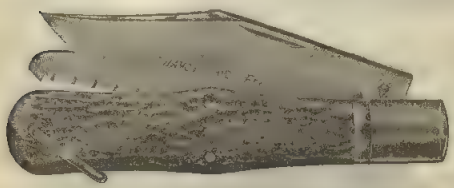
No. 1S78¾E —Ebony Handle..... $17 00

★EMPIRE

Per Dozen

No. 1E78¾E—Ebony Handle..... $17.00

Half Dozen in a Box



Plain Back; Brass Wire Bail; Length 5¼ inches; Polished Steel Rat Tail Bolsters; One Large Clip and One Large Saw Blade, Glazed and Etched; Iron Lining; German Silver Shield; Weight per Dozen 5¼ lbs.

★DIAMOND EDGE

Per Dozen

No. 2S78¾CS ST—Patent Stag Handle; One Large Spear and One Large Clip Blade..... $24.00

Half Dozen in a Box

Lock Back; Length 4½ inches; Polished Steel Rat Tail Bolsters; One Large Clip Blade; Quarter Polished and Etched; Iron Lining; No Shield; Weight per Dozen 2¼ lbs.

★DIAMOND EDGE

Per Dozen

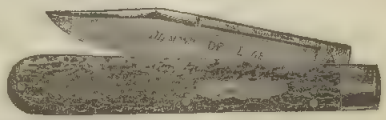
No. 1S77¾ST—Patent Stag Handle..... $21.60

★EMPIRE

Per Dozen

No. 1E77¾ST—Patent Stag Handle..... $17.30

Half Dozen in a Box



Lock Back; Length 4¼ inches; German Silver Flush Bolsters; One Large Clip Blade; Half Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 1¾ lbs.

★DIAMOND EDGE

Per Dozen

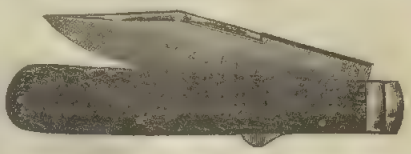
No. 1S17¾ST—Patent Stag Handle..... $21.60

★EMPIRE

Per Dozen

No. 1E17¾ST—Patent Stag Handle..... $21.60

Half Dozen in a Box



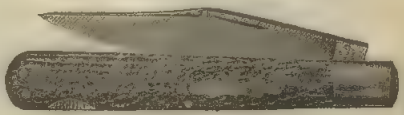
★BRIDGE CUTLERY CO.

Lock Back; Length 4⅝ inches; Polished Steel Rat Tail Bolsters; One Large Clip Blade; Half Polished and Etched; Iron Lining; No Shield; Weight per Dozen 2½ lbs.

Per Dozen

No. 1B77¾ST—Patent Stag Handle..... $21.60

Half Dozen in a Box



★G. W. PUTNAM & CO.

Lock Back; Length 4½ inches; Polished Steel Flush Bolsters; One Large Clip Blade, Glazed; Iron Lining; German Silver Shield; Weight per Dozen 2½ lbs.

Per Dozen

No. P1103ST—Patent Stag Handle..... $10 00

Half Dozen in a Box

VACUUM WATER SERVICE SETS.

HOT-A-KOLD.

Vacuum Water Sets are most convenient and serviceable in the home. Becomes available at times when hot or cold liquids are required for use in the dining room, sleeping room, living room or on the veranda. Indispensable in the sick room.

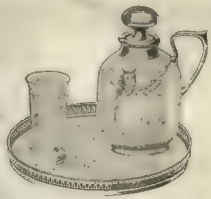
Per Set

No. 151-1—Water set; rose color enameled jug and tray; glass stopper; 6-oz glass tumbler; capacity of jug, 1 pint; diameter of tray, 10 inches..... **$13.30**

No. 151-3—Water set, turquoise color enameled; otherwise as No. 151-1.. **13.30**

Per Set

No. 151-10—Water set; white enameled jug and tray, with Adam decoration; has glass stopper; 6-oz. glass tumbler; capacity of jug, 1 pint; diameter of tray, 10 inches..... **$19.50**



Per Set

No. 150-17—Water set; white enameled jug and tray, with owl decoration; has glass stopper; 6-oz. glass tumbler; capacity of jug, 1 pint; diameter of tray, 10 inches..... **$18.00**

CAFENOIRAS.

UNIVERSAL.

Cafenoira at work, fascinates every watcher. The whole percolating process, visible through the glass, is a most attractive sight at any table After dinner coffee made in the Cafenoira is distinguished by its rich full flavor and aroma

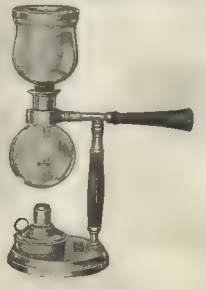
Made almost entirely of glass the Universal Cafenoira is perfectly sanitary and appeals to many for that reason

All this combination of simplicity, cleanliness, efficiency and attractiveness is not a luxury. In fact it is an economy, for you can use one teaspoonful of coffee to make a stronger beverage than you make of one large tablespoonful by ordinary methods

Each

No. 16 –Cafenoira; plain glass bowl and funnel, nickel plated frame and alcohol lamp, ebonized grip handle; capacity, 6 cups. **$8.00**

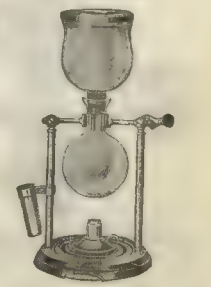
No. 18—Cafenoira; capacity, 8 cups; otherwise as No 16 ..... **9.34**



Each

No. 26—Cafenoira; plain glass bowl and funnel; silver plated frame; ebonized handles; capacity, 6 cups..**$9.34**

No. 28—Cafenoira; capacity, 8 cups; otherwise as No. 26.....**10.70**



Each

No. 36—Cafenoira; plain glass bowl and funnel; turn over style; nickel plated frame and alcohol lamp; capacity, 6 cups.....**$10.70**

SHEFFIELD PLATE ELECTRIC WARE.

UNIVERSAL.

SILVER PLATED ON NICKEL SILVER. OLD ENGLISH CHASED PATTERN.

Each

No. E840—Chafing Dish; silver plated on nickel silver; ebonized handles and feet; fast and slow heat connections; 450 and 160 watts **$40.50**

Each

No. E843—Toaster; silver plated on nickel silver; ebonized feet; height over all, 6⅞ inches; weight, 2⅝ lbs.; 350 watts **$16.20**

Each

No. E8646—Coffee Percolator; silver plated on nickel silver; ebonized handles and feet; capacity, 6 cups; height, 9½ inches; weight, 9½ lbs. **$37.15**

No. E8649—Coffee Percolator; capacity, 9 cups; height, 11 inches; weight, 6 lbs.; otherwise same as No. E8646 ..... **43.20**

Each

No. E8149—Coffee Urn; silver plated on nickel silver; ebonized handles and feet; capacity, 9 cups; height, 15 inches; weight, 9 lbs. . **$44.60**

Per Set

No. 8166044—Coffee Urn Set; consisting of silver plated on nickel silver, urn with ebonized handles and feet, capacity 6 cups, height 15½ inches, gold lined sugar bowl and creamer; satin center waiter, length 18 inches **$95.20**

No. 8169044—Coffee Urn Set; capacity of urn, 9 cups, height 17½ inches; otherwise as above **98.55**

Furnished complete with 6-foot art silk flexible cord and 7-point contact terminal plug.
Each article put in a white cotton bag and packed one in a box or strong carton.

SILVER PLATED WARE.

TEA AND COFFEE SETS.

QUADRUPLE PLATED, BURNISHED, ENGRAVED WITH ROCOCO BORDER.

Each

No. 50—Tea Pot; height 8 inches **$9.50**
No. 50—Sugar Bowl; height 5½ inches **6.50**
No. 50—Spoon Holder; gold lined; height 4¼ inches **5.80**
No. 50—Cream Pitcher; gold lined; height 4½ inches **5.80**

Per Set

No. 50—3-piece set; sugar, cream and spoon holder **$18.10**
No. 50—4-piece set; tea, sugar, cream and spoon holder ... **27.60**

QUADRUPLE PLATED ON NICKEL SILVER, BURNISHED: APPLIED THREADED BORDERS.

Each

No. C253—Tea Pot; height, 7½ inches **$26.40**
No. C253—Coffee Pot; height, 8¼ inches **28.00**
No. C253—Sugar Bowl; height, 6¾ inches **19.80**
No. C253—Cream Pitcher; gold lined, height, 4½ inches **17.40**
No. C253—Waste Bowl; gold lined; height, 3¼ inches .. **12.00**

Per Set

No. C253—2-piece set; sugar bowl and cream pitcher .. **$37.20**
No. C253—4-piece set; tea, sugar, cream and waste bowl. **75.60**
No. C253—5-piece set; coffee, tea, sugar, cream and waste bowl **103.60**

Three-Inch Water Tank Specifications

Fig 37

All staves will be full length without splicing. Every joint will be machine made and perfect, and the stave joints will be sawed on true radial lines with due regard to top and bottom diameter of tank.

The lists below are for tanks only, and are made from 3" cypress.

Length Stave	Diameter	No. Hoops	Gallons Capacity	Barrels Capacity	Weight Pine	Price Pine	Weight Cypress	Price Cypress
10	10	8	1750	150	3100	$ 50 00	3700	$224 00
12	10	9	3700	182	3500	61 00	4100	238 00
14	10	10	6080	212	4000	184 00	4800	268 00
10	12	8	7013	224	4000	85 00	4800	271 00
12	12	9	8488	263	4500	198 00	5600	287 00
14	12	10	9802	314	5200	222 00	6300	324 00
16	12	12	11293	358	5800	251 00	7100	364 00
10	14	8	9773	310	4800	225 00	5900	329 00
12	14	9	11774	374	5500	239 00	6700	348 00
14	14	10	13799	436	6200	268 00	7600	391 00
16	14	12	15761	498	6900	303 00	8500	439 00
10	16	8	12945	410	5700	266 00	7000	392 00
12	16	9	15507	495	6700	287 00	8200	416 00
14	16	10	18220	574	7300	325 00	9000	469 00
16	16	12	20833	661	8200	360 00	10000	519 00
18	16	14	23429	743	9200	417 00	11500	604 00
12	18	9	19956	633	7700	349 00	9300	491 00
14	18	10	23340	741	8700	376 00	10000	547 00
16	18	12	26853	847	9700	419 00	11800	607 00
18	18	14	30004	952	10900	483 00	13200	701 00
20	18	15	33288	1057	11900	546 00	14400	797 00
12	20	9	24872	788	9000	405 00	10100	578 00
14	20	10	29080	923	10100	442 00	12300	642 00
16	20	12	33270	1056	11200	487 00	13800	707 00
18	20	14	37423	1191	12500	530 00	15100	813 00
20	20	15	41511	1319	13700	631 00	16500	921 00
12	22	10	30285	961	10300	456 00	12500	670 00
14	22	11	35451	1125	11500	502 00	13900	738 00
16	22	12	40576	1288	12600	546 00	15300	804 00
18	22	14	45660	1449	14000	627 00	17000	920 00
20	22	16	50762	1609	15400	715 00	18800	1047 00
12	24	10	36254	1151	11600	546 00	14100	753 00

Other sizes can be made; send specifications. Discount

Halladay Outlet Valve Spout and Fixtures

Fig 38

Description	Price	Weight
6-inch, for 18 feet diameter tank, including valve	$70 00	800 pounds
6-inch, for 20 feet diameter tank, including valve	75 00	850 pounds
6-inch, for 24 feet diameter tank, including valve	80 00	900 pounds
7-inch, for 16 feet diameter tank, including valve	80 00	880 pounds
7-inch, for 20 feet diameter tank, including valve	85 00	930 pounds
7-inch, for 24 feet diameter tank, including valve	90 00	1,000 pounds
8-inch, for 16 feet diameter tank, including valve	90 00	1,000 pounds
8-inch, for 20 feet diameter tank, including valve	95 00	1,075 pounds
8-inch, for 24 feet diameter tank, including valve	100 00	1,150 pounds
10-inch, for 16 feet diameter tank, including valve	122 00	1,220 pounds
10-inch, for 20 feet diameter tank, including valve	128 00	1,340 pounds
10-inch, for 24 feet diameter tank, including valve	134 00	1,460 pounds
12-inch, for 24 feet diameter tank, including valve	182 00	2,020 pounds

In ordering, always state the diameter and height of tank, elevation and distance to center of track

Above weights are for short radius fixtures For long radius fixtures, add 10 per cent to weight given above, together with weight of drop pipe if one is required

Halladay Outlet Valves Only

Description	Price	Weight
6-inch valve	$12 00	85 pounds
7-inch valve	15 00	100 pounds
8-inch valve	18 00	120 pounds
10-inch valve	30 00	180 pounds
12-inch valve	40 00	200 pounds
14-inch valve	55 00	275 pounds

Car Derailers and Replacers

Fig. 94

Car Derailer

Price, per pair $30 00

The Tilden Car and Locomotive Replacing Frogs

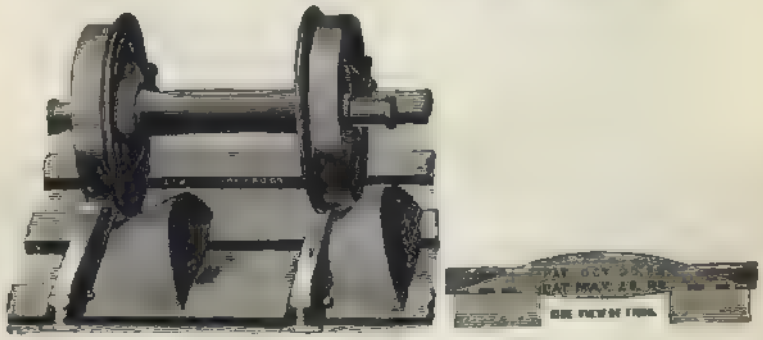


Fig. 95

The power of gravity never admits of the wheels passing the slant side Illustrated. The wheels go laterally to their place upon the rail as soon as the tread on the inside wheel and the flange on the outside wheel come to an altitude equal to the top of the rails as Illustrated above

This cut illustrates a pair of wheels upon a pair of our frogs where the wheels must slide to their proper place on the rails whether under a car or engine These frogs are in use on more than eight hundred Railroads and have proven more efficient than any other device in use for re-railing any derailed rolling stock Several cars can be replaced by one setting of these frogs As the train is pulled ahead and each pair of wheels reaches the frog it is carried up and onto the rails with wheels had very flat tires, a considerable distance from the rails the first setting of the frogs slews the trucks and carries them laterally, the second, places the wheels on the rails It is immaterial whether trains be pulled ahead or backed up the frogs being double-enders the result is the same They are complete, self-contained car and locomotive replacers These replacers are the greatest time savers in railway service Proper work fully developed by the most severe practical and technical tests are found to be perfect These frogs will replace any rolling stock to any rail in about one half the time of any other devices

The Tilden Replacer is made in the following sizes

No 2 for rail up to 60 pounds, weight per pair, 185 pounds

No 3 for rail 60 to 85 pounds; weight per pair, 208 pounds

No 4 for rail 80 to 100 pounds, weight per pair, 220 pounds

The weights mentioned in the above table are figured including clamps

The Aldon Car Replacers

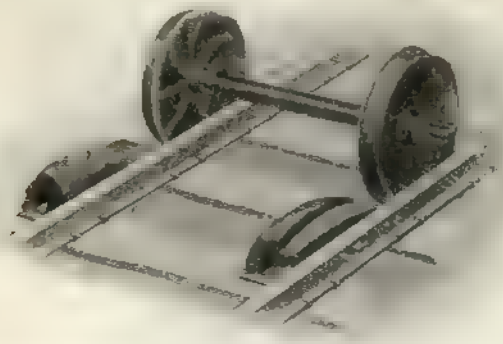


Fig. 96

Frogs are marked right and left. The right frog is always placed next adjacent to the right rail, the left frog to the left rail. Place the high end as close to the rail as possible. The weight of the car on end of the frogs must never be placed on top the flange of the rail.

No.	Material	Equipment Suitable For	For Rail Type to	Weight Pounds	Price Per Pair
1	Cast Steel	Heaviest	100	200	$51 50
2	Cast Steel	Modern	85	180	20 00
3	Malleable Iron	Electric Suburban	70	100	23 20
3½	Malleable Iron	Electric Suburban	50	100	25 20
4	Malleable Iron	Industrial	35	55	19 50
5	Malleable Iron	Street Railways	40	40	9 50

Johnson Car Replacers

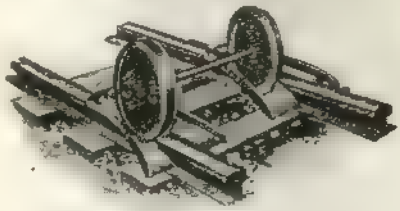


Fig. 97

These are in general use by Steam and Logging Railroads, Contractors and Mines. Have three points of contact on supporting rail and will not rock, as the saddle the rail and replacer wheels on both sides of rail in one setting. Do not require bolts clamps screws or wedges to hold in place when in operation. Full sections of rail from 6 inches down, these frogs will also work.

Type	For Rail Up to Weight Pounds	For Rail Up to Height Inches	Capacity Locomotive	Weight Pounds	Price Per Pair
M	45	3½	20-ton	30	122 00
C	65	4	30-ton	66	27 00
B	80	4½	50-ton	110	36 30
A	100	5¾	80-ton	145	40 70
Z	100	6	Tractor	155	44 00
AA	100	8	200-ton wreck outfit	275	72 60

Ticket Punches

Crocker

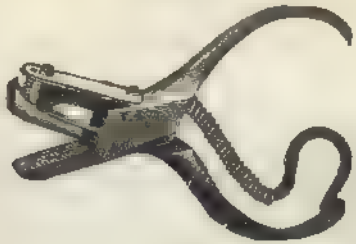


Fig. 1225

Genuine Crocker

Price .... per dozen $33.00

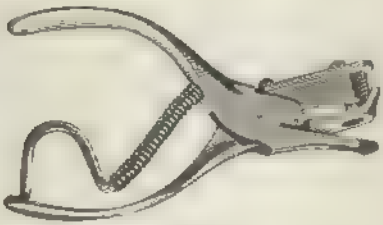


Fig. 1226

Crocker Pattern

Price ... per dozen $30.00

Fig. 1227

Price ,per dozen $24.00

For steering transfers, numbers can be partly seen through the punch

Fig. 1228

Price . per dozen $16.00

Made with long slot.

Hoes

Two-Hole Mortar Mixers

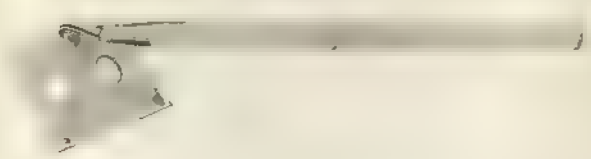


Fig. 1239

No 9MM	9-inch shank mortar mixers, plain ferrules, 5½-foot handles	per dozen	$8 60
No 9MMO	9-inch shank mortar mixers strap ferrules, 5½-foot handles	per dozen	9 20
No 9MMS	9-inch socket mortar mixers 5½-foot handles	per dozen	9 00
No 10MM	10-inch shank mortar mixers plain ferrules, 6-foot handles	per dozen	9 20
No 10MMO	10-inch shank mortar mixers, strap ferrules 6-foot handles	per dozen	9 80
No 10MMS	10-inch socket mortar mixers, 6 foot handles	per dozen	9 60

Mortar Hoes

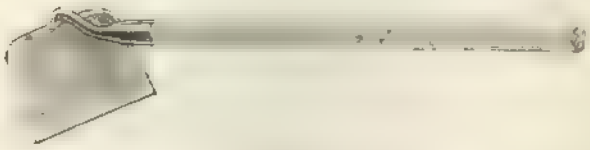


Fig. 1230

No 9	Shank 9-in blades plain ferrules 5½-ft handles	per dozen	$8 00
No 9O	Shank, 9-in blades strap ferrules, 5½ ft handles	per dozen	8 60
No 9S	Socket, 9-in blades 5½ ft handles	per dozen	8 40
No 10	Shank 10-in blades plain ferrules 6 ft. handles	per dozen	8 50
No 10O	Shank, 10-in blades strap ferrules, 6-ft handles	per dozen	9 10
No 10S	Socket 10-in blades, 6 ft handles	per dozen	8 90

For 6½-foot handles, add $0 40 to 6-foot list
For 7 -foot handles, add 80 to 6-foot list
For 7½-foot handles, add 1 40 to 6-foot list
For 8 -foot handles, add 2 00 to 6-foot list.

Seamless Copper-Plated Steel Lamps

No.	Size	Diameter Inches	Per Dozen
[illegible]	1 pint	[illegible]	$ 9 00
23	1 quart	4	12 00
24	1 quart	4½	15 00

Protection Approved, Safety Cans

Size	Price	Special Funnels Per Dozen	Size	Price	Spare Parts Per Dozen
1 pint	$1 75	$ 80	2 gallon	$2 50	$0 90
1 quart	1 50	80	3 gallon	4 00	90
1 quart	1	80	5 gallon	5 00	1 20
1 gallon	2 00	1	1 gallon	7 50	1 20

The Cans That Cannot Explode

Fig. 31

Flat Top Jacket Transportation Cans

5-gallon	each $1 00
10-gallon	each 1 90

Rex Cans

1-gallon, wood jacket	each	$0 75
2-gallon, wood jacket	each	90
3-gallon, wood jacket	each	1 00
5-gallon, wood jacket	each	1 15
10-gallon, wood jacket	each	1 50

Discount

Fig. 32

Fig. 33

Tin Kerosene Cans

½-gallon, cone top	per dozen	$ 5 85
1-gallon, cone top	per dozen	7 50
2-gallon, cone top	per dozen	12 00
½-gallon, flat top	per dozen	5 20
1-gallon, flat top	per dozen	6 65
2-gallon, flat top	per dozen	11 25

Discount

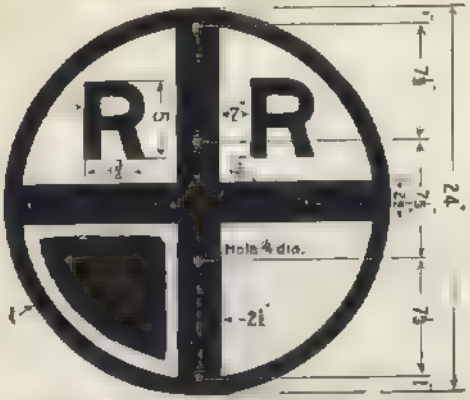
Plain Round Cans

No Spout

½-gallon	per dozen	$ 2 10
1-gallon	per dozen	3 00
2-gallon	per dozen	4 50
3-gallon	per dozen	5 25
5-gallon	per dozen	6 70
10-gallon	per dozen	10 45

Discount

Advance Crossing Signals

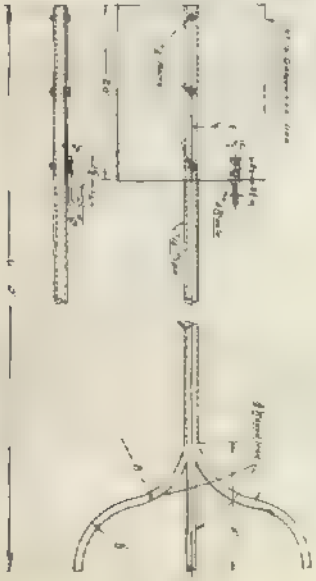


Heavily [illegible] No. 14 gauge steel, letter and border black, background white. Socket for lamp, No. 141, page 77. [illegible] to bracket on post and [illegible] sign.

Standard Slow Track Signal

Green or yellow discs with green and yellow signal lamp

No. 287 Car Repairer's Flag



No. 287
Painted blue with [illegible] for [illegible]

No. 286 Crossing Watchman Metal Flag

No. 286

Torpedoes

Signal Fuses

5-minute, red	per gross
5-minute green	per gross
5-minute, yellow	per gross
10-minute, red	per gross
10-minute, green	per gross
10-minute, yellow	per gross

Railroad and Express Way-Bill Pillar Press

Wrought Iron Pillars, Steel Arch

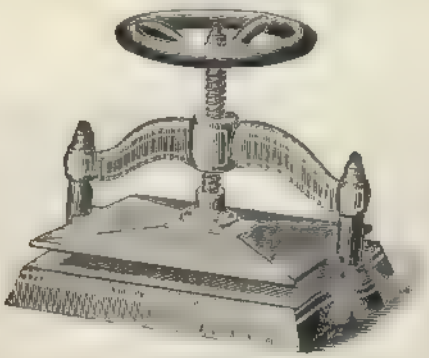


Fig. 1420
Style "P"

Finished in black with bronze ornamentation, nickel plated pillars and nuts

No. 3 receives book 15 x 20 inches . . . . . each $35 00
No. 4 receives book 18 x 22 inches . . . . . each 36 00
No. 5 receives book 20 x 24 inches . . . . . each 38.00

Extra Heavy Railroad and Express Way-Bill Pillar Press

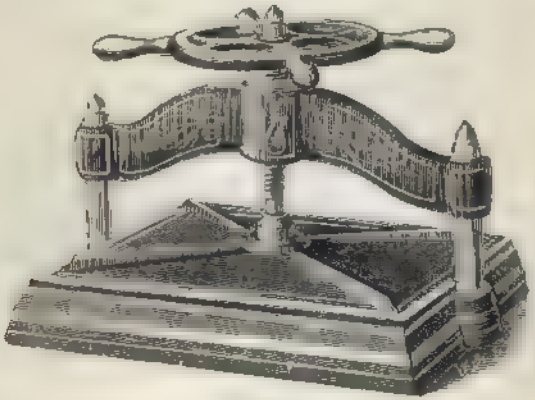


Fig. 1421
Style "R"

Wrought iron pillars, nickel plated pillars and nuts, carmine finish

No. 6 receives book 20 x 24 inches . . . . . each $45 00
No. 7 receives book 22 x 28 inches . . . . . each 55 00

Sand Blasters

The Buckeye Sand Blast, Type A

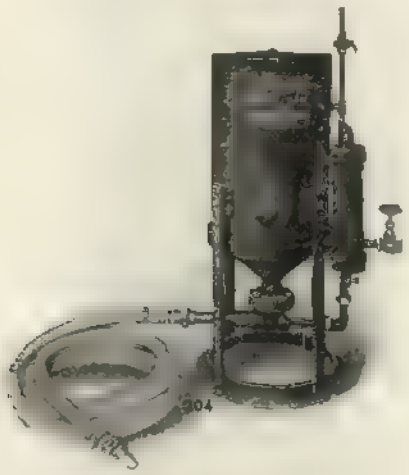


Fig 1419

Prices and other Particulars

Size No	Tank Capacity of Sand Pounds	Price of Design Shown on Page	Approximate Gross Weight Pounds	Boxed Cubic Feet
1	300	$150 00	250	20
2	600	240 00	450	30
3	1,000	300 00	900	54
4	2 000	420 00	1,200	70
5	4,000	540 00	1,500	110
6	8,000	750 00	3,000	160

We also build these outfits having several nozzles supplied from one tank

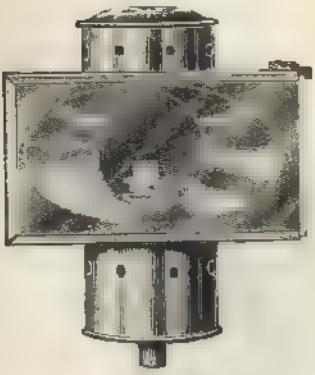
Included in the price with each sand blast is the following: Tank of the capacity named with all valves and fittings, special hose having a pure gum lining as follows 12½ feet with sizes No 1 and No 2 and 25 with sizes Nos 3, 4 5 and 6

Extra nozzle holder, a number of extra nozzles, head cover and various sundries necessary for a complete outfit.

Any hose above the quantity named above will be charged for extra

Handlan Steam Gauge Lamps

No. 254



No. 254

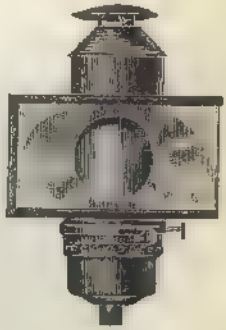
Heavy tin	per doz	$21 00
Heavy tin, japanned	per doz	24 00
Brass, polished	per doz	48 00

No. 255

No. 255

Brass, with colored globe	per doz	$54 00

No. 263



No. 263

Heavy tin	per doz $27 00
Heavy tin, japanned	33 00

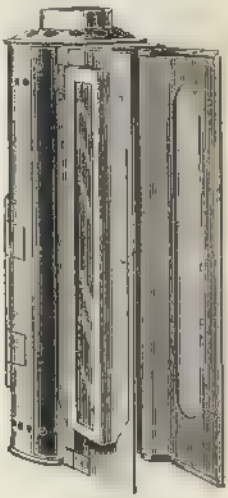
Water Gauge Lamps

No. 256

No. 256

Heavy tin	per dozen	$18 00
Heavy tin, japanned	per dozen	21 00
Brass, polished	per dozen	42 00

No. 257



No. 257

Heavy tin	per dozen	$21.00
Heavy tin, japanned	per dozen	24.00
Brass, polished	per dozen	48.00

If you have standard lamps send us your blue prints for special prices

Handlan Water Gauge Lamps

No. 258

No. 258

Heavy tin . . . . . per dozen $21 00
Heavy tin, japanned . . . . . per dozen 24 00
Brass, polished . . . . . per dozen 48 00

No. 259

No. 259

Heavy tin . . . . . per dozen $15 00
Heavy tin, japanned . . . . . per dozen 18 00
Brass, polished . . . . . per dozen 36 00

No. 260

No. 260

Brass . . . . . per dozen $18 00
Brass, nickel plated . . . . . per dozen 24 00

No. 264 Water Gauge Lamp

No. 264

Heavy tin . . . . . per dozen $21 00
Heavy tin, japanned . . . . . per dozen 24 00

No. 5-A Improved Velocipede

Roller Bearing

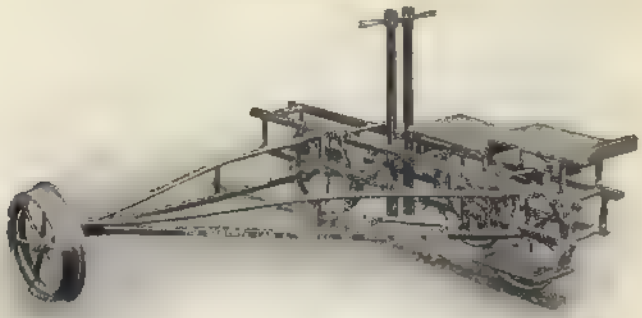


Fig. 202

Standard gauge. Designed especially for use of telegraph linemen.

No. 1 Standard Hand Cars

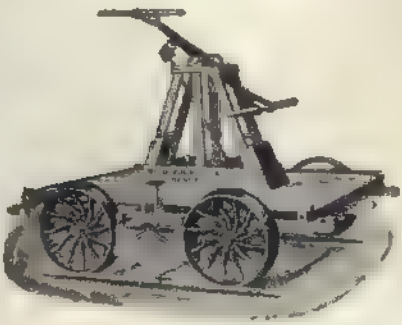


Fig. 2..

Standard gauge; platform, 6 feet long by 4 feet 5 inches wide; wheels, 20 inches diameter; axles, $1\frac{1}{2}$ inch diameter; weight, 500 pounds.

No. 42 Standard Push Car

Fig. 204

Standard gauge; platform 6 feet long by 3 feet 6 inches wide; 24-inch diameter pressed steel wheels 1½-inch diameter axles

No. 43 Extra Heavy Push Car

Fig. 205

Standard Push Cars with Steel Wheels

Standard gauge; platform, 7 feet long by 3 feet 7 inches wide; wheels, [illegible] inch diameter steel axles, 1⅝-inch diameter; weight, 450 pounds

Fig. 206

Standard Track Laying or Rail Car

Standard gauge; 8 feet long by 6 feet 6 inches [illegible] wheels, 16-inch diameter, with [illegible] axles, 2¾-inch diameter; capacity, [illegible] tons; [illegible], 4 x 8-inch oak [illegible] sills plated with iron. Car fitted with [illegible] and tool boxes and has two rollers at each end

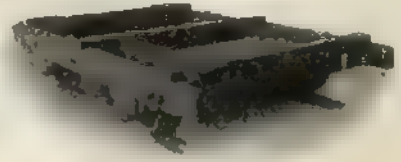


Fig. 207

Railroad Oilers

Fig 24

Steel Copper-Plated

No.	Size	Diameter Inches	Height Inches	Nozzle Inches	Per Dozen
10	1-pint	3⅝	5	12	$14 00
12	1-quart	4½	6	18	18 00
100	1-pint	3⅝	8½	9	14 00
101	1-quart	4½	6	12	18 00
111	2-quart	5	8	10 or 14	20 00

Brass

17	1-pint	3⅝	5	12	$18 00
18	1-quart	4½	6	18	21 00
18A	2-quart	5	8	10 or 14	24 00

Extra Nozzles

For Either Brass or Copper-Plated Oilers

		Copper Plated	Brass
4-inch		per dozen $2 75	$3 50
5-inch		per dozen 3 25	4 25
6-inch		per dozen 4 25	5 00
12-inch		per dozen 5 75	6 25
18-inch		per dozen 7 00	7 50
14-inch	extra large opening for Nos. 100, 101 and 111	per dozen 9 00	10 00

Chace's Patent Zinc Oilers

		Zinc Tin Bottom	Brass
No. 0.	Spun oilers	per dozen $1 25	$2 25
No. 1.	Spun oilers	per dozen 1 50	2 50
No. 1½.	Spun oilers	per dozen 1 75	3 00
No. 2	Spun oilers	per dozen 2 00	3 50
No. 3	Spun oilers	per dozen 2 25	4 00
No. 4	Spun oilers	per dozen 2 75	4 75
No. 5	Spun oilers	per dozen 3 50	6 00
No. 6	Spun oilers	per dozen 4 50	7 50

Discount

Fig 25

Copper-Plated Steel Engineers' Fillers

Fig. 26

No.	Size	Diam. Inches	Height Inches	Per Doz
19	1 pint	4¼	3½	$14 00
19½	1 pint	4¾	4	17 00
20	1 quart	5	5	20 00
20½	½ gallon	6	6	24 00

Brass Engineers' Fillers

No.	Size	Diam. Inches	Height Inches	Per Doz
170	1 pint	4¼	3½	$18 00
190	1 pint	4¾	4	22 00
200	1 quart	5	5	26 00
201	½ gallon	6	6	34 00

Copper-Plated Steel Tallow Pots

No.	Size	Diam. Inches	Height Inches	Per Doz
21	1-quart	5	5	$21 00
21½	2-quart	6	6	25 00

Fig. 27

Copper-Plated Steel Jacket Lamps

Fig. 28

No.	Size	Diameter Inches	Per Dozen
20	5 ounces	2¾	$6 00
20	½ pint	3¾	9 00
20	1 pint	4¾	12 00

The Pony Tie Car

Fig. 253

You will see at a glance the Pony Car is useful and valuable.

Platform 52 x 16 inches

Carries ties, timbers and rails

Weight 100 pounds

Ballast Box on Pony Car with Skid Set

The ballast box hooks on over the crescent brace of the Pony Car. Fits close to the car. Will not slide endwise or forward.

Weight of box, 107 pounds

Box detachable, and sold separately

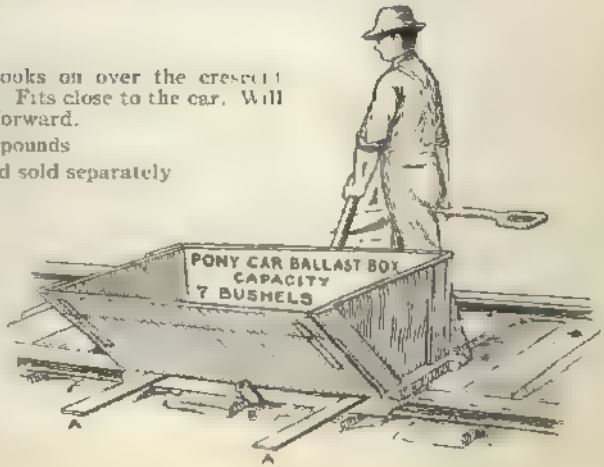


Fig. 254

Western Side Dump Cars

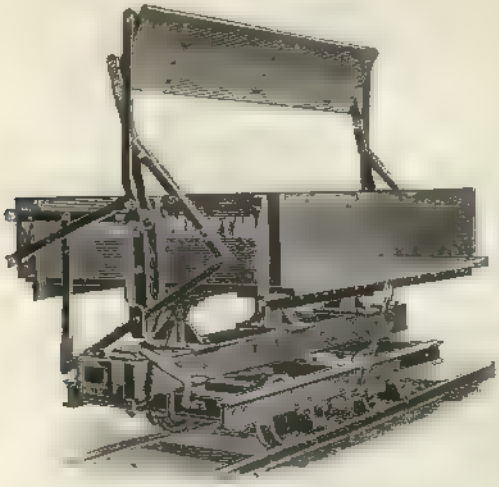


Fig. 255

Gauge

The standard gauge for the 1¼ and 1½ yard sizes is 24 inches; 3-and 4 yard, 38 inches, and 5, 6 and 12-yard, 4 feet 8½ inches. A car holding 1½ cubic yards will stick to the track better on a 24-inch than on a narrower gauge, while the wider gauge track is more economically maintained. The Western cars of above gauges are several inches lower and dump at sharper angle than the old-fashioned cars on narrower gauge. While the above are the standard, cars will be made on any desired gauge, at an extra cost.

Western Rotary Dump Car

Fig. 256

1 ¼ yard car—Gauge 24 inches; wheels 12 inches; axles 2 inches; bronze journal bearings 1 ¾ x 4½ inches; weight about 1500 pounds.

1½ yard car—Gauge 24 inches; wheels 14 inches; axles 2¼ inches; bronze journal bearings 1¾ x 4½ inches; weight about 1800 pounds.

2-yard car—Gauge 30 inches; wheels heavy pattern, 14 inches; axles 2½ inches; bronze journal bearings, 2⅜ x 5½ inches; weight about 2800 pounds.

Changes in gauge or in other respects can be made where required. Quotations on application.

SPRING PUNCHES.

+RIVERSIDE.

SINGLE TUBE.

Single tube cast steel, steel spring, polished finish.

Per Dozen

No. 10—Length, 8 inches; tubes assorted Nos. in box as follows: 4, 5, 6, 7, 8, 9 and 10; weight per dozen, 8½ lbs.. **$12.00**

EXTRA TUBES.

Per Dozen

No. 10T—Cast steel, to drive, assorted..... **$2.80**

One dozen in a package.

REVOLVING.

Four tubes, assorted sizes, cast steel, polished finish.

Per Dozen

No. 40—Length, 8 inches; tubes assorted Nos. 4, 5, 6, 7, 8, 9 and 10; weight per dozen, 9½ lbs..... **$20.50**

No. 60—6 tube, otherwise same as No. 40; weight per dozen, 9¾ lbs..... **24.00**

Half dozen in a box.

EXTRA TUBES.

Per Dozen

No. 40T—Cast steel, to drive, assorted..... **$2.80**

Half dozen in a package.

OSBORNE.

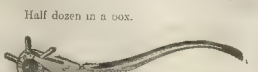
Extra Fine Quality, for Saddlers' Use.

For saddlers' and mechanics' use; are made from high grade steel; extra strong springs; entire tool is highly polished finish

Each

No. 153—Spring Punches; single tube, sizes 1 to 8; length, 8 inches; weight per dozen, 8½ lbs..... **$1.70**

Half dozen in a box.



For saddlers' and mechanics' use. Made from high grade steel; extra strong springs; entire tool is highly polished finish.

Each

No. 155-4—Tube Punches; 4 revolving tubes; sizes assorted 1 to 8; length, 8 inches; weight per dozen, 9½ lbs.... **$2.50**

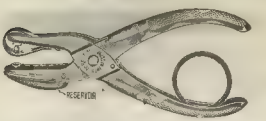
No. 155-6—Tube Punches; 6 revolving tubes; sizes assorted 1 to 8; length, 8 inches; weight per dozen, 10 lbs.... **3.00**

Half dozen in a box.

Each

Screw Tubes, for Nos. 153 and 155 Spring Punches..... **$0.30**

CONDUCTORS' PUNCHES.



Conductors' or ticket punch. Has spring reservoir to catch waste clippings. Made from pressed steel; coil spring; assorted shape dies; knurled handle. Entire punch is nickel plated.

Per Dozen

No. 260—Ticket Punches; assorted dies; length, 5 inches; weight per dozen, 2 lbs..... **$7.00**

Half dozen in a box.

Conductors' or ticket punch. Made from cast steel; polished finish; steel wire spring; assorted dies.

Per Dozen

No. 12—Conductors' Punches; assorted dies; length, 4½ inches; weight per dozen, 2½ lbs..... **$20.00**

Half dozen in a box.

Conductors' or ticket punch. High grade steel; nickel plated finish; extra strong steel wire spring; assorted dies.

Per Dozen

No. 9—Conductors' Punches; assorted dies; length, 5 inches; weight per dozen, 3 lbs..... **$26.50**

Half dozen in a box.

High grade conductors' punches. Made from high grade steel, full nickel polish finish; extra strong coil spring; special shape assorted dies.

Per Dozen

No. 6—Conductors' Punches; special assorted dies; length, 5½ inches; 1¾ inch slot; weight per dozen, 5 lbs..... **$42.50**

Half dozen in a box.

High grade conductors' punches; special design; full nickel plated finish; assorted shape dies. Street car and railroad conductors prefer this shape owing to its great strength and compact design.

Per Dozen

No. 3—Conductors' Punches; assorted shape dies; length, 4 inches; 1¼ inch slot; weight per dozen, 3 lbs..... **$64.00**

One in a box.

Skid Shoes

Fig. 89

The uses of the skid shoes are not confined to clearing main line tracks of disabled cars. As a buffer, or brake, to stop runaway cars where sidings are on a grade at the foot of coal inclines, on coal trestles, or where flying switches are used in gravity hump yards, the skid shoe has been found most efficient and very serviceable

The No. 3 size skid shoe, or track skate, is used extensively for plowing down ballast and clearing cinder tracts. In this use, a tie or board, is placed in front of the skids and the ballast, or cinders, "float" by, clear of the tracks thereby eliminating the possibility of getting "flat wheels" as is generally the case when wheels are chained

The skid shoes are made in these sizes
No. 1 size, weighing about 190 pounds per set
No. 2 size, weighing about 140 pounds per set
No. 3 size, weighing about 100 pounds per set
Skid shoes fit all rail sizes. Prices quoted upon request

Guard Rail Clamps

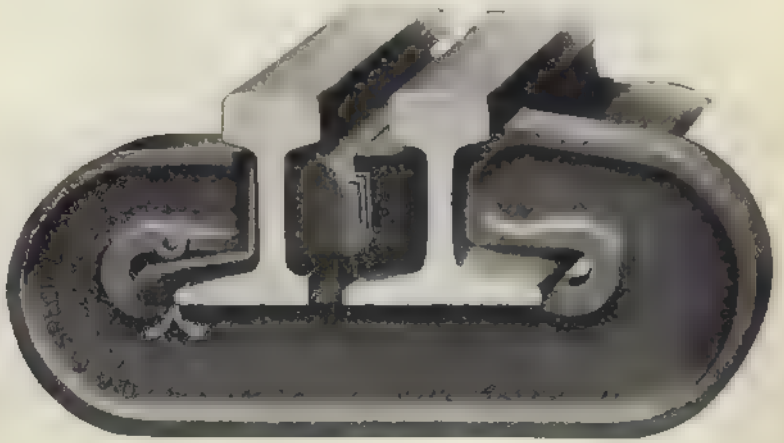


Fig. 90

Universal Guard Rail Clamps are made in two sizes, No. 1 and No. 2. The No. 2 size is designed to clamp guard rails of heavier sections for use on heavy steam railroads, the guard rail being heavy T rails. It can be used with plates applied with bolts passing through the guard rail. If desired, the plates can be furnished so that they do not interfere with detector bars

The yoke is drop forged, high carbon, open hearth steel of the "I" beam construction. The wedge, or pasts, bolts, locks and lock nuts are malleable iron and accurately fitted to the section of rail

The wedge is secured in place by a [illegible] bolt. The shelf on the wedge and the wide bearing surface of the shoe, maintain the vertical alignment of the yoke

As the yokes are interchangeable for all standard T rail sections of rail, it is only necessary to order new malleable fittings when changing rail sections

Derailers

Hayes Derails

Fig. 91
Model C

Fig. 92
Model E

Model C is for operation by pipe line or switch stand. It consists of only two pieces.

Model E is for operation by hand only. It consists of two pieces joined by a ¼" steel pin. It can be locked on the rail by applying a padlock direct to the lever as shown above.

Model H not illustrated here, is a new derail for operation by hand switch stand or pipe line. It consists of only two pieces and may be locked on or off the rail.

These models are made both in right hand and in left hand to operate to the right or to the left respectively. They are also made in double end to derail in either direction; they are then called Models CX, EX and HX. They may be used on any rail head up to 2" wide and for any service.

Derails for medium service and for use where the rail head does not exceed 2¼" in width are

Model G for operation by hand, switch stand or pipe line
Model A for operation by switch stand or pipe line
Model D for operation by hand only

Model F is a portable derail for use where it is desired to place a derail temporarily without spiking it to the ties.

Fig. 93
Derailing Surface of Double End Derails.

Size. The word "size" applied to a Hayes Derail, indicates the vertical distance from the top of the rail to the surface on which the derail is secured. Size 4 is best for use on rail from 3 to 4 inches high, size 5 is best for use on rail from 4 to 5 inches high, and size 6 is best for use on rail more than 5 inches high. All of these may be used on higher rails but none on lower rails than the lowest figures given.

In ordering Hayes Derail specify model, size and right or left hand. (Omit the right or left in ordering double end derails.

List of Hayes Derails

Model A	Made in sizes 4 and 5, in right and in left
Model C	Made in sizes 5 and 6, in right and in left
Model CX	Made in sizes 5 and 6, combined right and left
Model G	Made in size 5, in right and in left
Model H	Made in sizes 5 and 6, in right and in left
Model HX	Made in sizes 5 and 6, combined right and left.
Model D	Made in sizes 4 and 6, in right and in left
Model E	Made in sizes 4, 5 and 6, in right and in left.
Model EX	Made in sizes 4, 5 and 6, combined right and left.
Model F	Made in sizes 4 and 5, in right and in left

An operating stand is made which can be used to throw any of the models which are for operation by switch stand a target stand is made which can be used with any Hayes Derail except Model F to indicate whether the derail is open or closed.

The Hayes Derail is carefully designed and thoroughly well made. It has no small or loose parts. It is simple track material and is easy to install and requires little attention for maintenance. More than 100,000 are now in track. It is used on nearly every railroad in North America. The manufacturers make it their business to help the user get good results from every Hayes Derail he has all the time it is in track.

Bolts and Spikes

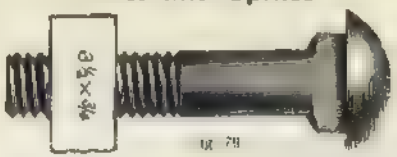


Fig. 79

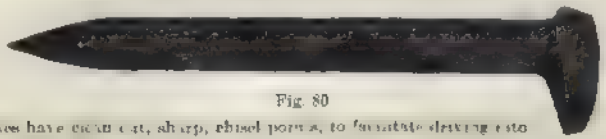
200-Pound Kegs

Standard Sizes, Weights, Dimensions, Extras

Diameter Thread	Length Under Head	Size of Rail, Weight per Yard	Extras Over Base, 100 Lbs. Square	Hexagon	Number 200 lb. Keg Square Nut	Hexagon Nut
½ x 1½		8-10	$3 15	$3 70	1800	1830
½ x 1¾		12-14-16	1 55	2 10	1012	1068
⅝ x 2		20	1 35	1 90	984	1008
⅝ x 2¼		25	1 20	1 75	915	953
⅝ x 2½		30-35	60	.85	506	537
⅝ x 3		30-40	40	.55	402	484
¾ x 3		40-45	30	50	278	294
¾ x 3½		50	.20	40	269	285
¾ x 3½		55-60	Base	30	259	273
¾ x 3¾		60-65	Base	30	256	268
¾ x 3¾		70-75	Base	30	256	263
¾ x 4		70-75	Base	30	242	254
⅞ x 4		75	Base	.30	170	178
⅞ x 4¼		80-85	Base	30	164	171
1 x 4¼		90	Base	30	120	126
1 x 4¾		90-100-110	Base		114	121

Base square ¾ inch diameter and larger, 3 cents heavier per 100 pounds. Bolts with square nuts. Unless otherwise specified we supply U. S. Standard Cut Steel rolled threads. Other sizes than listed supplied promptly. Bolts with Harvey ratchet grip threads with Hoard recessed nuts quoted on request. Send samples of special bolts.

Standard Steel Railroad Spikes



200-Pound Kegs

Fig. 80

These spikes have clean cut, sharp, chisel points, to facilitate driving into hard timbers. Spikes drive easily and hold well after driving. Heads will not fly off.

Dimensions Inches	Length Inches	Extras Over Standard Base Per 100 Pounds	Size of Rail	Number Spikes in 200-lb. Keg	Number of Spike Bars Required for One Mile of Single Track: Splice Bars, Pairs	Bolts	Spikes
⅜ x 2½	2½	$0 95	8-10	2500	3-4	1450	10500
½ x 2½	2½	65	12-14	1530	for 8 to 45-lb. Rail	for 8 to 45-lb. Rail	for 8 to 45-lb Rail
½ x 3	3	40	12-14	1340			
⅝ x 3½	3½	40	16	1170			
⅝ x 4	4	25	20-30	684	326	1304	11520
¾ x 4½	4½	15	30	620	for 50 to 90-lb Rail	for 50 to 90-lb Rail	for 50 to 90-lb Rail
¾ x 4	4	15	25-30	600			
⅞ x 4½	4½	35	30	595			
⅞ x 5	5	15	40	490	326	1958	11520
⅞ x 5	5	Base	45-75	340	for 70 to 100-lb Rail	for 70 to 100-lb Rail	for 70 to 100-lb Rail
⅞ x 5½	5½	Base	45-100	340			

Reversed point spikes can be furnished from mill at 25 cents per 100 pounds. Lag screws can be furnished at slight extra charge. ½ x 4 inches, ⅝ x 2½ to 4 inches, ¾ x 3 to 4½ inches, ⅞ x 4 inches, 1 x 4 inches, ⅝ x 5½ inches, ¾ x 5½ to 6 inches.

Shimming Spikes ⅝ x 7 and 8 inches take base price. Screw spikes upon request.

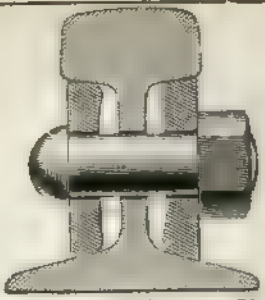
Boat Spikes

⅜ inch square 12 to 24 inches long	extra $0 5	⅜ inch square 4 to 12 inches long	extra $0 10
½ inch square 8 to 12 inches long	extra 15	½ inch square 4 to 8 inches long	extra 15
⅝ inch square, 6 to 12 inches long	extra 15	⅝ inch square 4 to 8 inches long	extra 75
¾ inch square, 6 to 12 inches long	extra 20	¾ inch square, 6 to 8 inches long	extra 1 00

⅜ and ½ inch shorter than 4 inches, ½ cent extra.

Tie Plugs

Tie Plugs	per M $



Standard Steel Rails

Fig. 77

Light Section Rails

Weight per yard, pounds	8	10	12	14	16	20	25	30	35	40	45
Height of rail, inches	1 1/8	1 1/4	2	2 1/16	2 1/8	2 5/16	2 3/4	3 1/16	3 1/16	3 1/2	3 5/8
Width of base, inches	1 3/8	1 1/4	2	2 1/16	2 3/8	2 3/8	2 3/4	3 1/2	3 1/2	3 1/2	3 5/8
Size of bolt, inches	3/4 x 1 1/2	3/4 x 1 1/2	3/4 x 1 3/4	1 x 1 3/4	1 x 1 3/4	1 x 2	1 x 2	5/8 x 2 1/2	5/8 x 2 1/2	3/4 x 2 1/2	3/4 x 3
Size of spike, inches	5/8 x 2 1/2	5/8 x 2 1/2	5/8 x 3	5/8 x 3	5/8 x 3 1/2	1/2 x 3 1/2	1/2 x 4	1/2 x 4	5/8 x 4 1/2	1/2 x 5	5/8 x 5 1/2
Length of splice bar, inches	16	16	16	16	16	16	16	16	16	20	20
Weight of splice bar per pair	2 00	2 60	3 44	3 44	4 36	4 8	5 70	10 45	12 10	15 10	18 75

Above furnished 30 feet long and 10 per cent not less than 20 feet long. Ties 24-inch centers—2640 ties per mile.

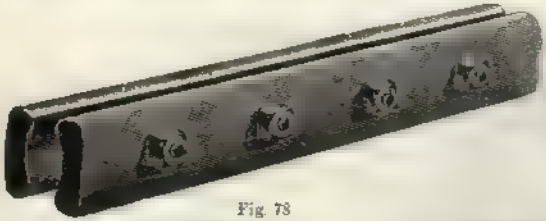
Standard Section Rails

Weight per yard, pounds	50	55	60 20	60 30	60 40	65	70 20	70 30	70 40	75	80 20
Height of rail, inches	3	4 1/16	4 1/2	4 5/16	4 1/4	4 1/16	4 3/4	4 23/32	4 5/8	4 5/16	5 1/16
Width of base, inches	3 7/16	4 1/16	4	4 1/16	4 1/4	4 1/16	4 1/4	4 1/16	4 5/8	4 5/16	4 5/16
Size of bolt, inches	1 x 4	1 x 4	1 x 3 5/8	1 x 3 5/8	1 x 4	1 x 3 5/8	1 x 3 5/8	1 x 4	1 x 4	7/8 x 4	7/8 x 4
Size of spike, inches	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2
Length of splice bar, inches	24	24	24	24	24	24	34	34	34	34	34
Weight of splices per pair	25 1/2	29	41	38	32 1/2	36	64	65	55	58	74

Standard Section Rails

Weight per yard, pounds	80 30	80 40	85	90 20	90 30	90 40	100 20	100 30	100 40	110	120
Height of rail, inches	4 5/16	5	5 1/16	5 5/16	5 7/16	5 1/16	6	5 31/64	5 3/4	6	6 1/4
Width of base, inches	4 5/16	5	5 1/16	5 1/16	4 49/64	5 1/16	5 1/2	5 9/16	5 3/4	5 1/2	5 3/4
Size of bolt, inches	1 x 4 1/2	1 x 4 1/2	1 x 4 1/2	1 x 4 1/2	1 x 4 1/2	1 x 4 1/2	1 x 5 1/2	1 x 4 5/8	1 x 4 5/8	1 x 4 1/2	1 x 4 1/2
Size of spike, inches	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2	5/8 x 5 1/2
Length splice bar, inches	34	34	34	34	34	34	34	34	34	34	34
Weight of splices, per pair	69	68	88	91	78	73	104	102	80	98	107

Standard Section Rails for tracks of 60 per cent of heavy and 40 per cent not less than 24 feet long varying by full feet. Ties 22 inch centers—2880 ties per mile. 4 bolts to joint, 6 to 8 pound rail, 6 bolts for larger



Standard Drilling for Rails and Standard Punching and Notching for Splice Bars

Fig. 78

Rail Drilling

Rail weight per yard, Pounds	Size of holes, Inches	A Ins.	B Ins.	C Ins.	D Ins.
8 to 10	1/2	2	4		1/8
12 to 25	5/8	2	4		1/8
30 to 35	5/8	2	4		1/8
40 to 45	7/8	2 1/2	5		1/4
50 to 67	7/8	2 1/2	5		5/16
70 to 72	1	2 1/2	5	6	5/16
75 to 85	1 1/8	2 1/2	5	6	5/16
90 and heavier	1 1/4	2 1/2	5	6	3/8

Splice Bar Punching and Notching

Rail weight per yard, Pounds	Length Inches	G Ins	B Ins	C Ins	E Ins	F Ins	W Ins
8 to 10	16 1/8	4 1/8	4				
12 to 25	16 1/8	4 1/8	4				
30 to 35	16	4 1/8	4				
40 to 45	20	5	5		3 1/8	1 3/8	1/4
50 to 67	24	5 1/8	5		6 1/2	2 1/2	5/16
70 to 72	34	5 1/8	5	6	7 1/2	5 1/2	5/16
75 to 85	34	5 1/8	5	6	7 1/2	5 1/2	5/16
90 and heavier	34	5 1/8	5	6	7 1/2	5 1/2	5/16

Steel Coal and Ore Cars

Fig. 257

Standard steel side dump cars dumping to both sides, capacity from 9 to 72 cubic feet; gauges of 18 inches to 4 feet 8½ inches

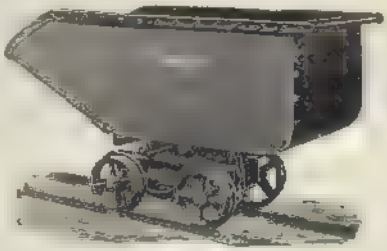


Fig. 258

Coal and ore cars, dumping at end, made entirely of steel; capacities from 10 to 27 cubic feet, gauges 18 to 24 inches

Mine Cars

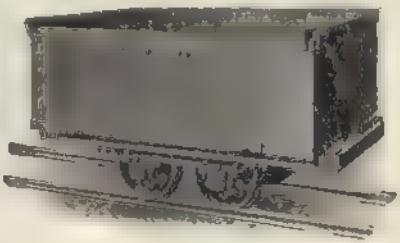


Fig. 259

Of all capacities and types. Ask for special catalogue of mine cars. Cars built to order.

Prices on Application

Inspection Cars

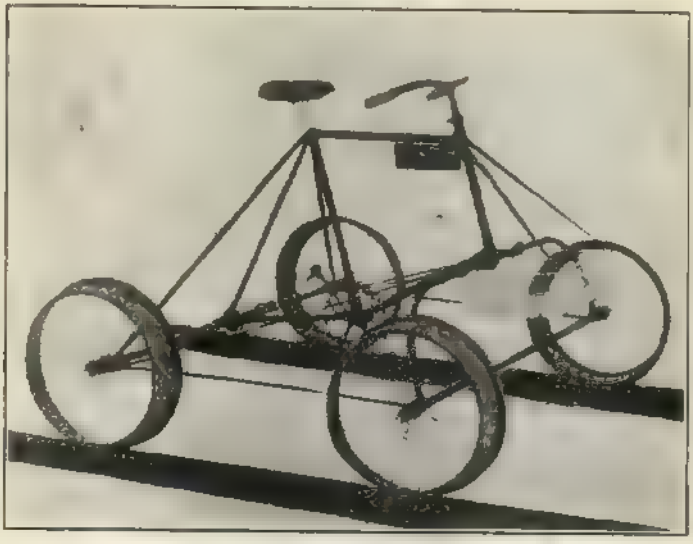


Fig. 260

Single seated car, f. o. b. factory — each $60 00

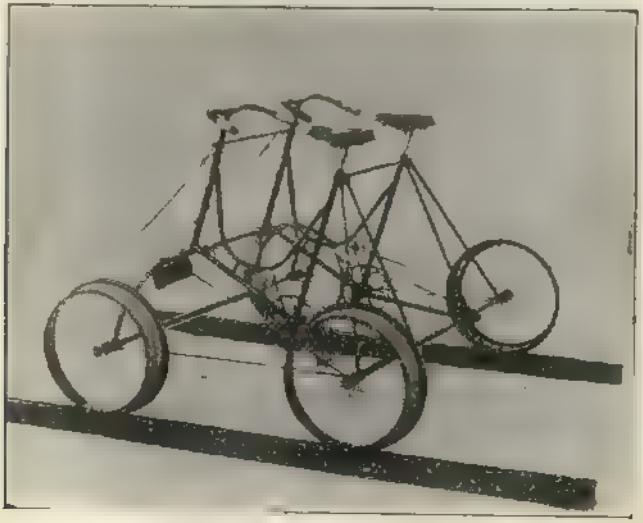


Fig. 261

Price, f. o. b. factory — each $80 00
Extra seats for attaching to front — each 20 00

Steel Copper-Plated Oilers

Fig. 18

Fig. 19

Fig. 20

Copper-Plated

No.	Size	Diameter Inches	Nozzle Inches	Per Doz.	No.	Size	Diameter Inches	Nozzle Inches	Per Doz.
1A	¼-pint	2¾	2½	$4 50	14AA	½-pint	3¾	8	$5 40
1	¼-pint	3⅛	3	5 50	14B	½-pint	3¾	9	6 [illegible]
13A	½-pint	3⅝	5	6 00	15	1-pint	4½	8	6 75
14	½-pint	3¾		6 50	15A	1-pint	4¾	5	9 75
14A	½-pint	3¾		7 50	16	pint	4¾		10 50

Brass Oilers

120	3-oz.	2⅝	3	$ 6 50	140AA	½-pint	3¾	5	11 [illegible]
130	5-oz.	3⅛	2	8 00	140B	½-pint	3¾	9	11 [illegible]
130A	5-oz.	3⅝	5	8 75	160	1-pint	4¼	[illegible]	[illegible]
140	5-oz.	3¾	9	9 20	150A	1-pint	4⅝	5	13 [illegible]
140A	½-pint	3¾	3	10 20	150	1 pint	4¾	3	14 [illegible]

Malleable Iron Oilers

Prices with New Patent Improved Bottom

Fig. 21

No. 1 [illegible] per dozen $3 60
No. 2 [illegible] per dozen 4 00
No. 3 [illegible] per dozen 4 40

Copper-Plated Steel Engineers' Sets

Fig. 22

Copper-Plated Sets

Including Tray

No. 30	5 pieces, copper-plated	$5 00
No. 40	6 pieces, copper-plated	7 00

Brass Sets

Including Tray

No. 30.	5 pieces, brass	$ 8 00
No. 40.	6 pieces, brass	9 00
No. 50	5 pieces, nickel-plated	8 00
No. 60	6 pieces, nickel-plated	11 00

Brass Oiler Trays

Polished and Lacquered

No. 12	per dozen	$20 00
No. 14	per dozen	24 00
No. 16	per dozen	32 00

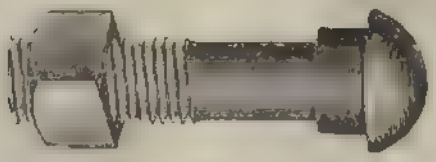
Steel Pump Oilers

No.	Size	Diameter Inches	Nozzle Inches	Per Dozen
1000	1 -pint	3¾	9	$ 30
2000	1½-pint	2⅝	12	4 00
3000	1 -quart	4¼	15	50 00
4000	2 -quart	5	18	60 00

Fig. 23

†TRACK BOLTS

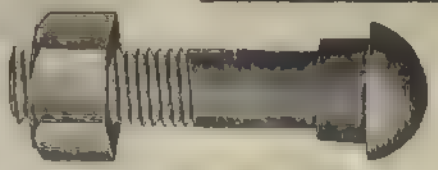
All Prices on This Page are Manufacturers' Lists Prices Quoted upon Request



WITH SQUARE NUT

With U. S. Standard Nuts

List Adopted April 1, 1905
In Effect May 1, 1910



WITH HEXAGON NUT

STANDARD LIST OF ADVANCES PER 100 LBS. OVER BASE PRICE

WITH SQUARE NUT

Per 100 lbs.

⅜ inch and Larger by 3½ inch and Longer; Base Prices on Application

Diam. Inch	Length, Inches								
	3½	3¼	3	2¾	2½	2¼	2	1¾	1½
3-4	Base	$0 05	$0 15						
5-8		.30	40	$0 50	$0 60				
9-16			75	90	1 05	$1 20	$1 35		
1-2			75	90	1 05	1 20	1 35		
7-16					1 05	1 75	1 95	$2 15	
3-8						2 40	2 65	2 90	$3.15

WITH HEXAGON NUT

Per 100 lbs.

All Sizes with Hexagon Nuts, Advance Over Base Prices on Application

Diam. Inch	Length, Inches								
	3½	3¼	3	2¾	2½	2¼	2	1¾	1½
3-4	$0 15	$0 25	$0 35						
5-8		55	65	$0 75	$0 85				
9-16			1 10	1 25	1 40	$1 55	$1 70		
1-2			1.10	1.25	1 40	1 55	1 70		
7-16					2 00	2 20	2 40	$2.60	
3-8						2.95	3 20	3.45	$3.70

200 lbs. in a Keg

TABLE OF SIZES, NUMBER IN KEG OF 200 LBS., AND SIZE RAIL INTENDED FOR

Diameter, Inches	1	⅞	¾	¾	¾	¾	¾	¾	¾	⅝	½	½	⅜
Length, Inches	5	4½	4	4½	4¼	4	3¾	3½	3¼	3	2¾	2½	2	1¾	1½
Hexagon Nut	120	165	174	225	227	230	241	250	260	275					
Square Nut											460	608	879	925	1777
For Iron, Wt. per Yard, Lbs.										40, 45	30, 35	25	20	12, 16	10

†RAILROAD OR TRACK SPIKES

Size Square	Length, Inches	Per 100 lbs.
9-16 inch	—4½, 5, 5½	Base Prices on Application
1-2 inch	—4½, 4, 4½, 5	Advance .10
7-16 inch	—4½, 4, 4½	Advance .20
3-8 inch	—3, 3½, 4, 4½	Advance .30
3-8 inch	—2½	Advance .40
5-16 inch	—2½, 3, 3½	Advance .60
5-16 inch	—2	Advance .80

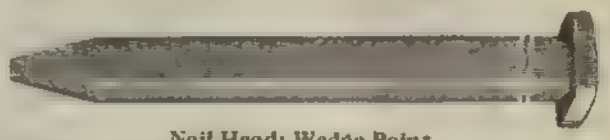
Reverse Point Spikes (Smallest Size ⅜x3½ inches), Extra 25 cents per 100 lbs. Over Above Prices.

200 lbs in a Keg

RAILROAD SPIKE SPECIFICATIONS

Size Measure Under Head Inches	Average No. per Keg of 200 Lbs.	Pounds to the Mile for Ties Two Feet Between Centers, Four Spikes per Tie	Rail Used Weight per Yd
9-16x5½	360	5870 lbs.—29½ Kegs	45 to 70 lbs.
5	400	5280 lbs.—26⅜ Kegs	
½x5	450	4400 lbs.—22 Kegs	35 to 40 lbs.
4½	530	3685 lbs.—18½ Kegs	
4	600	3520 lbs.—17⅝ Kegs	30 to 35 lbs.
3½	680	3168 lbs.—15⅜ Kegs	
7-16x4½	680	3111 lbs.—15 3-5 Kegs	28 to 30 lbs.
4	840	2816 lbs.—14⅛ Kegs	
3½	900	2350 lbs.—11¾ Kegs	20 to 28 lbs.
⅜x4	1000	2112 lbs.—10 3-5 Kegs	16 to 20 lbs.
3½	1180	1790 lbs.— 9 Kegs	
3	1370	1541 lbs.— 7¾ Kegs	
2½	1600	1320 lbs.—6 3-5 Kegs	12 to 16 lbs.
2	2160	977 lbs.—4⅞ Kegs	8 to 10 lbs.

†BOAT SPIKES



Nail Head; Wedge Point

Size Square	Length, Inches	Per 100 lbs
3-4 inch	—12, 14, 16, 18, 20, 22, 24	Prices on Application
5-8 inch	—8, 10, 12, 14, 16	Prices on Application
1-2 inch	—6, 8, 10, 12, 14, 16	Prices on Application
7-16 inch	—6, 8, 10, 12	Prices on Application
3-8 inch	—4, 5, 6, 8, 10, 12	Prices on Application
5-16 inch	—4, 5, 6, 8	Prices on Application
1-4 inch	—4, 5, 6, 8	Prices on Application
1-4 inch	—3, 3½	Prices on Application

200 lbs. in a Keg

AVERAGE NUMBER IN KEG OF 200 LBS. OF PRINCIPAL SIZES

Size Square	6	7	8	9	10	12	14	16
¼ inch	433	400	337	305	297	241	216	182
⅝ inch	291	251	220	196	187	155	130	122
¾ inch	200	173	152	135	122	102	95	80

TONS OF RAIL REQUIRED PER MILE

Weight per Yard	Tons of 2,240 lbs. per Mile	Weight per Yard	Tons of 2,240 lbs. per Mile
16 lbs	25 tons, 320 lbs.	40 lbs	63 tons, 1,120 lbs.
20 lbs	31 tons, 960 lbs.	45 lbs	70 tons, 1600 lbs.
25 lbs	39 tons, 640 lbs.	50 lbs	88 tons
28 lbs.	44 tons	60 lbs.	94 tons, 640 lbs.
30 lbs	47 tons, 320 lbs.	65 lbs	102 tons, 320 lbs.
35 lbs	55 tons	70 lbs	110 tons

To Find the Number of Gross Tons (2,240 lbs.) of Rail in a Mile, Divide the Weight per Yard of Rail by Four and Multiply by 11.

NUMBER OF RAILS, FISH PLATES AND BOLTS PER MILE OF TRACK

Two Fish Plates and Four Bolts to Each Joint

Length of Rail	Rails	Fish Plates	Bolts
20 feet	528	1056	2112
24 feet	440	880	1760
26 feet	406	812	1624
28 feet	378	756	1512
30 feet	352	704	1408

NUMBER CROSS TIES PER MILE OF TRACK

Inches Apart, Center to Center	18	20	22	22.5	24	25.7	27	27.7	30	33	36
Number of Ties	3520	3168	2889	2805	2640	2464	2317	2288	2112	1920	1760

Items Marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

All Light Face Prices on This Page are Manufacturers' Lists Prices Quoted Upon Request

TURN BUCKLES

Pressed Wrought Iron, with Right and Left U. S. Standard Threads and Stub Ends Made of Best Refined Iron; Free from Seams, Flaws and Other Defects; Uniform in Quality and Strength.

Diameter Stub Ends	Outside Length of Buckle	Length of Stub Ends	Entire Length Stubs	Weight Each	Each with Stub Ends		Diameter Stub Ends	Outside Length of Buckle	Length of Stub Ends	Entire Length Stubs	Weight Each	Each with Stub Ends	
5/16 inch	7 1/8 in.	8 in	22 in	1 lbs	$0 60	40	1 1/2 inch	10 1/2 in.	10 1/2 in	27 in.	18 lbs.		1.50
7-16 inch	7 1/8 in.	8 in	22 in	1 1/2 lbs	.64	42	+ 1 5/8 inch	10 1/2 in.	11 in.	28 in.	20 lbs.		1.75
1/2 inch	7 1/2 in	8 in	22 in	2 lbs.	.68	.45	+ 1 3/4 inch	11 1/2 in.	11 in.	28 in.	23 lbs.		2.00
5/8 inch	7 7/8 in	8 in	22 in.	2 1/2 lbs	.88	.50	+ 1 7/8 inch	11 5/8 in.	11 1/2 in	29 in.	28 lbs.		2.25
3/4 inch	8 1/4 in	8 1/2 in.	23 in.	4 lbs.	1.10	.63	+ 2 inches	12 in.	11 1/2 in.	29 in.	32 lbs.	Prices on	2.65
7/8 inch	8 5/8 in	9 in	24 in.	5 1/2 lbs.	1.30	.75	+ 2 1/4 inches	12 1/2 in	11 1/2 in	29 in	37 lbs.	Application	3.10
1 inch	9 in	9 1/2 in	25 in	7 lbs	1.50	.85	+ 2 1/2 inches	12 3/4 in.	12 in.	30 in.	42 lbs.		3.50
1 1/8 inch	9 3/4 in	9 1/2 in	25 in	8 1/2 lbs	1.90	1.00	+ 2 3/4 inches	13 1/4 in.	12 1/2 in.	31 in.	53 lbs.		4.00
1 1/4 inch	9 3/4 in	10 in	26 in	12 lbs	2.40	1.25	+ 2 1/2 inches	13 1/2 in.	13 in.	32 in.	58 lbs.		4.50
1 3/8 inch	10 1/8 in.	10 1/2 in.	27 in	14 lbs	2.80	1.38							

Above List Prices are for Standard Turn Buckles, 6 inches Clear Between Heads. Longer Turn Buckles Made to Order at Special Prices

MACHINE BOLTS

(For List Prices See Page 1142)

APPROXIMATE WEIGHT IN POUNDS PER 100 BOLTS

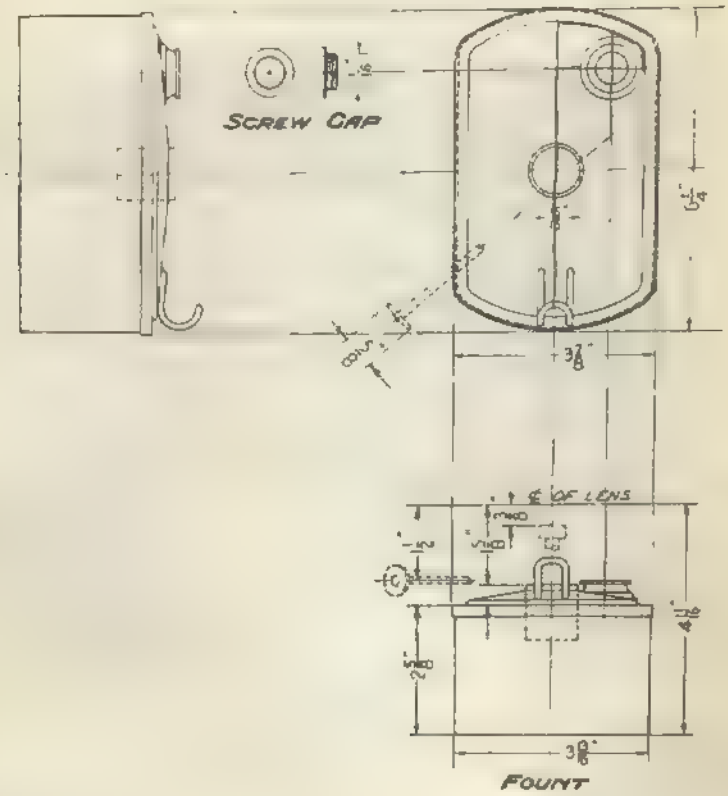
Length Inches	Diameter, Inches											
	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4
1 1/2	3 7	6 0	9 0	15 2	19 6	27 5	34 3	54 3			
2	4.2	7.0	10.5	17.2	22 2	31.0	38.4	60.0	90 8		
2 1/2	4 8	8 0	12 0	19 2	24 8	34 5	42 5	65 7	99 1	148 2	209 0	277 0
3	5 5	9 0	13.5	21.2	27 5	38.0	46 7	71.4	107.4	159.0	222.5	293.5
3 1/2	6 1	10 0	15 0	23 2	30 1	41 5	50 8	77 1	115 7	169 8	238 0	310 0
4	6 8	11.0	16.5	25 2	32 8	45.0	55 0	82.8	124.0	180.6	249.5	326 5
4 1/2	7.4	12 0	18.0	27.2	35 4	48 5	59 1	88 9	132.3	191.4	263 0	343 0
5	8 1	13 0	19 5	29 2	38 1	52 0	63 3	95 0	140 6	202.2	276 5	359 5
5 1/2	8 7	14 0	21 0	31 2	40 7	55 5	67 4	101 1	148 9	213.0	290 0	378 0
6	9 4	15 0	22 5	33 2	43 4	59 0	71 6	107 2	157 2	223 8	303 5	392 5
6 1/2	10 1	16 0	24 1	35 2	46 0	62 5	75 7	113 3	165 5	234 6	317 0	408 0
7	10.8	17.0	25.7	37 2	48.7	66.0	79 9	119.4	173 8	245.4	330.5	425 5
7 1/2	11 5	18 0	27 3	39 2	51 3	69 5	84 0	125 5	182 1	256 2	344 0	442 0
8	12 2	19.0	28 9	41 2	54 0	73 0	88 2	131 6	190 4	267 0	357 5	458 5
9			32 1	45 2	59 5	80 0	96 5	143 8	207 0	288 6	385 5	493 0
10			35 3	49 2	65.0	87.0	104.8	156.0	223 6	310.2	413.5	527.5
11			38 5	53 2	70 5	94 0	113 1	168 2	240 2	331 8	441.5	562 0
12			41.7	57 2	76.0	101 0	121.4	180.4	256 8	353.4	469.5	596.5
13					81.5	108.0	129 7	192.6	273 4	375.0	497.5	631.0
14					87.0	115.0	138 0	204.8	290 0	396.6	525.5	665 5
15					92.5	122.0	146 3	217.0	306 6	418.2	553.5	700 0
16					98.0	129 0	154 6	229.2	323 2	439.8	581.5	734 5
17					103.5	136 0	162.9	241.4	339 8	461.4	609.5	769.0
18					109.0	143 0	171.2	253.6	356 4	483 0	637.5	803.5
19					114.5	150 0	179.5	265.8	373.0	504 6	665.5	838.0
20					120.0	157 0	187.8	278.0	389 6	526.2	693.5	872.5
21								290.4	406 5	548 2	721.5	907.0
22								302 8	423 4	570.2	749.5	941.5
23								315.2	440.3	592.2	777.5	976.0
24								327 6	457 2	614 2	805 5	1010 5
25								340 0	474 1	636 2	833 5	1045 0
26								352.4	491.0	658 2	861.5	1079.5
27								364 8	507 9	680 2	889 5	1114.0
28								377 2	524 8	702 2	917 5	1148 5
29								389 6	541 7	724 2	945 5	1183 0
30								402 0	558 6	746 2	973 5	1217.5

CONTENTS OF FULL CASES OF MACHINE BOLTS

Length Inches	Diameter, Inch							Length Inches	Diameter, Inch							Length Inches	Diameter, Inch			
	1/4	5/16	3/8	7/16	1/2	5/8	3/4		1/4	5/16	3/8	7/16	1/2	5/8	3/4		3/8	1/2	5/8	3/4
1	6500	7600	5000	2700	2400	1200		4	3200	3200	2400	1400	1200	600	400	9 1/2	950	550	350	250
1 1/4	6400	6200	4200	2600	2400	1200	800	4 1/4	2800	2800	1500	2000	1400	600	500	10	900	600	350	250
1 1/2	5400	5400	3600	2400	1800	1000	750	4 1/2	3600	3000	2000	1600	1200	600	500	10 1/2	850	550	300	250
1 3/4	4500	4800	3200	2000	1700	900	750	5	2800	2600	2000	1300	1000	650	350	11	850	500	300	250
2	4000	4400	3000	2000	1600	900	700	5 1/2	2000	2500	2000	1300	900	500	300	11 1/2	800	500	300	220
2 1/4	3800	4200	2700	1700	1600	900	650	6	2000	2400	1700	1100	900	450	300	12	800	400	250	200
2 1/2	5400	3600	3300	1700	1600	850	650	6 1/2		1700	1400	1000	800	450	300	12 1/2	750	400	250	200
2 3/4	3600	4000	3100	1800	1600	850	600	7		2400	1400	1000	850	425	250	13	750	400	250	200
3	3200	4000	3100	1700	1600	850	700	7 1/2		1500	1400	700	750	400	250	13 1/2	700	400	200	200
3 1/4	3800	3700	2700	1600	1200	700	500	8			1200	700	700	400	250	14	650	400	200	200
3 1/2	3600	3700	2400	1400	1200	650	500	8 1/2			1500		700	450	300	14 1/2	600	200	200	100
3 3/4	2800	1600	2400	1400	1200	600	500	9			1000		600	400	300	15	600	200	200	100

Items Marked ✱ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Lebanon, Pa.

Railway Signal Association Lamp Fount



Specifications

1. Fount shall be 31 fluid ounce capacity, one fitted with a slip collar $\frac{1}{16}$ of an inch in diameter.

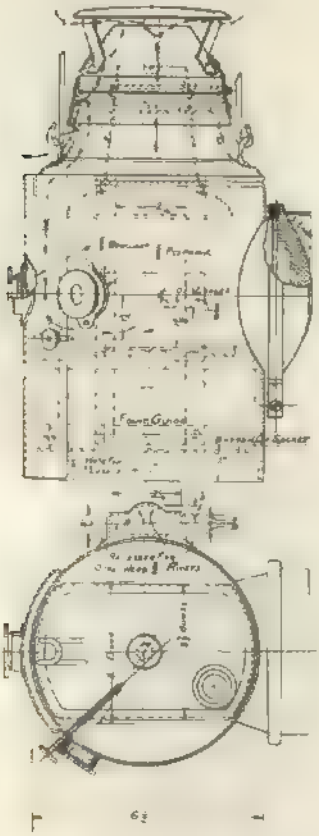
2. Fount shall be made of No. 22 drawn sheet steel, tinned and body pressed in one piece and with top soldered on.

3. Long-time burner shall be used.

Handlan Signal Lamps

No. 28 R. S. A. Semaphore Lamp

Wind Proof - Rain Proof



Railway Signal Association Specification

With or without prism glass reflector
No. 18 gauge steel.
31-Ounce font
5-Inch or 5⅝-inch white lens
Long-time burners.
Improved oil pot guide.
Improved burner shaft protection

See specifications on page 72.

18-Inch Engine Lathes

Series "AA"

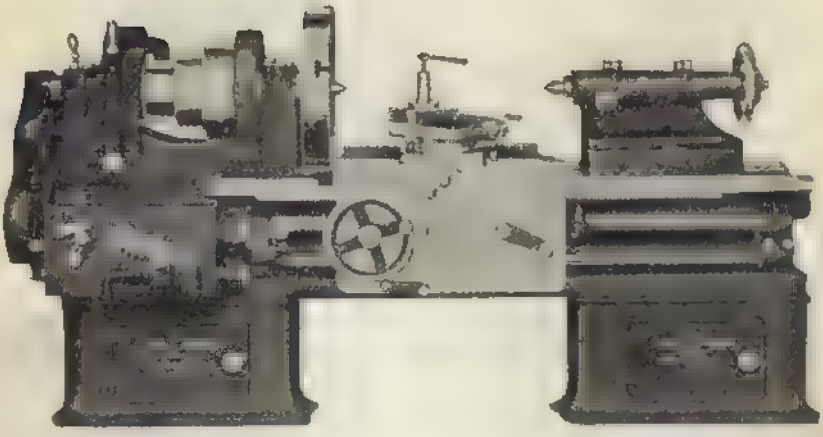


Fig 1557

With Quick Change Gear

Design of this lathe conforms strictly to the requirements of modern machine shop practice. It is rigid and simple in construction, sensitively accurate and easy to operate. It is especially designed and constructed for the use of modern high-speed steel where efficiency for accurate and rapid work is desired.

Bed is very heavy and of deep section and firmly braced its entire length with box girders, thus made to absorb the vibration of the heaviest cut

Hamilton 24 x 24-Inch Planer

Spur-Geared Only.

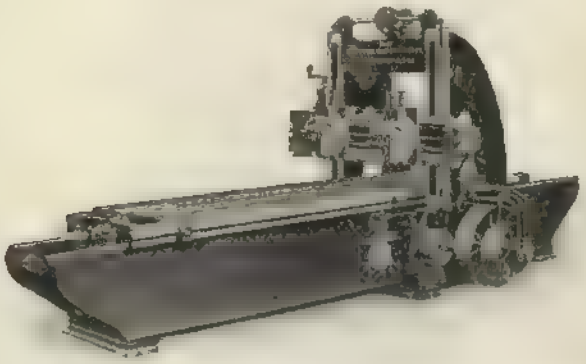


Fig. 1558

Planes in Width Inches	Planes in Height Inches	Planes in Length Feet	Weight Pounds	Planes in Width Inches	Planes in Height Inches	Planes in Length Feet	Weight Pounds
24	24	4	5000	24	24	9	7500
24	24	5	5500	24	24	10	8000
24	24	6	6000	24	24	12	9000
24	24	7	6500	24	24	14	10000
24	24	8	7000	24	24	..	.....

With parallel drive

Widened to 27 inches

Widened to 30 inches

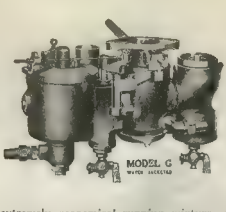
With additional head on cross rail

Countershaft tight and loose pulleys are each 14 inches diameter, 4½ inches face

Prices and full specifications furnished upon application

CARBURETORS.

RAYFIELD.



Rayfield Carburetors permit the use of an extremely economical running mixture and still have the very fast getaway for which the Rayfield is noted. Economical, efficient operation is assured the user of a Rayfield equipped car.

Price and Specifications of Complete Outfits.

When ordering carburetors from this list, it will be advisable to mention specification number of outfit wanted, as—one GL2P Carburetor for Buick D55 Specification No 900-74A

Numerals 900 prefixing specification indicate Type GP-GLP-LP-LLP and numerals 800 indicate Type M and MR.

Name of Car	Year	Model	Carb.	Outfit No.	List Price
Apperson	1917	6-48	G3P	900-26	$37.35
Auburn	1917-18	6-44	M3V	800-5B	31.75
	1917-18	6-39	M2V	800-27B	28.90
Bartholomew		Light 6-40	M2H	800-31A	28.90
Briscoe	1917	4-48	L2P	900-72B	33.60
Buick	1914-15-16	D-55, C-55, B-55	GL3P	900-74A	42.45
	1918	E & H 44-45-46-47-48-49-50	GL3P	900-78A	42.45
	1916-17	D-45, D-44	GL3P	900-78A	42.45
	1916	C-35-25	GL2P	900-80A	35.90
"4"	1914-15	B & C 36 & 37	GL2P	900-87A	43.85
	1917-18	D-34-35, E-35	GL2P	900-112	34.55
Case	1917	1917-6	M3V	800-30A	31.90
	1918	U, 6 cyl	M3V	800-18A	31.75
Chalmers	1914-15	6-24, 6-29	GL4P	900-90A	43.30
	1914	6-25, 6-26	GL3P	900-91A	37.55
	1916	6-32	GL2P	900-93	31.75
	1917	6-30	M2V	800-43B	31.50
	1916	6-30, 35A	M2V	800-57A	31.90
Chandler	1915 to 19	A11	G3P	900-3D	37.50
Chevrolet	1916-17	4-90	LL2P	900-75A	31.75
	1918-19	4-90	GL2P		35.90
Cole	1916	8-50	LL3P	900-104A	33.35
Cont. Motor	6N & 7N		M3V	800-41A	31.90
		7N	M2V	800-44A	28.90
Dodge	1915-16-17	A-1	MR3H	800-64	32.55
	1918-19	"	MR3H	800-64	32.55
Dort	1918-17	0	L2P	900-81A	32.90
Elgin	1916-17	6	M2V	800-21A	28.90
EMF	1909 to 12	30	B2P	900-49	32.30
Flanders	1912-13	20	LL2P	900-92A	33.10
Ford	All	All	F8	800-63	21.00
Haynes	1917-18	40, 12 cyl	G3P	900-2C	37.55
	1916-17-18	24-35, 8 cyl	M3S	800-20B	31.75
Hudson	1914-15-16	6-54	G4P	900-55	41.10
	1916-17-18	Super Six	GL4P	900-73B	40.95
Elgin	1916	6-40	GL2P	900-88B	42.85
	1913 only	6-54	G4P	900-96A	41.10
	1914-15-16	6-40 Blk Motor	M3V	800-58A	31.75
Hupmobile	1918	R	GL2P	900-123	32.25
	1915-16-17	All	M3V	800-36A	35.35
Kline	1916-17	7W	M2V	800-24A	28.90
Lexington	1916-17-18	6-0-18	M2V	800-59C	28.90
Liberty	1917-18	10B	M2V	800-6A	28.90
Locomobile	1914 to 17	RC38	GL4P	900-108	50.55
	1914-15-16-17-18-19	6-48	G5P	900-109	57.55
Madison	1916-17	8-40	M2H	800-23A	28.90
Marmon	1917	34	G4P	900-106	43.30
Maxwell (Magneto)	1915-16-17-18-19	25	L2P	900-80	33.50
Maxwell (Battery)	1915-16-17-18-19	25	L2P	900-116	33.50
Metzlell	1917-18	D40-C42	MR3V	800-20B	$31.75
Moline	1916-17-18	MK-40, G4	MR3V	800-45A	32.70
Moon	1916-17-18-19	6-40	M3V	800-3B	31.75
	1916-17-18	6-39	M2V	800-23A	28.90
Nash "6"	1918-19	681-2-3-4	GL3P	900-124	38.20
	1917	6	M3V	800-2	31.75
National	1916-17-18-19	Series "AK"-12	GL4P	900-23A	47.25
	1917-18-19	AF6	M3V	800-17C	31.75
Oakland	1916-17-18-19	32-32B-34	GL2P	900-79B	35.90
Oldsmobile	1915-16	43-42, 4 cyl	GL2P	900-54	37.10
	1917-18-19	6-37	G2P	900-82A	38.45
Overland	1915	80-81	LL2P	900-44A	35.55
	1916-17	83-83B	LL2P	900-93A	35.55
	1913-14	66-79	LL2P	900-55A	35.80
	1917-18-19	85-4	M2V	800-49A	32.40
	1916-17	75-75B	MR2V		33.80
	1915-16-17-18-19	90	MR2V		30.95
Paige	1913-14-15	4-36	G2P	900-68A	34.90
	1916-17	Stratford	M3V	800-13A	31.75
	1917-18	Fairfield	M3V	800-13A	31.75
	1917-18	KG-Light Six	M2V	800-28B	28.90
	1918	M-18	M3S	800-47A	31.75
Pan American	1917-18-19	All	M2V	800-44B	28.90
Reo	1915-16-17-18	M, 6 cyl	GL3P	900-13A	40.40
	1910-14	5th	GL2P	900-51A	35.70
	1915-16-17-18-19	R & S	G2P	900-58B	33.10
Saxon	1915-16	"S" & S2	G2P	900-117	34.15
	1917-18-19	S4	M2V	800-38A	30.55
	1914-15-16-17	All, 4 cyl	M2H	800-42	30.55
Studebaker	1913	6 cyl	G3P	900-53A	42.75
	1914	4 cyl	G2P	900-83A	41.70
	1916-17	6 cyl Series 16-17	GL3P	900-84C	43.50
	1916-17	4 cyl, Ser. 16-17-18	GL2P	900-94A	37.40
	1914-15	6 & 6C-6 cyl	G3P	900-95A	43.15
	1918	Series 18, 6 cyl	GL3P		45.10
	1919	Series 19, 4 cyl	GL2P		36.55
	1919	Series 19, 6 cyl	G4P		47.15
Velie	1917-18	25-6	M2V	800-39C	28.90
	1916-17-18-19	27-6	M3V	800-46C	31.75
	1916-18	22	M2V	800-54B	28.90
	1918-19	25-38	M2V	800-39	31.70
White	1917-18	16 Valve	G4P	900-85A	50.30
Willys-Knight	1916-17-18-19	84-88	MR3V	800-34A	37.60
Willys	1917-18-19	89-6	M3V		31.95
Winton	1916-17	22A	G4E	900-24B	43.80
	1915-16-17-18-19	21-22	G5P	900-25B	52.00
	1914	20	G4P	900-98	47.65
	1911-13	6	G4P	900-99	47.65
	1918	22A & 33	GL3E	900-120	37.75

This button is so constructed as to positively insure contact at all times no matter what angle or position it is operated from. The button can be placed in the most accessible location for convenient operation, the slightest pressure closing the contact even though you do not press dead center.

Each

No. 2—Push Button **$0.24**

Floor or steering wheel switch. Made entirely of metal. Especially adapted for use where intermittent service is required as in operating motor driven horns, gauge lights, electric bells, etc.

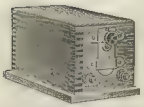
Each

No. 1—Push Buttons **$0.48**

COILS.

JEFFERSON.

BOX TYPE.



This trouble-proof coil is designed and guaranteed to give service under the most adverse operating conditions. It is very economical in battery consumption and produces at all times a hot, intensive spark.

The construction of the vibrator is such that the coil cannot be adjusted to stop the engine from working, nor can it be adjusted to consume an excessive amount of battery current, thereby prolonging the life of the dry cells. Coils are assembled in dove-tailed highly polished seasoned oak cases and are sealed in a water-proof compound.

Each

No. 1—Single cylinder, box coil **$5.50**
No. 2—Double cylinder, box coil **11.00**

COVERED DASH.

This covered coil is especially desirable for automobile, marine or stationary gas engines where coil is exposed to the weather, as the vibrator is covered, and, therefore protected from water, dampness and dirt. Coil is equipped with our trouble-proof vibrator; assembled in dove-tailed box which is oak finished. Without switch.

Each

No. DC1—Single cylinder, dash coil **$7.30**
No. DC2—Double cylinder, dash coil **14.60**

STEEL CASE, MAKE AND BREAK.

These coils are designed to answer the most rigid requirements of stationary and marine make and break gas engines. A hot, flaming arc is produced under compression with a minimum current consumption. Coils are assembled in a substantial black enameled steel case, and immersed in a special insulating compound which renders them impervious to moisture.

Each

No. 15—Size, 2¼x2¼x6 inches; weight, 3 lbs **$2.00**
No. 30—Size, 3x3½x4 inches; light, 5 lbs. .. **4.00**

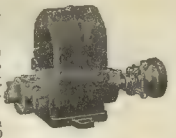
MAGNETOS.

WIZARD.

FOR STATIONARY ENGINES ONLY.

TYPE B.

CONTACT OR MAKE AND BREAK SPARK FOR ONE-CYLINDER ENGINE.



Suitable for starting engines up to three or four horse-power, without the aid of batteries. When batteries are used for starting it is satisfactory for much larger engines.

Each

No. F689 ..... **$24.80**

TYPE A.

CONTACT OR MAKE AND BREAK SPARK FOR MULTIPLE CYLINDER OR LARGER ENGINES.

The magnetic field in this type being twice that of type B, it will start a much larger engine without the aid of batteries, and can be run at a much lower speed, which means that the brushes, etc., will last much longer

Each

No. F691 ..... **$28.00**

TYPE BC.

CONTACT OR MAKE AND BREAK SPARK FOR ONE-CYLINDER ENGINE.

Exactly the same as type B, except that the coil is attached to the magneto. This makes an extremely simple and efficient arrangement, as there are only two wires to connect direct to your engine.

Each

No. F690 ..... **$28.00**

TYPE AC.

CONTACT OR MAKE AND BREAK SPARK FOR MULTIPLE CYLINDER OR LARGER ENGINES.

Same as Type A, except that the spark coil being attached makes an extremely simple and efficient arrangement, as there are only two wires to connect to your engine.

Each

No. F692 ..... **$32.00**

MAGNETO FILES.

A well made magneto file designed especially for cleaning magneto, coil and spark plug points.

Per Dozen

No. MF—Magneto File **$2.00**

Weight per dozen, ½ lb.

CATCHERS' MASKS.

REACH.

Reach Men's Spitter Model. Extra strong steel wire. Specially reinforced to assures trength. Sides extended to protect ears. Special pads which lace to frame. Adjustable head straps

Each

No. SL—Weight each, 2 lbs. **$11.56**

Reach Men's Professional Model. Open vision construction. Made of extra steel wire with dull black enamel finish. Self conforming laced on pads and adjustable head straps.

Each

No. 400—Weight each, 2 lbs **$10.00**

Reach Association Mask. Made of heavy steel wire, gun metal enameled to prevent reflection of light, strongly put together, well finished, warranted first-class and reliable in every particular. Special "Patented" hair filled leather and canvas side and head pads and special elastic head band. This mask is also fitted with a special green transparent sunshade.

Each

No. 30S—Weight each, 2 lbs. **$7.00**

Reach Amateur Mask. Made full size of steel wire. Black enameled, well padded and strongly constructed. Special elastic head band. Fitted with green transparent sunshade.

Each

No. 50S—Weight each, 2 lbs **$5.00**

Reach Amateur Mask. Made in same size and general style as Association masks, of lighter bright steel wire, well padded and strongly constructed. Improved frame and padding.

Each

No. XX—Weight each, ¾ lb. . **$3.50**

Reach Amateur Men's Mask; made of heavy bright steel wire; well padded and finished in the best manner. Improved frame.

Each

No. 3M—Weight each, ¾ lb.. ..... **$2.80**

YOUTH'S SIZE.

Reach Youths' Masks. Heavy wire and well padded. Without head or chin piece.

Each

No. CM—Weight each, ½ lb... . . .. **$2.20**

BODY PROTECTORS.

The padded or Sullivan model body protectors have proven superior to the old style inflated rubber protectors. We sell the padded style only. They afford thorough protection, are light in weight, conform to the movements of the player and will outwear rubber protectors.

Each

No. SP—Catchers' khaki canvas; laced edge **$17.06**

No. S6—Catchers' khaki canvas; leather bound edge..... 12.10

No. S4—Catchers'; same as No. S6, but lighter material.. ... . 9.90

YOUTHS' SIZE.

No. 3P—Khaki canvas; padded with felt; youths' size..... **$4.40**

LEG GUARDS.

A necessary part of the catcher's equipment is the leg or shin guard. Moulded fibre knee caps, padded ribs, leather reinforced bottoms. Strong, light weight

Per Pair

No. CG—Professional style.....$10.50

BASE BALL UNIFORMS.

MADE TO ORDER.

We can supply whatever is wanted in this line at the lowest price consistent with quality.

Write for Special Catalogue.

UNIFORM BAGS.

REACH.

For Base Ball Players, Tennis Players and Athletes generally.

Permits the convenient packing of uniforms without wrinkling or soiling them; can be easily carried, is substantially made and has separate compartments for shoes, etc.

Each

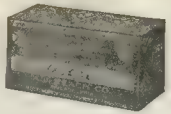
No. F—Best Canvas.....$12.00

Weight, each 4 lbs.

BASE BALL SUNDRIES.

MITT AND GLOVE DRESSING.

DOLCE.



An only dressing for Base Ball Players' Mitts and Gloves. Guaranteed to soften and keep in perfect condition any kind of leather used in a mitt or glove.

Per Dozen

Dolce—In tin boxes $1.68

Weight, per dozen 1¾ lbs

BAT BAGS.

Individual size; heavy canvas, olive color, capped at one end with leather to match. Holds 2 bats. Extra strong.

Each.

No. BB6.....$3.50

Weight, each 1¼ lbs.

Club size; extra heavy canvas, olive color, with leather trimmings to match. Holds 12 bats. Extra strong.

Each

No. BB1.....$10.00

Weight, each 3 lbs.

SHOES.

GOLDEN.

Per Pair.

No. 1255—Selected genuine kangaroo leather, with good leather soles, machine sewed, fitted with the latest heel and toe plates; all sizes..... $9.50

Weight, per pair 2 lbs.

PITCHERS' TOE PLATES.

Made of aluminum, hand finished

Per Dozen

No. 5TR—For right foot.....$5.50

No. 5TL—For left foot... . 5.50

Weight per dozen, 2 lbs.

One dozen in a box.

SHOE PLATES.

TOE.

Per Dozen Pairs

No. 1T—Hand forged steel.....$9.24

No. 2T—Fine quality steel..... 4.80

No. 6T—Fair quality steel..... 2.64

Weight, per dozen pairs 1¾ lbs.

HEEL.

Per Dozen Pairs

No. 1H—Hand forged steel.....$9.24

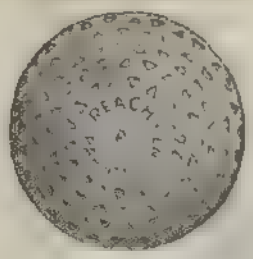
No. 2H—Fine quality steel..... 4.80

No. 6H -Fair quality steel..... 2.64

Weight, per dozen pairs 1¾ lbs.

One dozen in a box.

GOLF BALLS



REACH PARAMOUNT A

Red, Marked Poles; Sinks in Water; Recessed Alternately Triangle Marking and is Constructed to Meet the Demands on the Expert Golfer Both from the Point of View of Distance and Control. It is Small and Heavy and Extreme Carry Can be Obtained from it; Soft Core.

Per Dozen

No. RA—Weight 1.70 oz.; size 1.655 inches; Very Hard; Patented April 25th, 1911, and Dec. 9th, 1913.....$13.00

Half Dozen in a Box

REACH PARAMOUNT B

Square Marked Poles and Sinks in Water; Recessed Square Marking and is Constructed to Meet the Demands of the Expert Golfer from the Point of View of Distance and Control. It is Small and Heavy and Especially Durable; Slightly Softer than No. RA; Liquid Core; Rubber Painted Tough White Cover; Won't Crack.

Per Dozen

No. RB—Weight 1.67 oz.; size 1.655 inches; Medium Hard; Patented April 25th, 1911, and Dec. 9th, 1913.....$13 00

Half Dozen in a Box

GOODRICH WHIPPET

Per Dozen

No. WO—**Orange Spot Whippet**; Recessed Triangular Marking; Full Size; Heavy; Sinks in Water; Weight 1.66 oz.; Size 1.685 in.; Very Hard.....$11 00

Half Dozen in a Box

No. WG—**Green Spot Whippet**; Recessed triangular marking; small size; heavy; sinks in water. This is the big seller in the Whippet line; it is the distance ball; weight 1.[illegible] oz.; size 1.655 in.; very hard.....11 00

Half Dozen in a Box

No. WB—**Black Spot Whippet**; Recessed triangle marking; small size; medium weight; sinks in water; weight 1.50 oz.; size 1.655 in.; medium hard.....11 00

Half Dozen in a Box

No. WM—**Maroon Spot Whippet**; Recessed triangle marking; full size; light weight; floats in water; weight 1.45 oz.; size 1.710 in.; medium soft.....11.00

Half Dozen in a Box

No. WP—**Purple Spot Whippet**; Pebbled or bramble marking; medium size; medium weight; sinks in water; weight 1.53 oz.; size 1.685 in.; hard.....11 00

Half Dozen in a Box

GOLF BALLS

REACH WHIZ

[illegible]sinks in Water; Small Size; Bramble Marking; The Price of this [illegible] and the Fact it Bears the Name Reach is a Guarantee of its Quality [illegible] this Low Price; It Requires No Detailed Description of its Con[illegible]

Per Dozen

No. RW—Weight per Dozen 1½ lbs.....$6 00

Half Dozen in a Box

GOLF BALL MARKERS

SIMPLEX

This Ingenious Device Stamps the Owner's Two or Three Initials on any size Golf Ball—Distinctly and Durably—without the Slightest Injury to the Ball or its Flight.

Marking Your Ball is Easily and Quickly Done.

Nothing Complicated to Get Out of Order; Practically Indestructible. Made of Steel, Nickel Plated, Highly Polished. Will Last a Life-time. Gives Positive Identification—Eliminates Annoying Doubts and Disputes—Adds Immeasurably to the Game's Enjoyment.

An Investment that will be Quickly Repaid by the return of lost Balls.

Indispensable to the equipment of every Golfer. Appropriate for informal prizes, gifts, etc.

Per Dozen

No. SM—Weight per Dozen 6 lbs.....$33 00

One-half Dozen in a Box

On individual orders be sure and specify initials wanted

WOOD GOLF CLUBS

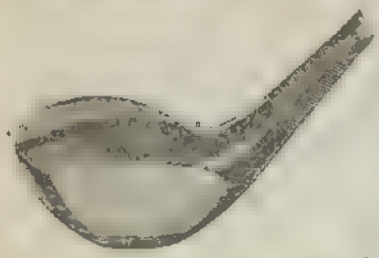
HILLERICH & BRADSBY

KORK GRIP

Hand made, perfect in balance and feel. The shafts are made of [illegible] hickory, thoroughly air seasoned, steely and quick acting, [illegible] own waterproof finish. Heads are made of finest grade air-dried [illegible] persimmon. The distinctive feature is our new patented Kork grip, made of genuine cork (not composition), the life of which far exceeds a leather grip, absorbs perspiration, [illegible] in the hands and insures accuracy and control.

Each

No. 1D—Driver—A standard club properly proportioned as to depth and length of striking face, also width of head. Same [illegible] No. 1B Brassie. [illegible] lengths of clubs 42 to [illegible] inches $3 50
4 40



Each

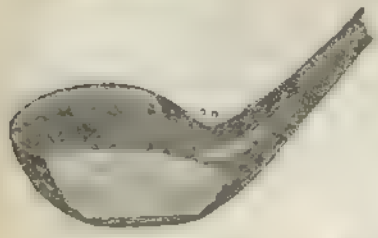
No. 1B Brassie—Medium [illegible] inches, length [illegible] 2¼ inches, width of [illegible] and 2½ inches, regulation size with well-[illegible], lengths of [illegible] $3 50
4 70

Each

No. 2D Driver—A special model for beginners that requires [illegible]. The [illegible] high [illegible] face is well lofted. [illegible] ns as No. 2B [illegible] except depth of [illegible] inches. Lengths [illegible] to 44 inches $3.25
4 40

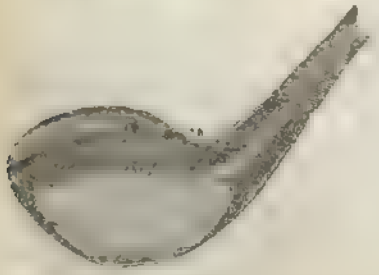
Each

No. 2B Brassie—Flat lie, [illegible] and well lofted head, [illegible], lengths of clubs 42½ to 44 inches. A good club for beginners $3 50
4 70



Each

No. 3D—Driver—Medium size head and light in weight, a little more upright in lie than regular; [illegible] adapted for ladies' use. Same dimensions as No. 3B Brassie. Lengths of clubs 40½ and 42 inches $3 25
4 40



Each

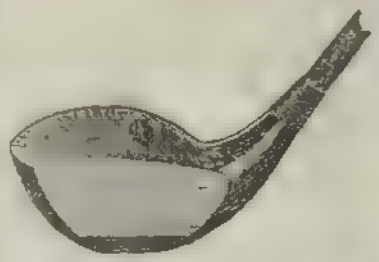
No. 3B—Brassie—More upright in lie than regular, medium size head and light in weight. Especially adapted for ladies' use. Depth of face 1¼ inches, length of face 2¼ inches, width of head 2⅜ inches, lengths of clubs 40½ to 42 inches .. $3 50
4 70

"Always specify in ordering whether Men's, Ladies', or whether Right or Left Hand Clubs are desired. In every instance where this does not appear we will always ship Men's Right Hand Clubs."

WOOD GOLF CLUBS

HILLERICH & BRADSBY

KORK GRIP



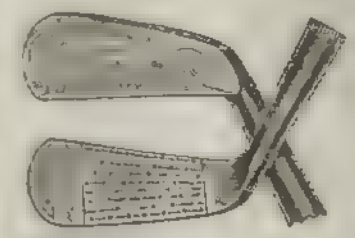
Each

No. 1BS—Brassie Spoon—Medium size head, long, well-lofted face, medium length shaft, depth of face 1⅜ inches, length of face 2⅝ inches, width of head 2¼ inches, lengths of clubs 40½ to 42 inches $3.50
4 70

Each

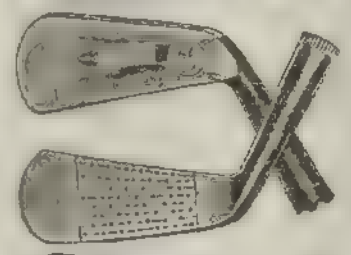
No. 2BC—Brassie Cleek—Narrow head, long striking surface, upright lie, short shaft, depth of face 1-3/16 inches, length of face 3 inches, width of head 2 inches, lengths of clubs 40½ and 41½ inches $3 50
4 70

IRON GOLF CLUBS



Each

No. 1DC—Driving Cleek—Diamond back, medium lie, light weight, dash-dot face, depth of blade 1¼ inches, length of blade 3¼ inches, loft of blade ⅜ inch, lengths of clubs 39 to 41 inches $3 00
4 00

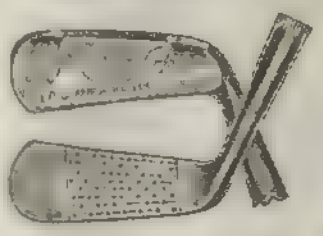


Each

No. 1DI—Driving Iron—Diamond back, medium lie, medium weight, dash-dot face, depth of blade 1⅜ inches, length of blade 3⅜ inches, loft of blade ⅝ inch, lengths of clubs 39 to 41 inches $3 00
4 00

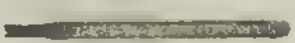
Each

No. 1AI—Approach Iron—Straight back, mid [illegible] ⅜ inch more loft, [illegible] for running up shots, [illegible] face, depth of blade 1⅜ [illegible], length of blade 3⅛ inches, loft of blade 1 inch, lengths of clubs 36 to 38 inches $3 00
4 00

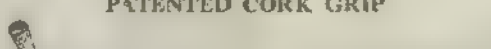


Each

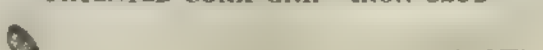
No. 1AC—Approach Cleek—Weighted back, more loft than regular cleek and used for long shots against wind, dash-dot face, depth of blade 1¼ inches, length of blade 3¼ inches, loft of blade ⅜ inch, lengths of clubs 36 to 37½ inches. ... $3 00
4 00



PATENTED CORK GRIP



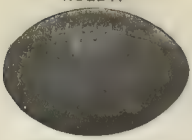
PATENTED CORK GRIP—IRON CLUB



PATENTED CORK GRIP—WOOD CLUB

REACH.

RUGBY.

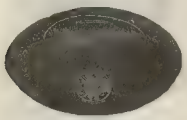


OFFICIAL VARSITY.

Each.

No. E5—Made of Special Imported Leather. Only the very best selection of this leather is used in this Ball, insuring a Perfect Shaped Ball. Put up complete with Foot Ball, Pump, Leather Lace, Lacing Needle and a Special Rubber Bladder..... $16.50

Weight, each 1¼ lbs.



INTER-COLLEGIATE.

Each.

No. 5—Made of selected Imported Pebble Grain Leather. A type of the perfect foot ball; true in all its proportions; perfectly symmetrical. Put up complete with Rubber Bladder, Pump for Inflating, Lacing Needle and Leather Lace..... $14.00

RUGBY MATCH.

No. 5R—Made of Superior American Pebble Grain Leather, lined with Best Canvas, guaranteed perfect shape. Put up complete with Bladder, Lacing Needle and Leather Lace. Regulation size..... 12.00

Approx. weight, each 1¼ lbs.

SCHOLASTIC.

Each

No. 5F—Made of fine American Pebble Grain Leather. Put up complete with Rubber Bladder, Lacing Needle and Leather Lace. Regulation size..... $10.50

AMATEUR RUGBY.

No. 5S—Made of the finest Pebble Grain Leather, Canvas Lined and guaranteed to hold their shape. Complete with Bladder. Regulation size..... 5.50

PRACTICE RUGBY.

No. 5M—Made of fine Pebble Leather, Canvas Lined and guaranteed to hold their shape. Complete with Bladder Regulation size..... 4.80

PLAYGROUND RUGBY.

No. 50—Made of best grade Keratol Imitation Leather, canvas lined, complete with bladder. Regulation size 4.00

ASSOCIATION.

AMATEUR.

Each.

No. 5X—Made of finest Pebble Grain Sheepskin leather, in eight sections, canvas lined and guaranteed to hold their shape. Complete with Bladder. Regulation size..... $7.30

Weight, each 1 lb

MATCH.

Each

No. 5B—Made of the finest American Pebble Grain leather, in eight sections. Put up complete with Rubber Bladder, Lacing Needle and Leather Lace..... $14.00

Weight, each 1½ lbs.

BLADDERS.

RUGBY.

Made of pure gum, strong, elastic and air-tight.

Per Dozen

No. 5R—For Rugby balls..$13.00
No. 5A—For Association balls 14.00
No. 7BB—Heavy pure gum, for basket balls... 15.00

Weight per dozen, 1 lb.

HEAD HARNESS.

Each.

No. 1—It is the latest and most improved head guard for foot-ball use. It is made of Best Grain Leather and thoroughly padded with Wool Felt a half inch thick, with an elastic to go under the chin, and is adjustable to any size head. It is a thorough protection to the crown and back of the head, also to the ears..... $5.50

No. 4—Is made on the same pattern as our No. 1, but of cheaper material. A good harness at the price 4.00

Weight, each 1½ lbs.

SHIN GUARDS.

The straps on all of our shin guards are full length and put on a new way, making them extra strong.

Per Pair.

No. 2—Brown tan leather, men's size, cane ribs, well padded, leather bound, an excellent guard in every respect..... $2.50

No. 5—Canvas, men's size, cane ribs, well padded, leather bound, the best canvas guard made—extra strong 1.55

No. 6—Made of brown canvas, men's size, cane ribs, well padded; a good guard at the price; has strong straps.... 2.20

Approx. weight per pair, ¼ lbs.

BOXING GLOVES.

REACH.

FIGHTING PATTERN.

Endorsed by all the leading pugilists.

Per Set of Four

No. 68—Professional fighting gloves; olive napa kid leather; special fighting pattern; welted seams; padded cuffs; deep laced; leather palm grips; weight, 5 ounces..... **$20.00**

Per Set of Four

No. 80—Special fighting gloves; green napa kid leather; special fighting pattern; deep laced; padded cuffs; leather palm grips; weight, 5 ounces..... **$18.00**

MEN'S.

Per Set of Four

No. 158—Boxing gloves; Corbett pattern; made of the finest quality green napa kid; filled with the finest quality curled hair; side pads; padded cuffs; patent perspiration proof lining and patent adjustable palm grip; patent laced wrist; all parts made extra strong; weight, 8 ounces.. **$27.24**

Per Set of Four

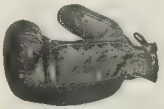
No. 90—Boxing gloves; craven tan kid leather with olive kid palms; Corbett pattern; padded cuffs; deep laced, adjustable palm grips; weight, 8 ounces..... **$24.00**

No. 45—Boxing gloves; brown tan kid leather with green napa leather palms; Corbett pattern; padded cuffs; deep laced adjustable palm grips; weight, 8 ounces **20.40**

MEN'S.

Per Set of Four

No. D—Boxing gloves; craven tan leather; Corbett pattern; padded cuffs; deep laced; palm grip; weight, 8 ounces .**$15.40**



Per Set of Four

No. 2KL—Boxing gloves; brown tan leather with khaki canvas palms; deep laced, leather palm grip; padded cuffs; men's size..... **$12.00**

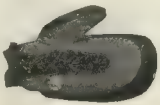
Per Set of Four

No. 3K—Boxing gloves; made of wine tan leather; well stuffed with hair; palm grip; laced wrist..... **$10.66**

BOY'S.

Per Set of Four

No. AC—Boxing gloves; olive tan leather; Corbett pattern; padded cuffs; deep laced; adjustable palm gripe; boy's size..... **$11.50**

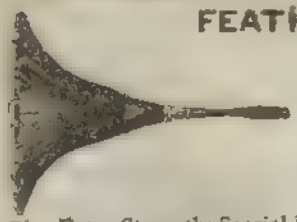


Per Set of Four

No. A—Boxing gloves; brown tan leather with khaki canvas palms; padded cuffs; deep laced; leather palm gripe; boy's size..... **$9.36**

Packed one set in a box.

FEATHER DUSTERS



***REDSTRONG**

Contains Almost 200 Selected High Grade Turkey Feathers; Outer Rows Tail Feathers; Inner Rows Wing Feathers, all Milled, Only the Clear, Flexible, Well Feathered Quill Remains; No Pointers, Cuffs or Broken Feathers; Patent Wood Mounting Gives Wide Spread; Bound to Give Extra Strength; Special Hand Fitting Handle of Convenient Length.

	R14	R16	R18
Length Feathers, Inches	14	16	18
Weight Dozen, lbs.	8	10	11
Per Dozen	$28 50	30 00	33 50

One in a Moth Proof Bag; Half Dozen in a Carton.

***LONGWEAR**

Specially Constructed for Hardware Trade; **Contains 120 Feathers, Extra Quality Selected High Grade; Outer Rows Tail Feathers, Inner Rows Wing Feathers; Patent Wood Mounting Gives Extra Wide Spread; Longwear Green Cuff Heavy Nickel Ferrule.**

Nos.	L14	L16	L18
Length Feathers, Inches	14	16	18
Weight Dozen, lbs.	7	8½	10
Per Dozen	$16 50	21 00	26.00

One in a Moth Proof Bag; Half Dozen in a Carton.

STANDARD

Full 100 Count; Standard Turkey Tail and Wing Feathers; No Pointers; Wood Block; Detachable Ebonized Wood Handle

Nos.	210	212	214	216	218
Feathers, in.	10	12	14	16	18
Wt. Doz., lbs.	4¼	6¼	6½	9	10½
Per Dozen	5.00	7.00	8.50	11.00	13 50

One in a Moth Proof Bag

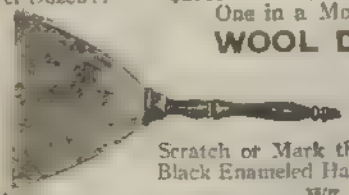
COMPETITION

Full 90 Count; Turkey Wing Feathers; No Pointers; Wood Block; Detachable Handle.

Nos.	310	312	314	316	318
Feathers, in.	10	12	14	16	18
Wt. Doz., lbs.	5¼	6¼	6¾	8½	9
Per Dozen	$4.00	5.50	7 00	9 00	10.00

One in a Moth Proof Bag.

WOOL DUSTERS



Assorted Colors; Made of Long, Silky Wool from the Far North with the Hide on which it Grew; Soft and Fleecy; will not Scratch or Mark the Finest Surfaces; Can be Washed. Black Enameled Handle.

Nos.	W7	W8	W9	W10
Length Wool, inches	7	8	9	10
Weight Dozen, lbs.	¼	3	3¾	6
Per Dozen	5.00	8.50	12.50	18.50

Twelfth Dozen in a Bag. One Dozen in a Box.

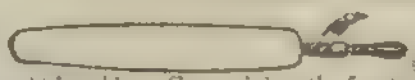
ROYAL BLUE AUTO

Made of High Grade Imported Wool, Well Filled and Very Strong; Held in Place by Reinforced Cuff; Soft and Fleecy; will not Scratch or Mark the Finest Surface; Black Enameled Handle Screws into Metal Head; Duster can be Washed.

Nos.	A	B	C	D
Length Wool in.	7	8	9	10
Wt. Doz., lbs.	1¼	3	3¾	6
Per Dozen	$20.00	26.50	33.00	40 00

Twelfth Dozen in a Bag; One Dozen in a Carton.

CARPET BEATERS



SPRING HANDLE

Never lames your arm; every stroke is bounding. Never burns your knuckles. Cannot injure the finest rug; it is perfectly smooth. The Bounding Puff of Air Through the Open Loop Does the Cleaning. Fine for Mattresses and Bedding. The Handle is screwed on. Can not come off.

Per Dozen

No. SH -8 Gauge Galvanized Steel Wire; Stained Hardwood Handle; Length Overall 36 inches, Weight per Dozen 9 lbs. $4 00

Loose

Tinned Steel Wire; Hardwood Handle.

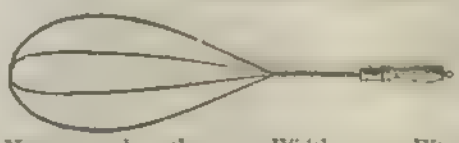
Nos.	Gauge	Length	Surface	Wt. per Doz.	Per Dozen
12	12	28 in.	9½x12	6 lbs.	$3 00
11	11	32 in.	10x14	7½ lbs.	3 50
10	10	35 in.	10x15	11 lbs.	4.50

One Dozen in a Bundle

Coppered Steel Wire; 10 Gauge, Extending Through Handle; Plain Hardwood Handle.

No.	Length	Width	Wt. per Doz.	Per Dozen
CDH	31 in.	10½ in.	8 lbs.	$2.30

One Dozen in a Bundle



Coppered Steel Spring Wire, 10 Gauge, Extending Through Handle; Plain Hardwood Handle.

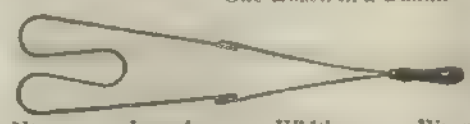
No.	Length	Width	Wt. per Doz.	Per Dozen
CL	36 in.	10½ in.	6¾ lbs.	$2.30

One Dozen in a Bundle

Braided Galvanized Steel Wires, 12 Gauge; Extending Through Handle; Plain Hardwood Handle.

No.	Length	Width	Wt. per Doz.	Per Dozen
GB	30 in.	10 in.	7½ lbs.	$2.50

One Dozen in a Bundle



Coppered Steel Wire; 8 Gauge; Black Enameled Wood Handle.

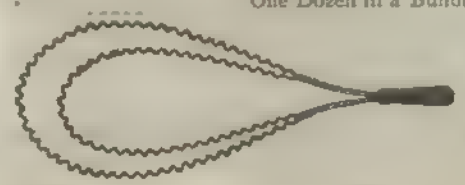
No.	Length	Width	Wt. per Doz.	Per Dozen
C4	30 in.	7 in.	8¼ lbs.	$3.00

One Dozen in a Bundle

Coppered Steel Wire; Plain Wood Handle.

No.	Gauge	Length	Width	Wt. per Doz.	Per Dozen
BA1	10	32 in.	12½ in.	10 lbs.	$4.50
BA2	11	27 in.	10¼ in.	7 lbs.	3.00

One Dozen in a Bundle



Galvanized Steel Spiral Wire; Malleable Iron Ferrule, Ash Handle.

Nos.	Gauge	Length	Width	Wt. per Doz.	Per Dozen
38	11	36	10½ in.	10½ lbs.	$2.20
38	9	38	12 in.	15 lbs.	2 70

One Dozen in a Bundle

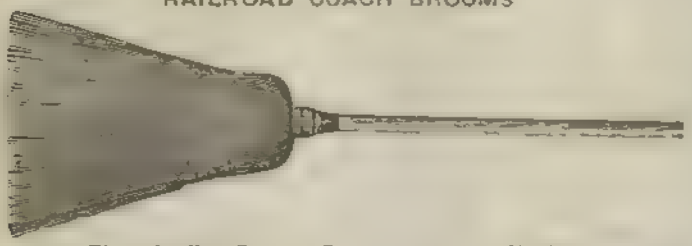
BROOMS

First Quality Broom Corn; Two Row Sewing, Wire Band

No.	Weight per Doz.	Per Dozen
238	[illegible] lbs.	$26 00
239	36 lbs.	30 00
240	42 lbs.	33 00

Half Dozen in a Bundle

RAILROAD COACH BROOMS



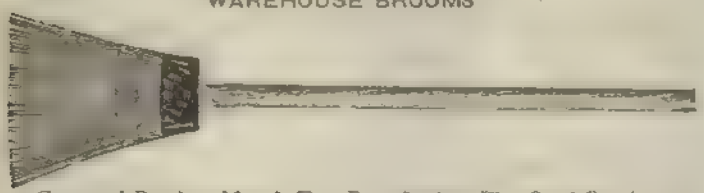
First Quality Broom Corn, Four Row Sewing.

Per Dozen

No. P30—Weight per Dozen 30 lbs. $24 00

Half Dozen in a Bundle

WAREHOUSE BROOMS



Corn and Bamboo Mixed; Two Row Sewing, Flat Steel Band

Per Dozen

No. L—Weight 36 lbs. per dozen. $28 00

Half Dozen in a Bundle

Bamboo Fibre Brooms, Metal Case, Two Row Sewing

Per Dozen

No. 228—Weight per Dozen 30 lbs. $8 50

Half Dozen in a Bundle

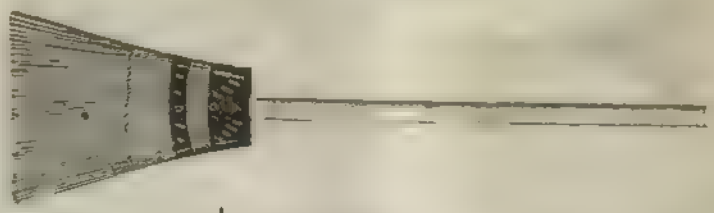
First Quality mixed Corn and Bamboo, Metal Case, Steel Band, Two Row Sewing.

No.	Weight per Doz.	Per Dozen
426	[illegible] lbs.	$24.00
427	40 lbs.	28 00

Half Dozen in a Bundle

BROOMS

WAREHOUSE BROOMS



Good Quality Rattan Brooms, Metal Case, Steel Band, One Row Sewing.

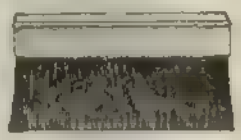
Per Dozen

No. 232—Weight per Dozen 24 lbs. $13 50

Half Dozen in a Bundle

PUSH BROOMS

For Street and Barn Use



BASS FIBRE

Impervious to Water, Never Rots; Long Wearing; the Flaring Ends Permit Easy Access to Corners and Places that Cannot be Reached with an Ordinary Broom; Not Affected by Acids; Dark Brown Color; Plain Hardwood Block; Wired in Strongest Possible Manner.

No.	BPB114
Length Block, inches	14
Rows Fibre	5
Length of Fibre, inches	6¼
Weight Dozen, lbs.	45
Per Dozen	$21 50

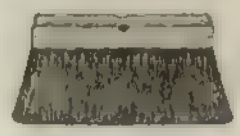
One Dozen in a Crate.

RATTAN

An Excellent Sweeper for Rough, Heavy Work on Pavements, in Barns, Stables, etc.. Each Set of Fibres Wired; Plain Hardwood Block.

Nos.	RPB12	RPB14
Length Block, inches	12	14
Rows, Rattan	4	4
Length Rattan, inches	6¼	6¼
Weight Dozen, lbs.	25	33
Per Dozen	$10.50	12.50

One Dozen in a Crate.



FLAT WIRE

Largely Used by Street Cleaning Departments and Street Railways; Tempered Flat Steel Wires; Plain Hardwood Block Beveled Top Corners.

Nos.	WPB12	WPB14
Length Block, inches	12	14
Rows, Wire	4	4
Length Wire, inches	5½	5½
Weight Dozen, lbs.	40	47
Per Dozen	$12 00	14.00

One Dozen in a Crate.

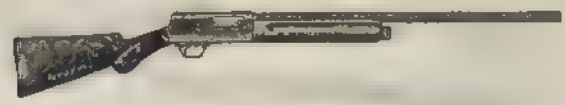
HANDLES FOR STREET BROOMS

Per Dozen

No. PBH—Ash, Length 5 Feet; Weight per Dozen 12 lbs.. $5 00

One Dozen in a Bundle.

REMINGTON AUTO-LOADING AND REPEATING SHOTGUNS



High-grade Remington steel barrel, 5 shots, take-down. Half pistol grip stock of American walnut, regular dimensions 14 inches long drop at heel 2⅛ inches, drop at comb 1⅝ inches. Any other length or drop of stock made to order at an advance of $10 00 list.

Solid ribbed barrel instead of plain at an advance of $7.50.

Ventilated ribbed barrel instead of plain at an advance of $15 50.

No. 11A, "Standard" Auto—12 gauge, 28 in. barrel. Weight 7¾ pounds.....Each $46.50

Specify Full or Modified Choke or Cylinder Bore

Five shot repeater, 28 in. Remington steel barrel, any desired choke. Stock and fore-arm are of selected imported walnut, neatly checkered. Stock 14¾ inches long, drop at heel 2¼ inches, drop at comb 1½ inches. Especially designed for trap-shooting.

No. 11C "Trap" Auto—12 gauge, 28 in. barrel. Weight 7¾ pounds .....Each $58 00

Five shot repeater, 28 and 26 in. Remington steel barrel, any desired choke. Stock and fore-arm are of specially selected imported walnut, delicately hand checkered. The receiver and barrel are finished with a rich scroll hand engraving. All working parts are hand polished. Pistol grip stock 14 inches in length, drop 2½ inches at heel, 1⅝ inches at comb. Solid breech, take-down

Solid ribbed barrel instead of plain at an advance of $7.50.

Ventilated ribbed barrel instead of plain at an advance of $15.50

No. 11D, "Tournament" Auto—12 gauge. Weight 7¾ lbs..Each $81.00
Extra Barrel .....Each 23 00

Five shot repeater, 28 and 26 in. Remington steel barrel, any desired choke. Stock and fore-arm are of the choicest imported walnut, handsomely checkered, silver name-plate inlaid in stock. The barrel and receiver are finished with a beautiful deep scroll hand engraving with a game panel on left side of receiver. All working parts are hand polished. Stock dimensions are same as No. 11D Tournament grade. Solid breech, take-down

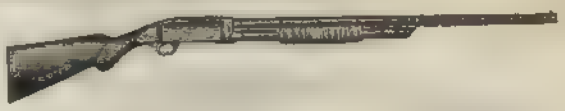
Solid ribbed barrel instead of plain at an advance of $7.50

Ventilated ribbed barrel instead of plain at an advance of $15.50.

No. 11E "Expert" Auto—12 gauge. Weight 7¾ lbs.....Each $116.00
Extra Barrel .....Each 29.00

NOTE—We will furnish Nos. 11D and 11E grade Autoloading shotguns, made to order, in any dimension of stock desired without extra charge. When straight grip is ordered on these grades, stock will be furnished 14¼ inches long, 2¼ inch drop at heel, and 1½ inch drop at comb, unless otherwise specified

When the gun is ordered with two barrels, we will send one full choke and the other cylinder bore, unless otherwise specified. Those having only one barrel with the gun can have an extra one fitted at the regular price by sending the complete gun to the factory.



Six shot repeater, take-down, hammerless. Remington steel barrel any desired choke. 30 in. full choke sent unless otherwise specified. Half pistol grip stock and fore-arm of American walnut, regular dimensions 13¾ inches long, drop at heel 2¼ inches, drop at comb 1⅝ inches. Any other length or drop of stock made to order at an advance of $10 00 list.

Solid ribbed barrel instead of plain at an advance of $7.50

Matting top surface of barrel, $7 50

No. 10A, "Standard" Repeater— Each

12 gauge, 30 in barrel, full or modified. Wgt. 7 to 8 lbs...$36 50
12 gauge, 28 in barrel, full or modified. Wgt. 7 to 8 lbs... 36 50
12 gauge, 26 in. barrel, cylinder. Wgt. 7 to 8 lbs.. ..... 36.50

Six shot repeater, take-down, especially designed for trap-shooting. Straight grip stock and fore-arm are of selected curly imported walnut and are neatly checkered. Stock dimensions, 14 inches long, drop 2 inches at heel and 1½ inches at comb.

No. 10C, "Trap" Repeater—12 gauge, 30 in. barrel, full choke. Weight 7 to 8 lbs.....Each $61 00

Six shot repeater, 26, 28, 30 and 32 in. Remington steel barrel any desired choke. Take-down, solid breech, hammerless. Stock and fore-arm are of specially selected imported walnut, neatly finished by hand with attractive checkering. The receiver and barrel are finished in a rich scroll hand engraving. All working parts are hand polished. Pistol grip stock 13¾ inches long, drop at heel 2¼ inches, drop at comb 1⅝ inches.

Solid ribbed barrel instead of plain at an advance of $7.50

Matting top surface of barrel, $7 50

Each

No. 10D, "Tournament" Repeater—12 gauge. Wgt. 7 to 8 lbs....$70 00
Extra Barrel .....Each 23 00

Six shot repeater, 26, 28, 30 and 32 in. Remington steel barrel any desired choke. Take-down, solid breech, hammerless. Stock and fore-arm are of the choicest imported walnut handsomely checkered by hand, silver name-plate inlaid in stock. The barrel and receiver are finished with a beautiful deep scroll hand engraving with panel on left side of receiver. All working parts are hand polished. Stock dimensions are same as No 10D Tournament grade. Made in 12 gauge only

Solid ribbed barrel instead of plain at an advance of $7.50

Matting top surface of barrel, $7.50

No. 10E, "Expert" Repeater—12 gauge. Wgt. 7 to 8 lbs..Each $105.00
Extra Barrel .....Each 29.00

NOTE—We will furnish Nos. 10D and 10E grade Pump guns made to order in any dimension of stock desired without extra charge. When straight grip is ordered in these grades stock will be furnished 14¼ inches long, 2 inch drop at heel and 1½ inches at comb, unless otherwise specified

SELF-LOADING AND REPEATING SHOTGUNS

WINCHESTER TAKE-DOWN REPEATING SHOTGUNS

Rolled steel barrel, pistol grip stock and fore-arm of plain wood, not checkered. The Winchester take-down Repeating Shotgun is the popular Winchester Model 1897, with a strong, simple, serviceable, and handy take-down system applied to it. This gun can be taken apart and put together as easily and quickly as a double-barreled shotgun, and can be carried in a Victoria case, packed in a trunk, or rolled up in camp bedding. The take-down system used on this gun is similar to the one used on Winchester take-down rifles. The interrupted screw system is used on the take-down shotgun. This permits the removal of the barrel from the receiver by a one-quarter turn.

Model 1897, "Standard"— Each

12 gauge, 32 in. barrel, full choke. Wgt. 8 lbs. $31.00
12 gauge, 30 in. barrel, full or modified. Wgt. 7¾ lbs. 31.00
12 gauge, 28 in. barrel, full or modified. Wgt. 7¾ lbs. 31.00
12 gauge, 26 in. barrel, cylinder. Wgt. 7⅛ lbs. 31.00
16 gauge, 28 in. barrel, full or modified. Wgt. 7⅛ lbs. 31.00

The barrel is made of the celebrated Winchester rolled steel, 30 inches long, handsomely matted on the top, and bored to shoot a close, even pattern with any trap load. All barrels are tested and none are sent out which will not shoot at least 200 pellets of shot inside a 30 in. circle at 40 yards, with a load of 3¼ drams of smokeless powder and 1¼ ounces of 7½ chilled shot. The stock is made of handsome selected walnut and has a well-shaped straight grip, which is checked, and a rubber butt-plate. It has a dark rich oil finish. The length of pull is 14 inches, the drop at comb 1⅝ inches and at heel 1⅜ inches. The comb is heavy and rounding, which minimizes cross-sighting. The action slide is made of selected walnut, finished to harmonize with the stock, and checked.

Model 1897, "Tournament"—

12 gauge, 30 in. barrel, full choke. Wgt. 7¾ lbs. ..... Each $48.00

30 in. rolled steel barrel, matted, chambered for 2¾ in. shells, bored to shoot smokeless powder and to target 200 pellets, of No. 7½ chilled shot, inside a 30 in. circle at 40 yards, with a load of 3¼ drams of smokeless powder and 1¼ ounces of shot. Selected fancy walnut, handmade, oil-finished stock, with straight or pistol grip, checked, and checked rubber butt-plate. The action slide handle is of fancy walnut, handsomely checked. The standard style of stock is 13¾ in. long, has a drop of 2⅜ inches at heel and 1⅝ inches at comb. The comb is heavy and rounding. The stock of this gun being handmade, any length or drop desired will be furnished without extra charge.

Model 1897, "Trap"—

12 gauge, 30 in. barrel, full choke. Wgt. 7¾ lbs. ..... Each $59.50

WINCHESTER REPEATING SHOTGUNS

The Winchester Model 1897 "Riot" gun is made especially to shoot buckshot. This gun is used by sentries in the U. S. Army, express messengers, watchmen, prison guards, train hands, manufacturers, and by many people for home defense. The stock, construction, etc., are like the Standard 1897 Model.

Model 1897, "Riot"—

12 gauge, 20 in. barrel, cylinder bore. Wgt. 7 lbs. .... Each $28.50

WINCHESTER HAMMERLESS REPEATING SHOTGUN

A two-part take-down safe gun, nickel steel barrel. No tools required to take it apart. When taken down can be cleaned from either end. Plain walnut stock and fore-end, rubber butt-plate, all metal parts of nickel steel, six shots.

Model 1912, "Standard"— Each

12 gauge, 30 in. barrel, full or mod. choke. Wgt. 7¼ lbs. ... $36.00
12 gauge, 28 in. barrel, full, mod. or cyl. Wgt. 7¼ lbs. 36.00
16 gauge, 26 in. barrel, full, mod. or cyl. Wgt. 6 lbs. 36.00
20 gauge, 26 in. barrel, full, mod. or cyl. Wgt. 5¾ lbs. 36.00

WINCHESTER HAMMERLESS REPEATING TOURNAMENT SHOTGUN

A two-part take down tournament gun, nickel steel barrel, with raised matted rib. Handsome stock of selected walnut, oil finished, with well-shaped straight grip, checked, rubber butt plate. Action slide handle of selected walnut, checked. The length of pull is 14 inches, drop at comb 1⅝ inches, and drop at heel 1⅜ inches. These dimensions have been worked out with a great deal of thought and care, to make the gun fit the average trap shooter's requirements and, therefore, handle well. The comb is heavy and rounding, which is a help to quick and accurate shooting, and also minimizes cross-sighting.

Model 1912 "Tournament"—

Each

12 gauge, 30 in. barrel, full choke. Wgt. about 7½ lbs. ... $54.00

MARLIN HAMMERLESS REPEATING SHOTGUN

Hammerless, solid steel breech inside as well as out, solid top, side ejection, matted barrel, press-button cartridge release, automatic recoil hang-fire safety device, double extractors, take-down, trigger and hammer safety. Barrels are our special rolled steel, an extra strong and tough quality. Breechbolt, firing pin and other important parts are of chrome nickel steel, specially heat-treated, with an elastic limit of over 100,000 pounds to square inch, nearly twice as strong as similar parts in other guns. Buttstock and fore-arms are fine straight-grained black walnut, handsomely shaped and finished. Buttstock measures 13½ in. in length, 1½ in. drop at comb, 2½ in. drop at heel, genuine rubber butt-plate.

No. 28A—12 gauge, 30 in. barrel, full choke. Wgt. 7¾ lbs. Each $30.00

MARLIN HAMMER REPEATING SHOTGUN

Barrels are of special rolled steel, take-down. American black walnut stock and fore-arm. Frame and action cut down from solid drop forgings to insure greatest possible strength, blued finish, six shots.

No. 24A—12 gauge, 28 or 30 in. barrel, full choke. Wgt. 7¾ lbs. Each $25.00

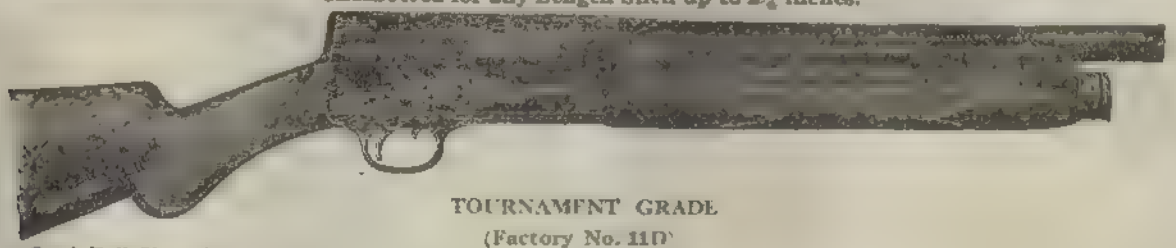
Each Gun in a Box

REMINGTON AUTO-LOADING REPEATING SHOT GUNS

GUARANTEED FOR NITRO POWDER

NOTE.—The Mechanical Construction of all Remington Auto-loading Repeating Shot Guns is the Same. After a Shot has been Fired the Recoil Opens the Breech Locks the Empty Shell Extracts, Carries the Cartridge Over the Breech and Locks the Breech, the Gun is Then Ready to be Fired Again by Pressing the Trigger. The Trigger must be Released and Pressed Each Time the Gun is Fired. In Consequence of the Recoil Being Utilized to Operate the Mechanism, the Recoil is Largely Absorbed and the Shooter is Spared the Discomforts that Otherwise Result from the "Kick." Greatest Rapidity of Fire.

Take Down, Solid Breech, Hammerless, 5 Shots, Side Ejector, Absolutely Safe and Sure in Action
Chambered for any Length Shell up to 2¾ inches.



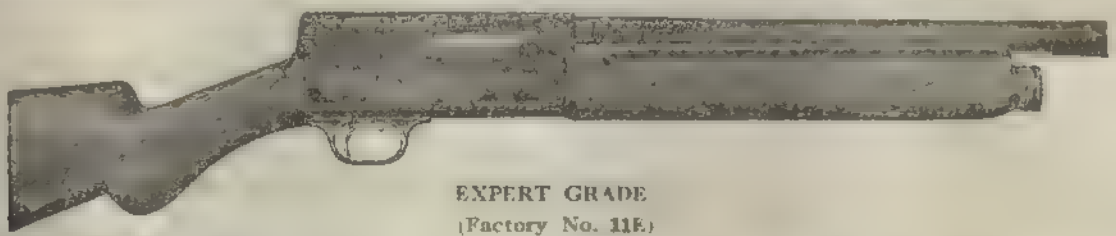
TOURNAMENT GRADE

(Factory No. 11D)

Barrel—Remington Steel, Full Choke Bored
Stock and Fore-arm—Fine English Walnut; Straight or Pistol Grip, Fine Checkering; Rubber Butt Plate; Length 14⅜ inches, Drop at Comb 1⅞ inches, Drop at Heel 2½ inches
Frame—Blued Steel; Extra Scroll Engraving; top of Receiver, Matted.

	Each
✣ No. 4 -12 Gauge; 28 Inch Barrel, Weight about 7¾ lbs.	$124 20

One in a Box



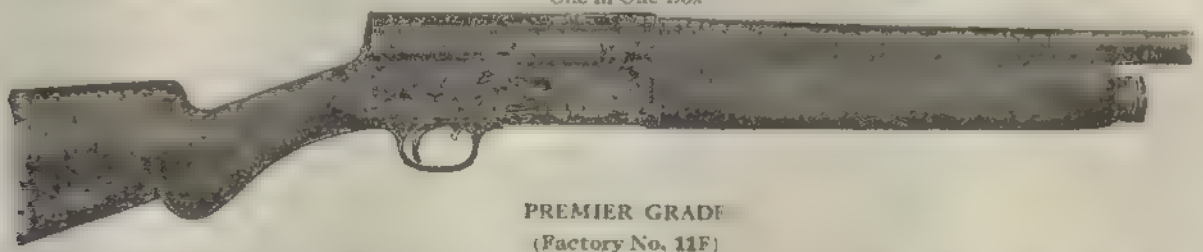
EXPERT GRADE

(Factory No. 11E)

Barrel—Remington Steel, Full Choke Bored.
Stock and Fore-arm—Best English Walnut, Straight or Pistol Grip, Extra Fine Checkering, Silver Nickel Plate, Rubber Butt Plate; Length 14⅜ inches; Drop at Comb 1⅞ inches, Drop at Heel 2½ inches.
Frame—Blued Steel, Extra Fine Scroll Engraving; Top of Receiver, Matted.

	Each
✣ No. 5—12 Gauge; 28 inch Barrel; Weight about 7¾ lbs.	$177.60

One in One Box



PREMIER GRADE

(Factory No. 11F)

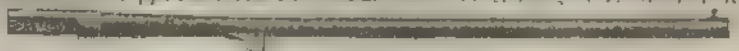
Barrel—Remington Steel, Full Choke Bored.
Stock and Fore-arm—Circassian Walnut, Straight or Pistol Grip, Elaborate Checkering, Gold Name Plate; Rubber Butt Plate, Length 14⅜ inches; Drop at Comb 1⅞ inches, Drop at Heel 2½ inches.
Frame—Blued Steel; Finest Quality Bird and Game Engraving, Top of Receiver, Matted.

	Each
✣ No. 6—12 Gauge; 28 inch Barrel; Weight about 7¾ lbs.	$208 00

One in a Box

EXTRA BARRELS FOR REMINGTON AUTO-LOADING SHOT GUNS

NOTE.—The Barrels and Stocks for the Guns are Not Interchangeable. In Order to Furnish a Gun with Extra Interchangeable Barrel it Will be Necessary to have both the Stock and Action, and the Barrel to be Fitted to Same. When Ordering from St. Louis Stock, then send in a Separate Order for an Extra Barrel. Stock Direct from Factory. Barrel Drawing No. 30 is to Scale Drawing the Browning would Interchange.



		Each
✣ Grade No. 1	—Remington Steel, 26 or 28 inches, Modified Choke or Cylinder Bored	$28.50
✣ Grade No. 1M	Remington Steel, 26 or 28 inches, Full Choke or Cylinder Bored	28.50
✣ Grade No. 1C	—Remington Steel, 26 or 28 inches, Full Choke or Modified Choke Bored	28.50
✣ Grade No. 0	Remington Steel, 26 or 28 inches, Full Choke, Modified or Cylinder Bored	28 50
✣ Grade No. 10M	Remington Steel, 26 or 28 inches, Modified Choke or Cylinder Bore	$1 70
✣ Grade No 2	Remington Steel, 26 or 28 inches, Modified Choke or Cylinder Bore	28 50
✣ Grade No. 3	Remington Steel, 26 or 28 inches, Modified Choke or Cylinder Bore	28 50
✣ Grade No. 4	Remington Steel, 26 or 28 inches, Modified Choke or Cylinder Bored	35 40
✣ Grade No. 5	—Remington Steel, 26 or 28 inches, Modified Choke or Cylinder Bore	41 40
✣ Grade No. 6	—Remington Steel, 26 or 28 inches, Modified Choke or Cylinder Bored	53 20

STOCKS

NOTE. The Standard Dimensions for Stocks on Remington Auto-loading Shot Guns are Length 14⅜ inches; Drop at Comb 1⅞ inches, Drop at Heel 2½ inches. 14 inch Stocks will be Made to Order Only without Extra Charge

NOTE. A 14⅜ inch Stock on a Auto-loading Gun Corresponds in Length of Stock and Pull to a 14 inch Stock on a Pump Gun. Thus a 28 inch Barrel Gun and a 14¾ inch Stock on a Pump Gun.

✣ Any Deviation from Above Standard Stock Dimensions Made to Order Only at an Advanced Cost of $16 34 Each

EXTRAS FOR AUTO-LOADING SHOT GUNS

	Each
✣ Checkered Grip and Fore End, Extra	$10.00

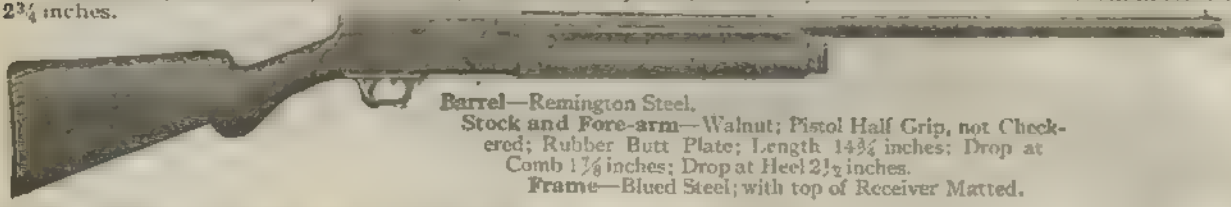
Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Ilion, N. Y.

REMINGTON AUTO-LOADING REPEATING SHOT GUNS

Guaranteed for Nitro Powder

NOTE. The Mechanical Construction and Resulting Action of Remington Auto-Loading Shot Guns is the same. After a Shot has been Fired the recoil opens the Breech, Ejects the Empty Shell, Recocks the Hammer and Locks the Breech, and leaves the Arm ready to be Fired again by Pressing the Trigger. The Trigger must be Released and Pulled each time the Gun is fired. In Consequence of the Recoil being Utilized to Operate the Mechanism, the recoil is Largely Absorbed, and the Shooter is spared the Discomforts that Otherwise result from the "Kick." See the Remington Repeaters.

Take Down, Solid Breech, Hammerless, 5 Shots, Side Ejector; Absolutely Safe and Sure in Action; Chambered for any Length Shell up to 2¾ inches.

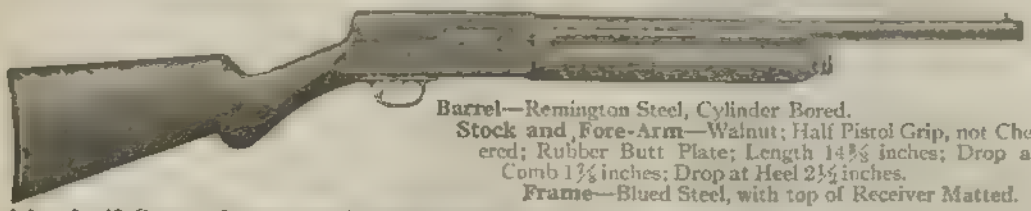


STANDARD GRADE (Factory No. 11A)

Barrel—Remington Steel.
Stock and Fore-arm—Walnut; Pistol Half Grip, not Checkered; Rubber Butt Plate; Length 14¾ inches; Drop at Comb 1⅞ inches; Drop at Heel 2½ inches.
Frame—Blued Steel; with top of Receiver Matted.

		Each
No. 1	12 Gauge; 28 inch Barrel, Full Choke Bored; Weight about 7½ lbs.	$69 60
No. 1M	12 Gauge; 28 inch Barrel, Modified Choke Bored; Weight about 7½ lbs.	69 60
No. 1C	12 Gauge; 26 and 28 inch Barrels; Cylinder Bored; Weight about 7½ lbs.	69 60

One in a Box



RIOT GRADE (Factory No. 11R)

For Express Messengers, Guards, Bank or House Protection, Street Disturbances, etc., no Small Arm is Effective as this Gun Loaded with Buckshot.

Barrel—Remington Steel, Cylinder Bored.
Stock and Fore-Arm—Walnut; Half Pistol Grip, not Checkered; Rubber Butt Plate; Length 14⅜ inches; Drop at Comb 1¾ inches; Drop at Heel 2½ inches.
Frame—Blued Steel, with top of Receiver Matted.

	Each
✣ No. 0—12 Gauge; 20 inch Barrel; Weight about 7 lbs.	$69.60

STANDARD GRADE, WITH EXTRA BARREL (Factory No. 11A)

Barrel—Remington Steel.
Stock and Fore-arm—Walnut; Half Pistol Grip, not Checkered; Rubber Butt Plate; Length 14⅜ inches; Drop at Comb 1⅞ inches; Drop at Heel 2½ inches.
Frame—Blued Steel; with top of Receiver Matted.

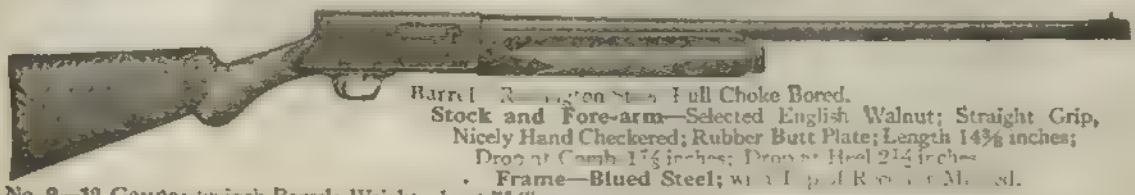
	Each
No. B1 12 Gauge; 28 inch Barrel, Regular Barrel Bored Full Choke Bored, Extra Barrel 28 inch Cylinder Bored; Weight with One Barrel 7¾ lbs.; with both Barrels 10½ lbs.	$98 10
No. B1 26 12 Guage; 26 inch Barrel, Regular Barrel 26 inch Full Choke Bored; Extra Barrel 26 inch Cylinder Bored; Weight with One Barrel 7¾ lbs.; Weight with Both Barrels 10½ lbs.	98.10
No. B1M—12 Gauge; 28 inch Barrel; Regular Barrel Modified Choke Bored; Extra Barrel Cylinder Bored; Weight with One Barrel 7¾ lbs.; with both Barrels 10⅛ lbs.	98.10

STANDARD GRADE WITH RAISED MATTED RIB (Factory 11A)

Barrel—Remington Steel.
Stock and Fore-arm—Walnut; Half Pistol Grip, not Checkered, Rubber Butt Plate; Length 14⅜ inches; Drop at Comb 1⅞ inches; Drop at Heel 2½ inches.
Frame—Blued Steel, with top of Receiver Matted.

	Each
No. 10M—12 Gauge; 28 inch Barrel; Full Choke Bored; Weight about 8 lbs.	$80 80
No. 10MM—12 Gauge; 28 inch Barrel; Modified Choke Bored; Weight about 8 lbs.	80 80
No. 10MC—12 Gauge; 28 inch Barrel; Cylinder Bored; Weight about 8 lbs.	80.80

One in a Box



SPECIAL GRADE (Factory No. 11B)

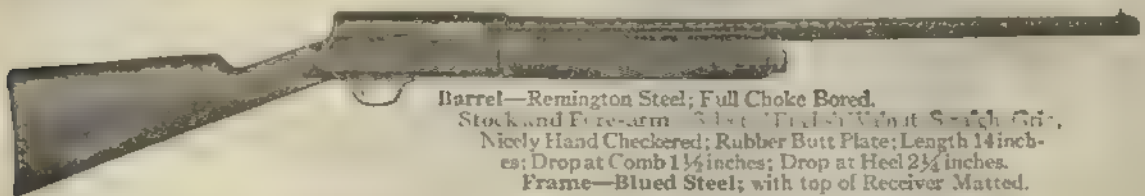
Barrel—Remington Steel, Full Choke Bored.
Stock and Fore-arm—Selected English Walnut; Straight Grip, Nicely Hand Checkered; Rubber Butt Plate; Length 14⅜ inches; Drop at Comb 1⅝ inches; Drop at Heel 2½ inches.
Frame—Blued Steel; with Top of Receiver Matted.

	Each
No. 2—12 Gauge; 28 inch Barrel; Weight about 7¾ lbs.	$88 60

SPECIAL GRADE NO. 2 WITH MATTED RIB

	Each
No. 2M—12 Gauge; 28 inch Barrel; Weight about 7¾ lbs.	$99 80

One in a Box



TRAP GRADE (Factory No. 11C)

Barrel—Remington Steel; Full Choke Bored.
Stock and Fore-arm—Select English Walnut Straight Grip, Nicely Hand Checkered; Rubber Butt Plate; Length 14 inches; Drop at Comb 1½ inches; Drop at Heel 2¾ inches.
Frame—Blued Steel; with top of Receiver Matted.

	Each
No. 3—12 Gauge; 28 inch Barrel; Weight about 7¾ lbs.	$88.60

TRAP GRADE NO. 3 WITH MATTED RIB

	Each
No. 3M—12 Gauge; 28 inch Barrel; Weight about 7¾ lbs.	$99.80

One in a Box

Items Marked ✣ Not Carried in Stock; Can only be Furnished by Shipping Direct from Factory, Ilion, N. Y.

REMINGTON REPEATING RIFLES

New .22 Caliber Auto-Loading;—No. 16A Standard Grade

SPECIFICATIONS

SIMPLICITY—The [illegible] of this arm is extremely [illegible] the working parts [illegible] trigger, insuring dependable operation under all conditions.

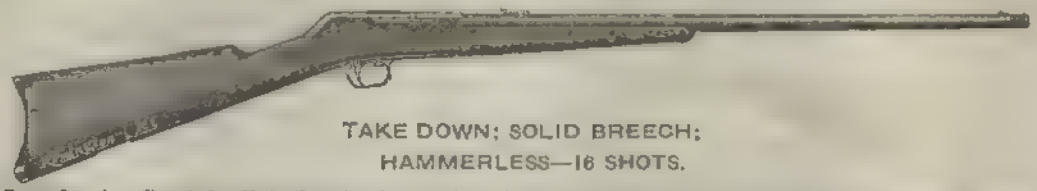
ACCURACY—This rifle has [illegible] barrel [illegible] to the [illegible] MC standard of [illegible] qualities. It is placed on the market together with the latest development in Remington-UMC .22 caliber rim fire [illegible]. [illegible], having been especially designed for Remington-UMC Auto-loading rifles, is [illegible]. [illegible] load but gives the maximum [illegible], and there is [illegible] no [illegible] [illegible] cartridges [illegible] with [illegible] cartridges of other brands.

SAFETY—The [illegible] is [illegible] conveniently [illegible] thumb [illegible] trigger. When the [illegible] is pushed to [illegible] the trigger or fire the arm, the safety [illegible] indicates whether the gun is locked [illegible] the safety [illegible] "on" until [illegible] the gun is [illegible]. Model 16 being hammerless, it is impossible for premature discharge to occur from striking [illegible] part, as is often the case with old style rifles having hammers.

TAKEDOWN—The [illegible] quickest and simplest known, and embodies [illegible] features to preserve [illegible] of the barrel with the frame. When [illegible], the [illegible] can be [illegible] by [illegible] the [illegible] take-down button give the barrel a [illegible] turn, and when [illegible]. No screws [illegible] to [illegible], and [illegible] cartridges and by removal [illegible] assembling screw, which [illegible] of the [illegible], rendering [illegible] impossible. [illegible] of very important feature: Provision [illegible] to take up [illegible] which can [illegible] to [illegible] of barrel to frame at all times.

[illegible] may be [illegible] from [illegible] any [illegible] conveniently [illegible] without [illegible] proper care of any .22 caliber [illegible] with which [illegible] is to be used.

MAGAZINE—A simple tube holding fifteen cartridges is arranged within the stock where it is protected from injury incident to rough usage in all conditions. This feature also affords the development of more symmetrical outlines than [illegible] in other arms where the magazine is placed beneath the barrels. The loading hole is on the bottom of the stock and [illegible]. Cartridges [illegible] single-loaded into the barrel, making a reserve of 16 shots.



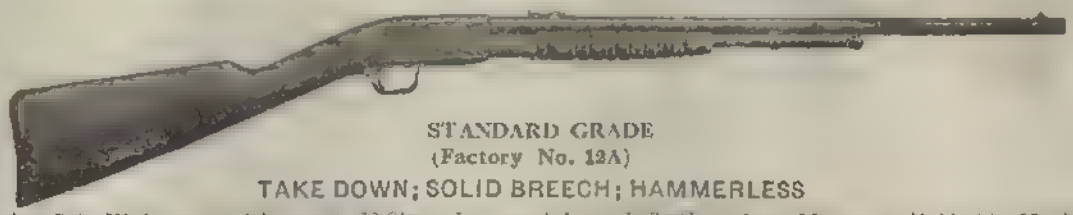
TAKE DOWN; SOLID BREECH; HAMMERLESS—16 SHOTS.

22 inch Round Barrel only; Straight Grip Stock of American Walnut, Steel Butt Plate; Blued Finish; Adjustable Straight Bar Rear Sight and White Metal Bead Front Sight, Weight 5¾ lbs

Each

No. RA22—22 Caliber; Shoots .22 Caliber Remington Auto-loading Cartridges; 16 Shots..... $47.30

Ten in a Case



STANDARD GRADE
(Factory No. 12A)

TAKE DOWN; SOLID BREECH; HAMMERLESS

Each

No. R122—Chambered to Take Without Any Adjustment 22 Short, Long and Long Rifle Cartridges; Magazine Holds 11 22 Short 11 .22 Long or 10 [illegible] Rifle Cartridges; 24 inch Octagon Barrel, Straight Grip, Walnut Stock, fitted with Rubber Butt Plate; Weight 4¾ lbs. ... $24.40

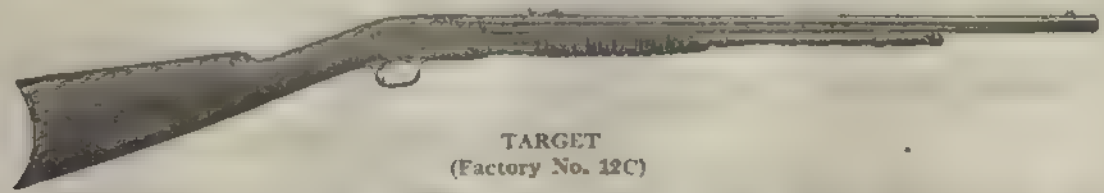
Ten in a Case

GALLERY SPECIAL
(Factory No. 12B)

Each

No. R222—Chambered for .22 Short Only; Magazine Holds 15 Short Cartridges; 24 inch Octagon Steel Barrel; Pistol Grip; Walnut Stock, fitted with Steel Rifle Butt Plate; Weight 5¾ lbs. ... $20.90

Ten in a Case

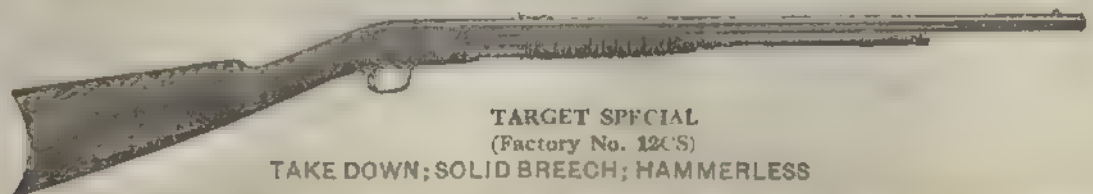


TARGET
(Factory No. 12C)

Each

No. R322—Chambered to Take Without Any Adjustment 22 Short, Long and Long Rifle Cartridges; Magazine Holds 15 Short, 12 Long or 11 Long Rifle Cartridges; 24 inch Octagon Steel Barrel; Straight Grip, Walnut Stock, fitted with Steel Rifle Butt Plate; Weight 5½ lbs. ... $20.90

Ten in a Case



TARGET SPECIAL
(Factory No. 12CS)

TAKE DOWN; SOLID BREECH; HAMMERLESS

Each

No. R322S—Chambered to Take 22 W.R.F. or .22 Remington Special Cartridges; Magazine Holds 15 Long Rifle Cartridges, 24 inch Octagon Steel Barrel, Straight Grip, Walnut Stock, fitted with Steel Butt Plate; Weight [illegible] ... $20.90

Ten in a Case

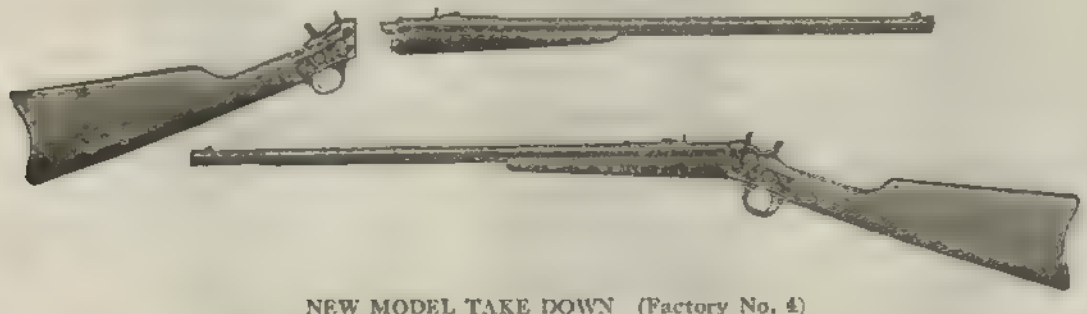
REMINGTON SINGLE SHOT RIFLES

NEW MODEL—TAKE DOWN (Factory No. 6)

20 Inch Decarbonized Steel Round Barrel; Tapered, Case Hardened Frame; Genuine Walnut Stock and Fore-end, Rifle Butt Plate; New Design Open Front, Rear and Tang Peep Sights; Barrel Detached by Loosening Thumb Screw.

	Each
No. 620—22 Caliber; Shoots BB and CB Caps, 22 SRF, 22 LRF and 22 Long Rifle, Black or Smokeless Powder Cartridges; Weight About 3½ lbs.	$9 50
No. 630—32 Caliber; Shoots 32 SRF and 32 LRF Cartridges; Weight About 5 lbs.	9.50

One in a Box with Cleaning Rod; Ten in a Case



NEW MODEL TAKE DOWN (Factory No. 4)

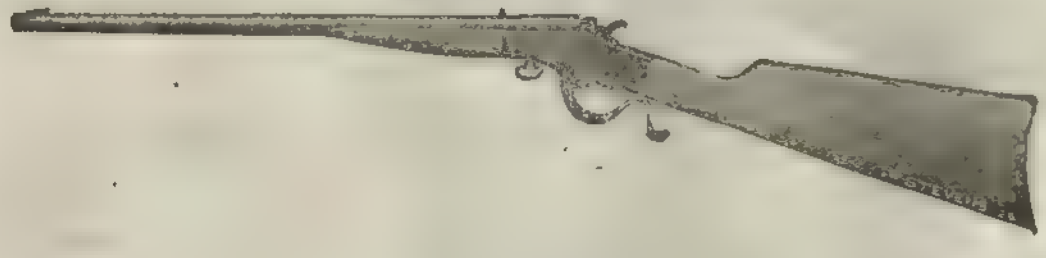
Octagon Steel Barrel; Tapered; Forged Case Hardened Frame; Genuine Walnut Stock and Fore-end; Parts of Mechanism of Forged Steel, Rifle Butt Plate; Automatic Shell Ejector, which Throws Fired Shell from Carrier when Breech is Opened, New Design Open Sights; all Parts Interchangeable; Weight About 4¼ lbs.

	Each
No. 422—22 Caliber; Shoots 22 SRF and 22 LRF Cartridges; 22½ inch Barrel	$13 80
No. 432—32 Caliber; Shoots 32 SRF and 32 LRF Cartridges; 24 inch Barrel	13 80

+No. 4 Rifles also Supplied in Smooth Bore for Shot Cartridges to Order from Factory, Ilion, N. Y.

One in a Box with Cleaning Rod; Ten in a Case

STEVENS RIFLES



CRACK SHOT

TAKE DOWN—SINGLE SHOT

18 Inch Round Barrel; Blued Frame, Lever Action; Oval Stock, Carbine Butt Plate, Knife Blade Front and Open Rear Sights; Weight ¼ lbs.

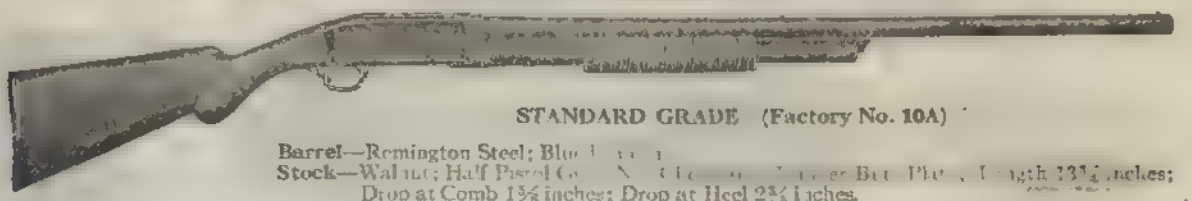
	Each
No. 2022—22 Caliber; Shoots 22 Short, 22 Long and 22 L. R. Cartridges, Also C. B. Caps	$7.60

One in a Box

REMINGTON REPEATING SHOT GUNS

NOTE.—The Mechanical Construction of all Remington Repeating Shot Guns is the same; they have an Absolute Solid Breech, Closed on Top. Loading and Ejecting of Shells is Accomplished from the Under Side, with the Advantage that Ejected Shells are kept away from the Face of the Shooter, and [illegible] interfering with the Movement of the Gun. [illegible] Bursted Shells, [illegible] Direct Pull of Recoil [illegible] Only [illegible] Cut and Dried to put Gun Together.

PUMP ACTION, TAKE DOWN, SOLID BREECH, HAMMERLESS, 6 SHOTS BOTTOM EJECTOR, BLUED RECEIVER MODEL 1908.



STANDARD GRADE (Factory No. 10A)

Barrel—Remington Steel; Blue [illegible]
Stock—Walnut; Half Pistol Grip, Non-[illegible] Rubber Butt Plate, Length 13¾ inches; Drop at Comb 1⅝ inches; Drop at Heel 2¾ inches.

	Each
No. RR12F—12 Gauge; 28, 30 and 32 inch Barrels; **Full Choke Bored**; Weight 7½ lbs.	$55.10
No. RR12M—12 Gauge; 28 and 30 inch Barrels; Modified Choke Bored; Weight 7½ lbs.	55 10
No. RR12C—12 Gauge, 28 and 30 inch Barrels, Cylinder Bored; Weight 7½ lbs.	55 10

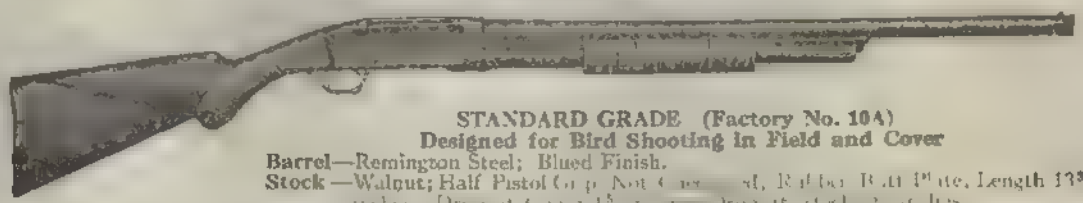
NO. 1 STANDARD GRADE WITH RAISED MATTED RIB

	Each
No. RR12FM—12 Gauge; 30 and 32 inch Barrels, Full Choke Bored; Weight [illegible]	$66 30

STANDARD GRADE WITH EXTRA BARRELS

	Each
No. RR2612—12 Gauge; 26 inch Full Choke and 26 inch Cylinder Bored Barrels; Weight [illegible] lbs.	$83 40
No. RR2812—12 Gauge; 28 inch Full Choke and 28 inch Cylinder Bored Barrels; Weight [illegible] lbs.	83 40
✣Any Variation of Stock Dimensions Other than Those Given [illegible] Subject to an Additional Charge of	13 50

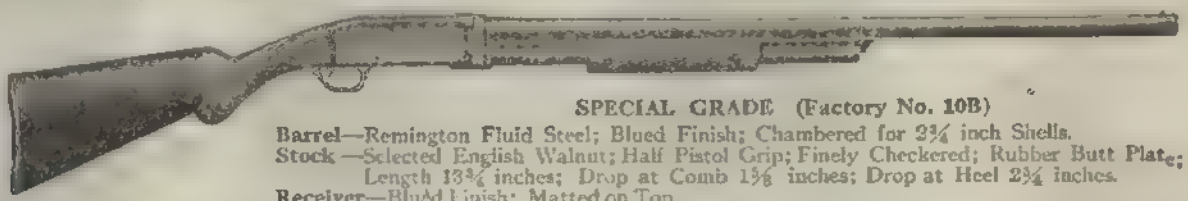
One in a Box



STANDARD GRADE (Factory No. 10A)
Designed for Bird Shooting in Field and Cover

Barrel—Remington Steel; Blued Finish.
Stock—Walnut; Half Pistol Grip, Not [illegible], Rubber Butt Plate, Length 13¾ inches; Drop at Comb 1⅝ inches; Drop at Heel 2¾ inches.

	Each
No. RRF12—12 Gauge; 26 inch Barrel; **Cylinder Bored**; Weight 7¼ lbs.	$55 10
✣Any Variation of Stock Dimensions Other than Those Given on above Guns, are Subject to an Additional Charge of	16.34

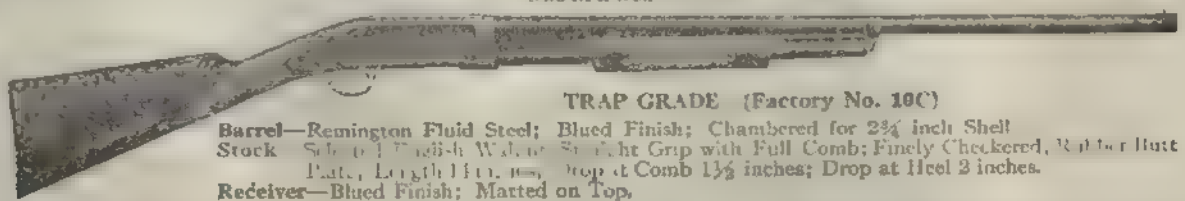


SPECIAL GRADE (Factory No. 10B)

Barrel—Remington Fluid Steel; Blued Finish; Chambered for 2¾ inch Shells.
Stock—Selected English Walnut; Half Pistol Grip; Finely Checkered; Rubber Butt Plate; Length 13¾ inches; Drop at Comb 1⅝ inches; Drop at Heel 2¾ inches.
Receiver—Blued Finish; Matted on Top.

	Each
No. R2S12—12 Gauge, 30 and 32 inch Barrels; **Full Choke Bored**; Weight 7¼ lbs.	$91 90
✣Will Furnish No. R2S12 Guns Made to Order with Stocks 13½ to 15 inches Long, and with Drops from 2¼ to 3¼ inches, without Extra Charge	

One in a Box

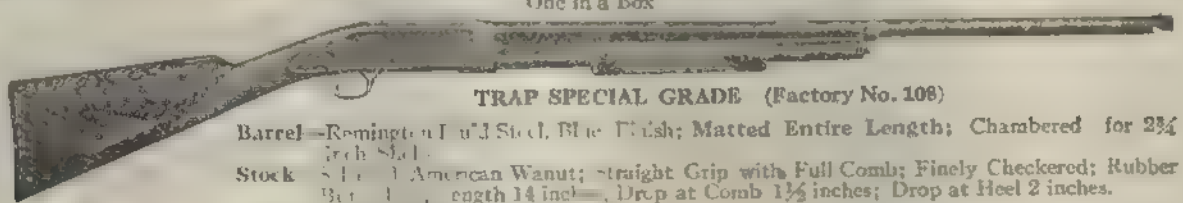


TRAP GRADE (Factory No. 10C)

Barrel—Remington Fluid Steel; Blued Finish; Chambered for 2¾ inch Shell
Stock—Selected English Walnut, Straight Grip with Full Comb; Finely Checkered, Rubber Butt Plate, Length 14 inches, Drop at Comb 1⅝ inches; Drop at Heel 2 inches.
Receiver—Blued Finish; Matted on Top.

	Each
No. RRT12—12 Gauge; 30 inch Barrel; **Full Choke Bored**; Weight 7¾ lbs.	$91 90
✣Will Furnish No. RRT12 Guns Made to Order with Stocks 13½ to 15 inches Long, and with Drops from 2¼ to 3¼ inches, without Extra Charge	

One in a Box



TRAP SPECIAL GRADE (Factory No. 10S)

Barrel—Remington Fluid Steel, Blue Finish; **Matted Entire Length**; Chambered for 2¾ inch Shells.
Stock—Selected American Walnut; Straight Grip with Full Comb; Finely Checkered; Rubber Butt Plate, Length 14 inches, Drop at Comb 1⅝ inches; Drop at Heel 2 inches.
Receiver—Blued and [illegible]; Matted on Top.

	Each
No. RTS12—12 Gauge; 30 inch Barrel, Full Choke Bored; Weight 7¾ lbs.	$79 80
✣Any Variation of Stock Dimensions Other than Those Given on [illegible] Guns are Subject to an Additional Charge of	16.34

One in Box

Cut Shows Barrel with Raised Matted Rib as used on No. RTSM12 Gun.

TRAP SPECIAL GRADE WITH RAISED MATTED RIB (Factory No. 10S)

	Each
No. RTSM12—With Raised Matted Rib; Otherwise the Same as No. RTS12	$91 00
✣Any Variation of Stock Dimensions Other than Those Given on above Guns are Subject to an Additional Charge of	16.34

One in Box

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Ilion, N. Y.

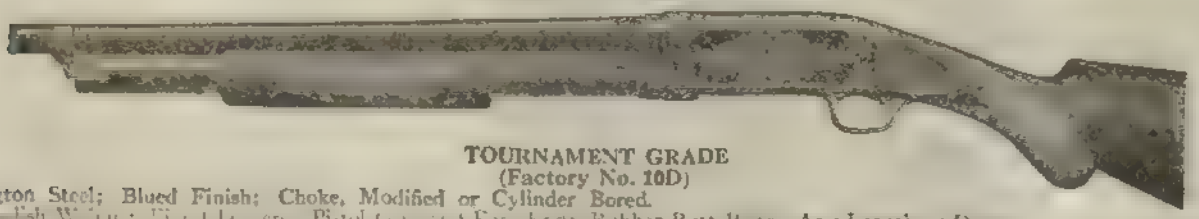
Remington

REMINGTON REPEATING SHOT GUNS

Remington

NOTE.—The Mech[illegible] Construction of All Remington Repeating Shot Guns is Dependable. They Have an Absolutely Solid Breech, Closed on Top Locking [illegible] Shells are Completely Protected [illegible] the Action, Together With Working Parts, are Kept Away From the Face of the Shooter and Loading [illegible] Shells [illegible] Perfectly Safe Features. Barrels are Chambered for Brass Shells. Barrels Easily Removed for Cleaning. Rebounding Hammerless Action. Positive Safety Device. Solid Breech Block Must Be Down in Order to Put Gun Together

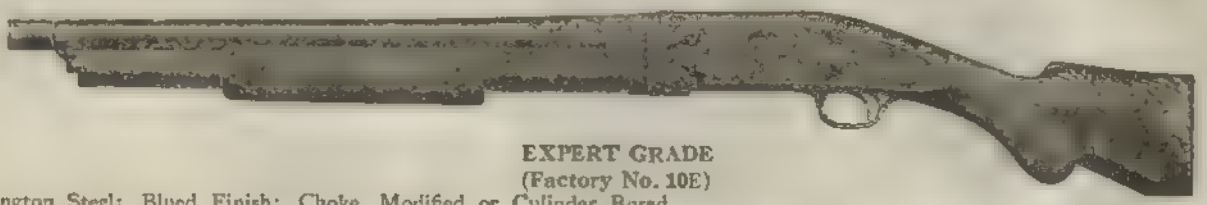
PUMP ACTION, TAKE DOWN, SOLID BREECH, HAMMERLESS, 6 SHOTS, BOTTOM EJECTOR
BLUED RECEIVER
MODEL 1908



TOURNAMENT GRADE
(Factory No. 10D)

Barrel—Remington Steel; Blued Finish; Choke, Modified or Cylinder Bored.
Stock—Fine [illegible] Walnut; Fine Checkered Pistol Grip and Fore End; Rubber Butt Plate, Any Length or Drop.
Receiver—Extra Scroll Engraving.

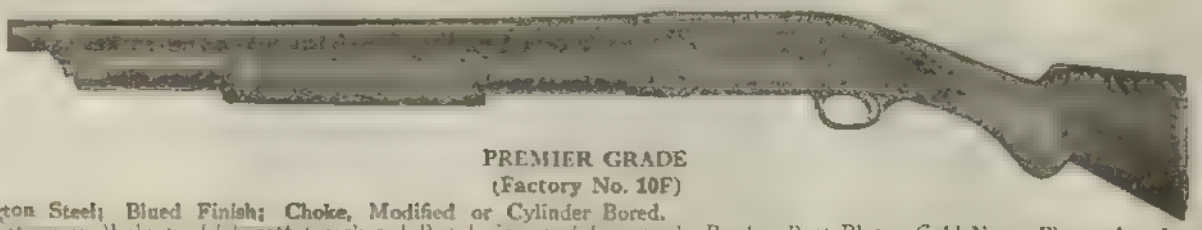
	Each
✣ No. R4T12—12 Gauge; 26, 28, 30 and 32 inch Barrels; Bored to Suit Purchaser; Weight 7¼ lbs. One in a Box	$107 00



EXPERT GRADE
(Factory No. 10E)

Barrel—Remington Steel; Blued Finish; Choke, Modified or Cylinder Bored.
Stock—Best English Walnut; Extra Checkered Pistol Grip and Fore End, Rubber Butt Plate, Silver Name Plate; Any Length or Drop.
Receiver—Fine Scroll and Game Engraving.

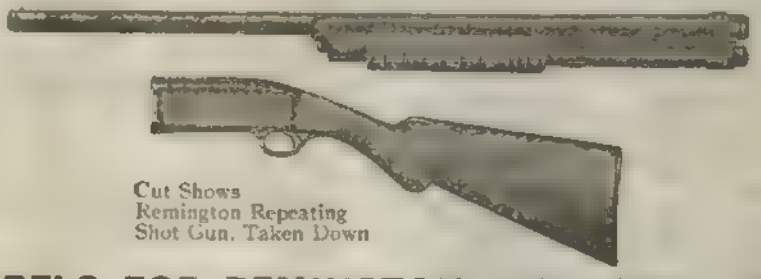
	Each
✣ No. R5E12—12 Gauge; 26, 28, 30 and 32 inch Barrels; Bored to Suit Purchaser; Weight 7¼ lbs. One in a Box	$160 30



PREMIER GRADE
(Factory No. 10F)

Barrel—Remington Steel; Blued Finish; Choke, Modified or Cylinder Bored.
Stock—Finest [illegible] Walnut; Extra Checkered Pistol Grip and Fore End; Rubber Butt Plate, Gold Name Plate, Any Length or Drop.
Receiver—Finest Quality Bird and Game Engraving.

	Each
✣ No. R6P12—12 Gauge; 26, 28 30 and 32 inch Barrels; Bored to Suit Purchaser; Weight 7¼ lbs. One in a Box	$240 60



Cut Shows
Remington Repeating
Shot Gun, Taken Down

EXTRA BARRELS FOR REMINGTON REPEATING SHOT GUNS

NOTE.—In All Cases Extra Barrels will have to be Fitted at the Factory, as they are not Interchangeable

Prices include Barrel Complete with Yoke and Lug, but without Magazine and Action Slide

	Each
✣ Extra Barrels for RR12C, RR12M, RR12C, RRF12, RTS12, RRT12 Remington Steel	$28.30
✣ Extra Barrels for R4T12; Remington Steel	35.70
✣ Extra Barrels for R5E12; Remington Steel	45.20
✣ Extra Barrels for R6F12; Remington Steel	53.60
✣ Extra Barrels for RTS12; Remington Steel	38.00
✣ Extra Barrels for RR12FM; Remington Steel	39.50
✣ Matting Barrel	11.20
✣ "Ordnance" Steel Barrels will be Furnished instead of "Remington" Steel at Extra Low Price of	11 20

"Ordnance" Steel is the Highest Grade, and is especially Recommended for Heavy Charges Nitro Powder. The Tensile Strength of the Steel is 110,000 lbs., and Its Elastic Limit 60,000 lbs., thus being Greatly in Excess of any Strain to which Shot Gun Barrels are Subjected with Reasonable Loads of Nitro Powders.

Items Marked ✣ Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory, Ilion, N. Y.

ROACH TRAPS

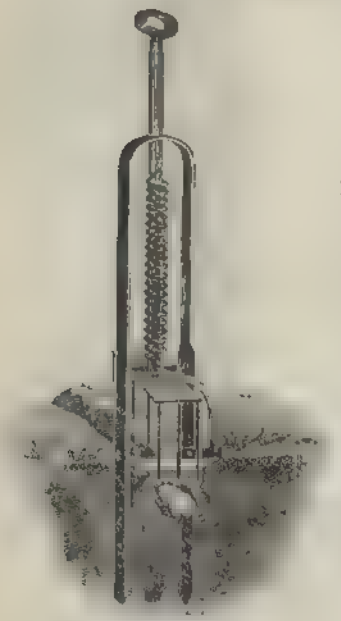
These are the best Traps ever Invented for Catching Roaches. They are Clean and Sanitary and Much More Desirable for Catching a House of these Pests than Insect Powder or Poisons. A little Cheese, Potato, Onion or Banana makes an Excellent Bait and one of these Traps will Catch all the Roaches on the Premises.

Per Dozen

No. M—Black Japanned Wire Cloth Top; Tin Bound Edges; Natural Finish Hardwood Bottom; Diameter of Dome Top 5 inches, Size of Base, 5½x5½ inches, Height over all, 4¼ inches, Weight per Dozen 4½ lbs. **$5 00**

One Dozen in a Box

MOLE TRAPS



REDDICK

Per Dozen

No. RM—Tinned Steel Frame, Prongs and Lever; Japanned Steel Coil Spring; Height Over All 24 inches; Width 4 inches; Six Prongs 4¼ inches Long; Full Directions for Operating with Each Trap; Weight per Dozen 40 lbs. **$14.50**

Half Dozen in a Crate

LITTLE GIANT

Self Setting

Trap is Set by Pulling up Plunger Rod; Trigger Catches Itself

Per Dozen

No. LGM—Cold Rolled Galvanized Steel Frame, Prongs and Lever; Japanned Steel Coil Spring; Height 15 inches, Width 4 inches; Six Prongs 5 inches Long; Weight per Dozen 24 lbs. **$12 00**

Half Dozen in a Crate

GOPHER TRAPS

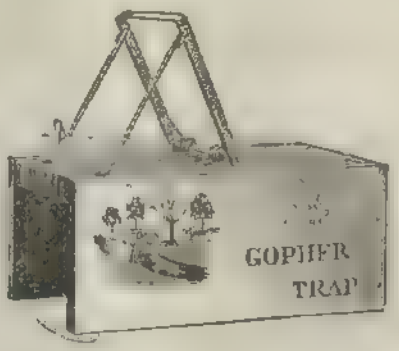
NEWHOUSE

Catches the Animal Around the Neck and Kills Surely and Quickly

Per Dozen

No. G—Tempered Flat Steel Spring; 1 inch wide, Natural Finish; 3 inch Ring; Flat Steel Trigger; Length 6 inches; Height 3½ inches; Weight per Dozen 2¾ lbs. **$3 50**

One Dozen in a Box

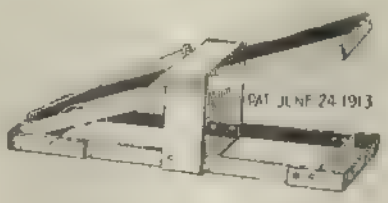


O. K.

Per Dozen

No. OK—Steel Wire Spring; Coppered Steel Jaw; the Trigger and Other Metal Parts are Galvanized Steel; Red Stained Soft Wood Box Strongly Nailed; Length 8¾ inches, Width 4 inches, Height 4 inches, Length Over All 6 inches, Weight per Dozen 8 lbs. **$3 70**

One Gross in a Case



RENKENS SURE CATCH

No Gopher so Large, None so Small, that this Trap Will Not Catch and Hold.

Per Dozen

No. R4—Heavy Steel Wire Spring; Cold Rolled Steel Frame; Black Japanned finish; Steel Wire Trigger; Length 9 inches; Width 2⅞ inches; Height 2⅞ inches; Height over all 4¼ inches; Weight per Dozen, 12 lbs. **$14.50**

One Dozen in a Box

MOUSE AND RAT TRAPS

★DEFIANCE

A Bushel of Mouse Traps

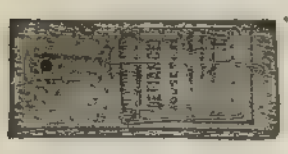
2½ Gross, (360 Traps in each Basket). Traps to Sell Six for 10 Cents. Basket Sells for 50 Cents, Total $6.50.

Net Profit to Dealer 91 per Cent.

Per Bushel

No. 15B—Bushel Mouse Traps $8.50

★DEFIANCE



Coppered Steel Wire Spring, Bail and Lever; Hardwood Trigger Faced with Steel; all Parts Strongly Stapled to Base with Coppered Steel Staples, the Trigger is Very Sensitive and Bait Cannot be Touched without Springing the Trap.

MOUSE

Per Gross

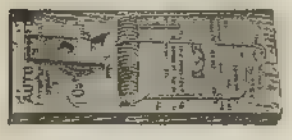
No. 15—1⅞x3⅛ inch Hardwood Base; Weight per Gross 12 lbs... **$4 00**
One Dozen in a Box

RAT

Per Gross

No. 70—3½x7 inches; Hardwood Base; Weight per Gross 69 lbs...**$15 00**
One Dozen in a Box

OUT O'SIGHT



Coppered Steel Wire Spring, Bail and Lever; "Baited" Hardwood Trigger Faced with Tin; all Parts Stapled to Base; Bail Overlaps End of Base when Snapped; Trigger is very Sensitive.

MOUSE

Per Gross

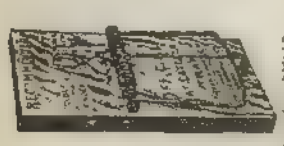
No. 25—1⅞x3⅛ inch Hardwood Base; Weight per Gross 18 lbs...**$14 00**
One Dozen in a Box

RAT

Per Gross

No. 75—3½x7 inches; Hardwood Base, Weight per Gross 63 lbs...**$36 50**
One Dozen in a Box

OFFICIAL



Base made of Heavy Hardwood; Coppered Steel Wire Spring Bail and Trigger; Trigger is extremely Sensitive and Bait cannot be Touched without Springing Trap. Double Action Trigger is instantly released by Either Downward Pressure or Upward Nibble and is therefore sure to Catch.

MOUSE

In Gross Lots $7 ME per Gross. Per Gross

No. OM—Heavy Hardwood Base; Coppered Steel Wire Spring Bail and Trigger; Size of Base 1⅞x3⅞ inches; Weight per Dozen 1 lb..... **$7.00**
One Dozen in a Carton.

RAT

In Gross Lots per Gross. Per Gross

No. OR—Heavy Hardwood Base; Coppered Steel Wire Spring Bail and Trigger; Size of Base 3½x7 inches; Weight per Dozen 3½ lbs **$23.50**
One Dozen in a Carton.

MOUSE AND RAT TRAPS

SQUARE WOOD CHOKER

Red Stained Wood Base; Coppered Steel Springs and Triggers; Height 1⅛ inches.

Per Gross

No. 3—Three Holes; Size 2¼x6¼ inches; Weight per Gross 32 lbs.. .. ..**$12.00**
One Dozen in a Package

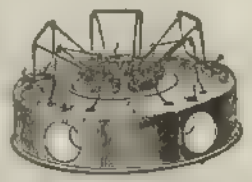
ROUND WOOD CHOKER

Red Stained Wood Base; Coppered Steel Springs and Triggers; Diameter 5¼ inches; Height 1⅛ inches.

Per Gross

No. 4—Four Holes; Weight Gross 48 lbs.....**$16.50**

No. 5—Five Holes; Weight Gross 45 lbs... ..... **21.00**
One Dozen in a Package

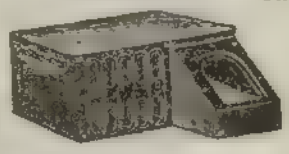


TIN CHOKER

Heavy Seamless Tin Base; Coppered Steel Springs and Triggers; Diameter 4¾ inches; Height 1⅛ inches; ⅞ inch Holes.

Per Gross

No. 50—Five Hole; Weight per Gross 21 lbs.....**$19.00**
One Dozen in a Box



SELF-SETTING

These Traps Catch the Mice Alive, to Kill, Turn Them into a Pail of Water

Per Gross

No. 60—Red Stained Wood Frame, Blued Tin Front, Length 5¼ inches; Width 3¼ inches, Height 2½ inches; Weight per Gross 63 lbs.....**$26.50**
Half Gross in a Case

SECURITY

Made of Galvanized Steel; Oil Tempered Spring Wire and Coppered Wire; Splendid Mechanical Construction; cannot Strike Finger or Foot either in Setting or Releasing; Hair Trigger prevents Stealing of Bait To Set; Cover Opening in Ring with Foot and Press Down. This Raises Hook of Trigger to Lock Foot Plate; will not Rust, Warp or Decay; Sanitary, Safe, Sure and Serviceable.

MOUSE

Per Gross

No. SM—Made of Galvanized Steel; Oil Tempered Spring Wire and Coppered Wire; Size of Base 3¼x1½ inches; Weight per Gross 18 lbs..... **$9.50**
One Dozen in a Box

RAT

Per Gross

No. SR—Made of Galvanized Steel Oil, Tempered Spring Wire and Coppered Wire; Size of Base 6½x3 inches; Weight per Gross 96 lbs.....**$30.00**
One in a Box.

Robertson's Rapid Cut Power Saws

No. 1 Rapid Cut Power Saw

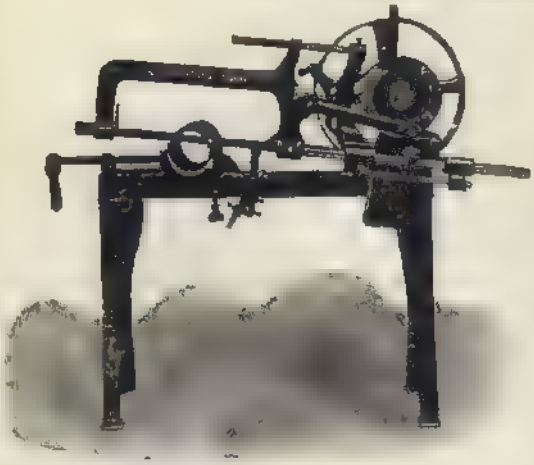


Fig 1451

Cuts round or square metals up to 4 x 4 inches, 12-inch saw. Pulley, 3½ x 14 inches; speed, 45 to 55 revolutions. Net weight, 140 pounds.

This saw is guaranteed in every respect for cutting all kinds of iron within its capacity. In cutting tool steel, it will pay for itself in one week. Just think: 152 cuts of 4-inch bar at a cost of 43 cents.

Thousands in use in the best shops all over the world. Adjustable frames furnished. Weight, 140 pounds.

Price ..... each

No. 3 Power Saw Driven by Electric Motor

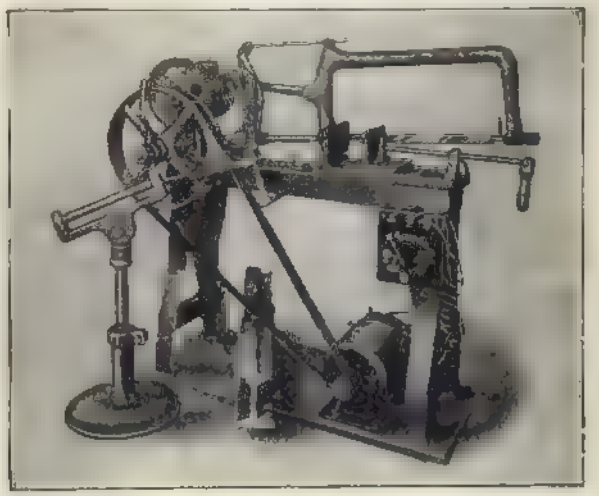


Fig 1452

This cut also shows adjustable bar rest.

Either size machine can be furnished with motor drive.

Always state whether direct or alternating current motors are required, giving volts, cycles and full particulars to avoid delay.

Silver's Improved Power Band Saw

20-Inch Iron Band Wheels

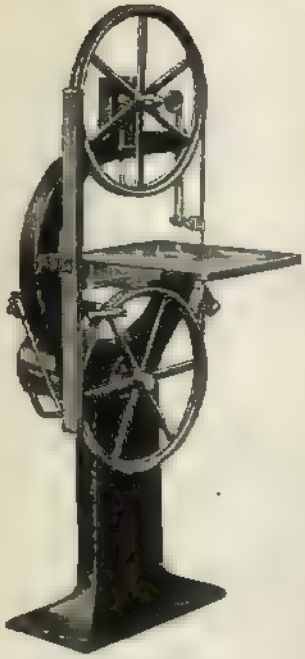


Fig. 1453

Size and Price

20-inch machine, with tight and loose pulleys, weight, crated 390 pounds..... each $40 00

Extra saw blades, 10 feet 5 inches x ¼ inch..... each $1 15

Wright's patent non-friction roller saw guide, extra list .. .. .each $ 6 00

Silver's Planetary Foot Power Band Saw

20-Inch Iron Band Wheels

Size and Price

20-inch machine, foot power only, weight crated, 410 pounds..... each $45 00

Extra saw blades, 10 feet 5 inches x ¼ inch..... each $ 1 15

Wright's patent non-friction roller saw guide, extra list .. ..each $ 6.00

Fig. 1454

SILVER PLATED ON HIGHEST GRADE NICKEL SILVER

★ROGERS & BRO. A-1

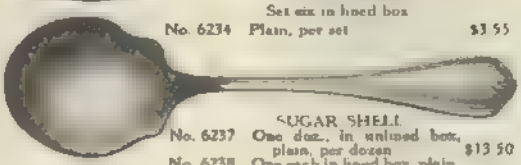
(TRADE MARK)

EVERY PIECE ABSOLUTELY GUARANTEED

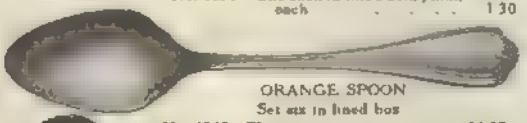
THE GRECIAN PATTERN

BRIGHT FINISH

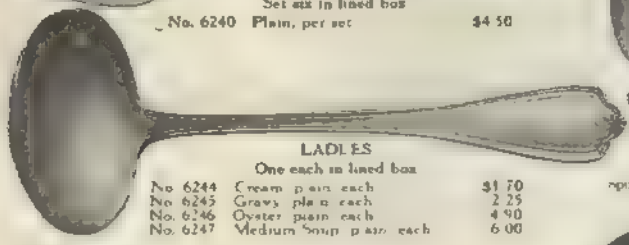
COFFEE SPOON
Set six in lined box
No. 6234 Plain, per set $3 55



SUGAR SHELL
No. 6237 One doz., in unlined box, plain, per dozen $13 50
No. 6238 One each in lined box, plain, each 1 30



ORANGE SPOON
Set six in lined box
No. 6240 Plain, per set $4 50



LADLES
One each in lined box

No. 6244	Cream plain each	$1 70
No. 6245	Gravy plain each	2 25
No. 6246	Oyster plain each	4 90
No. 6247	Medium Soup plain each	6 00

No. 6242
BABY SPOON
One each
in Lined box
Each $6 95
No. 6243
BABY SET
spoon and Food Pusher
Per set $1 90

BUTTER KNIFE, BENT HANDLE
No. 6235 One dozen in unlined box, per doz $15 75
No. 6236 One each in lined box, each 1 50

SUGAR TONGS
No. 6239 One each in lined box, each $2 25

BOUILLON SPOON
No. 6241 Set six in lined box, per set $6 75

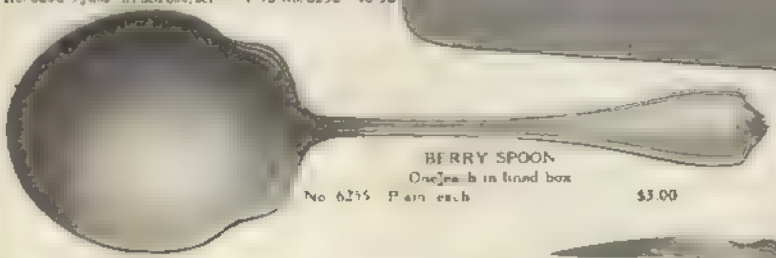
OYSTER FORK
No. 6248 Set six in lined box, per set $4 75

ICED TEA SPOON
One dozen in unlined box
No. 6253 Length 7½ inch, per dozen $9 75

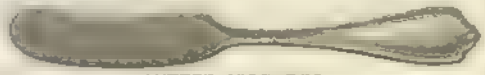
SOUP SPOON

A 1 XII		Triple XI	
No. 6249	1 doz. in unlined box, each	$14 25	No. 6251 $19 50
No. 6250	1 doz. in lined box, set	7 90	No. 6252 10 50

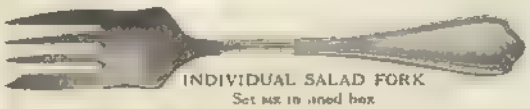
PIE SERVER, HOLLOW HANDLE
No. 6254 Each $4 35



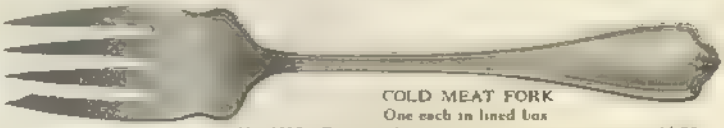
BERRY SPOON
One each in lined box
No. 6255 Plain each $3.00



BUTTER SPREADER
No. 6256 Set six in lined box, per set $6 40



INDIVIDUAL SALAD FORK
Set six in lined box
No. 6257 Plain per set $7 15



COLD MEAT FORK
One each in lined box
No. 6258 Plain each $1 90

Illustrations One-Half Size

CHILD'S SET, KNIFE, FORK, SPOON
No. 6259 In lined box, per set $3.00

BUTTER KNIFE AND SUGAR SHELL
In lined box
No. 6260 Plain, per set $2 75

Illustrations One-Third Size

SILVER PLATED ON HIGHEST GRADE NICKEL SILVER

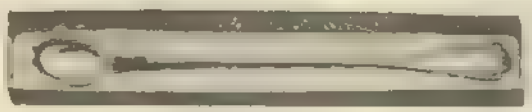
★ROGERS & BRO. A-1

(TRADE MARK)

EVERY PIECE ABSOLUTELY GUARANTEED

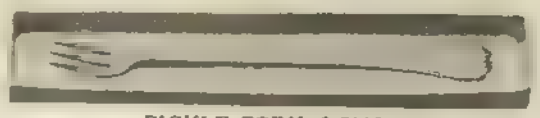
THE GRECIAN PATTERN

BRIGHT FINISH



OLIVE SPOON

No. 6261 One in lined box, each . $1 70



PICKLE FORK, LONG

No. 6262 One in lined box, each $ 1 70
No. 6263 Twelve in unlined box, dozen 18 00

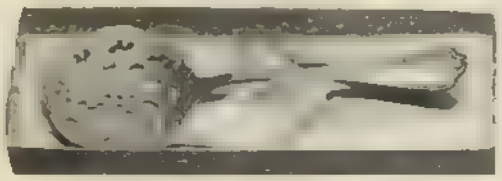
JELLY SHELL

One in lined box

No. 6264 Plain, each... .$2 25

PIE KNIFE

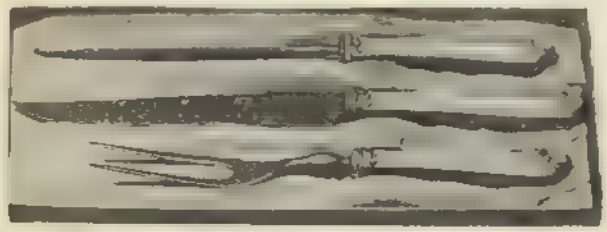
No. 6265 One in lined box, each $3 75



CUCUMBER OR TOMATO SERVER

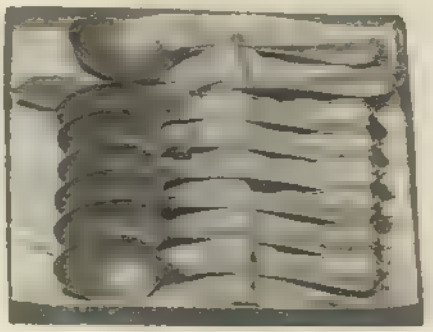
One each in lined box

No. 6266 Plain, each $3 00



No. 6267 Carving Set, three pieces, per set $19 15
No. 6268 Game Set, two pieces, per set. 13 35
No. 6269 Bird Set, two pieces, per set 8 65
No. 6270 Bird Set, three pieces, per set 12 65

Nickel Silver, Silver Soldered, Hollow handles, Steel Blades



No. 6271 Six Tea Spoons, one Butter Knife, one Sugar Shell, per set $6 75

No. 6272 Six Hollow Handle Medium Knives, Six A-1 XII Medium Forks.. } in lined paper case, per set } $21 30
No. 6273 Same in Dessert size... .. " " " 19.70

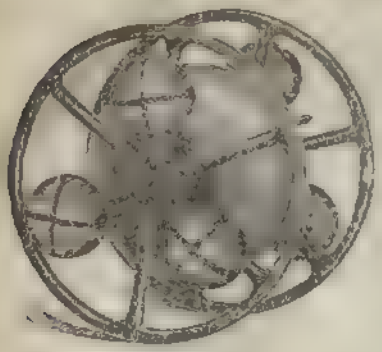
Illustrations One-Third Size

SOLID STEEL KNIVES AND NICKEL FORKS SILVER PLATED

No. 6274 Set, six each, Medium Knives and Forks, per set $10 00
No. 6275 Set, six each, Dessert Knives and Forks, per set 9 70

Put up one-half dozen in box, or set of six each knives and forks in box.

ROLLER CHIMES



Three Nickel Plated Bells on Each Wheel; Two Large Nickel Plated Gongs; Red Cast Iron Wheels, 4 inches in Diameter; 2¼-inch Gongs; 1⅛-inch Bells.

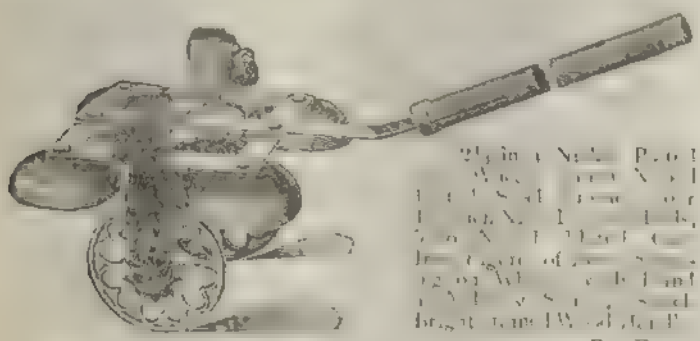
Per Dozen

No. 1436—4½x3¼ Inches; Weight per Dozen 6 lbs..... $4 80
Half Dozen in a Package

2¼-inch Iron Wheels; 2-inch Nickel-Plated Bells; 6-inch Bronzed Iron Heavy Frame, Rustic Pattern; Nickel Plated Double Comic Face Clapper; 18-inch Bright Stained Wood Handle.

Per Dozen

No. 1483—Weight per Dozen, 10 lbs..... $4 50
One Dozen in a Package



2¼-inch Nickel Plated Steel Wheels; 2-inch Nickel Plated Bells; 6-inch Bronzed Iron Heavy Frame, Rustic Pattern; Nickel Plated Double Comic Face Clapper; 18-inch Bright Stained Wood Handle.

Per Dozen

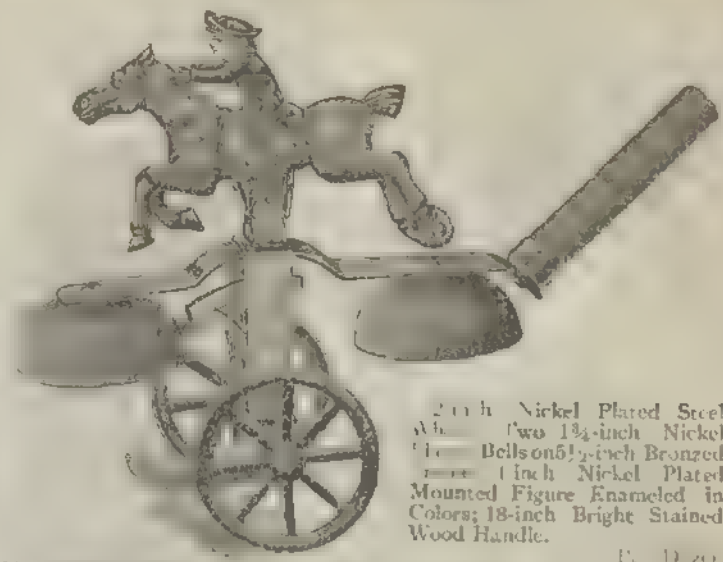
No. 1481—Weight per Dozen, 9 lbs..... $7 50
Half Dozen in a Package

2-inch Nickel Plated Steel Wheels; Two 1¾-inch Nickel Plated Bells; 3½-inch Bronzed Iron Heavy Frame, Rustic Pattern; Nickel Plated Double Comic Face Clapper; 18-inch Bright Stained Wood Handle.

Per Dozen

No. 1472—Weight per Dozen, 5 lbs..... $4 50
One Dozen in a Package

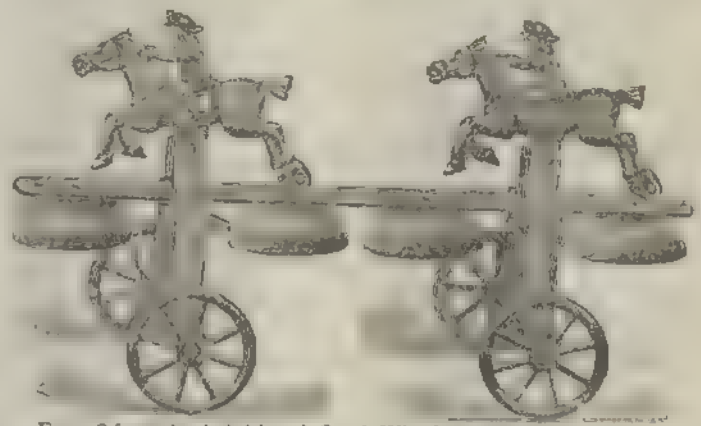
ROLLER CHIMES



2-inch Nickel Plated Steel Wheels; Two 1¾-inch Nickel Plated Bells on 5½-inch Bronzed Iron Heavy Frame, Rustic Pattern; Nickel Plated Double Comic Face Clapper; 18-inch Bright Stained Wood Handle.

Per Dozen

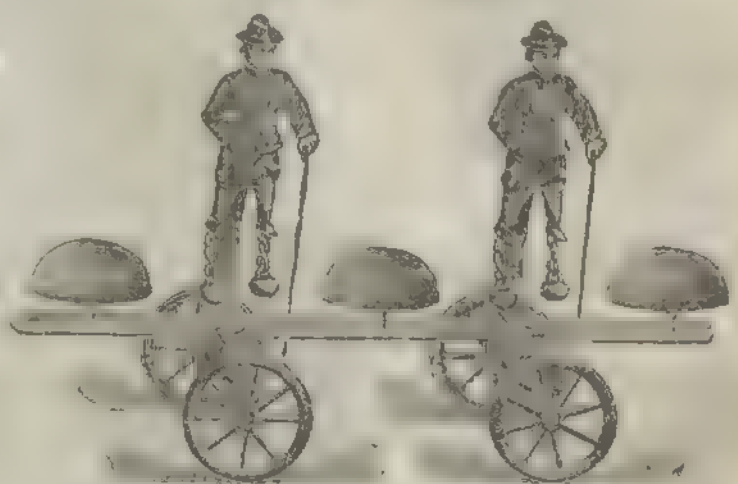
No. 1473—Weight per Dozen, 6 lbs..... $4 50
One Dozen in a Package



Four 2-inch Nickel Plated Steel Wheels on Steel Base 11 inches Long; Four 1¾-inch Nickel Plated Bells; Two Large Movable Mounted Horsemen in Bright Colors.

Per Dozen

No. 1475—Weight per Dozen, 12 lbs..... $11 00
One Dozen in a Package



Four 2-inch Nickel Plated Steel Wheels, on Steel Base 11 inches Long; Three 1¾-inch Nickel Plated Bells; Two Figures of Soldiers 4½ inches High, Connected to Axle so that Figures Dance Jigs as Wheels Turn and Strike Bells with Weights Suspended from Feet.

Per Dozen

No. 1476—Weight per Dozen, 12 lbs..... $11 00
One Dozen in a Package

DRUMS

Low Military Design; 10x5½ inches; One Fibre Head and One Sheepskin Head; Steel Shells, Lithographed in Imitation of Hardwood; Striped Black Steel Hoops; Heavy Cord Tighteners with Heavy Leather Ears; Red, White, and Blue Shoulder Strap with Tinned Hook; 12½-inch Waxed Finish Drum Sticks.

Per Dozen

No. 745—Weight per Dozen, 15 Lbs. **$22.00**

Quarter Dozen in a Package

Low Military Design; 13x6 inches; One Fibre Head and One Sheepskin Head; Varnished Maple Sides; Striped Hardwood Black Hoops; Tinned Iron Hooks and Extra Heavy Cord Tighteners, with Heavy Leather Ears; Red, White and Blue Shoulder Strap with Tinned Hook; 14-inch Varnished Stained Drum Sticks.

Per Dozen

No. 746—Weight per Dozen, 20 Lbs. **$33.00**

Quarter Dozen in a Package

Low Pattern Military Drum; 13x6 inches; One Genuine Calfskin Head and One Sheepskin Head, Nickel Plated Sides; Striped Hardwood Black Hoops; Tinned Iron Hooks with Extra Heavy Cord Tighteners and Heavy Leather Ears; Red, White and Blue Shoulder Strap with Tinned Hook; 14 inch Walnut Stained Drum Sticks

Per Dozen

No. 747—Weight per Dozen, 20 Lbs. **$48.00**

Two in a Package

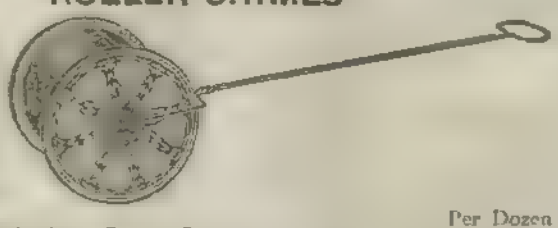
Low Pattern Professional Orchestra Drum, [illegible] inches; Genuine Calfskin Head and Sheepskin Head; Nickel Plated Sides; Black Enameled Hoops, with Nickel Plated [illegible] Nickel Plated Rod Tighteners, [illegible] Adjusting Strings with Key Tightener; Striped Heavy Leather Strap with Hook; 13½-inch Varnished Drum Sticks.

Per Dozen

No. 748—Weight per Dozen, 23 Lbs. **$72.00**

One in a Package

ROLLER CHIMES



Wood Wheels Metal Drum; Handsomely Lithographed in Brigth Colors with Illustrated [illegible] and Jubilee Scenes; Nickel Plated Rods and Key; Red Felt Beaters; Length 23 inches; Weight per Dozen, 7 Lbs.

Per Dozen

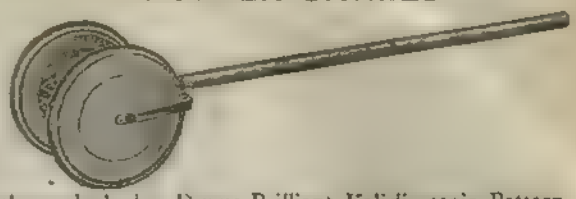
No. 1490—[illegible] inch Drum; Length 23 inches; Weight per [illegible] **$12.00**

Quarter Dozen in a Package

No. 1490—[illegible] inch Drum; Length 23 inches; Weight per Dozen, 7 Lbs. **6.00**

Half Dozen in a Package

ROLLER CHIMES



Deep Resonant Toned Chime; Varnished Heavy Wood Wheels Made in Non-Warping Sections and Veneered Both Sides; Lithographed Tin Drum; Brilliant Kalidioscopic Pattern. Hardwood Handle; Length, 30 inches.

Per Dozen

No. 736—6½x5½ inch Drum; Weight per Dozen, 22 Lbs. . **$12.00**

One in a Package

No. 737—8x7¼ inch Drum, Length 32 inches; Weight per Dozen, 35 Lbs. **21.50**

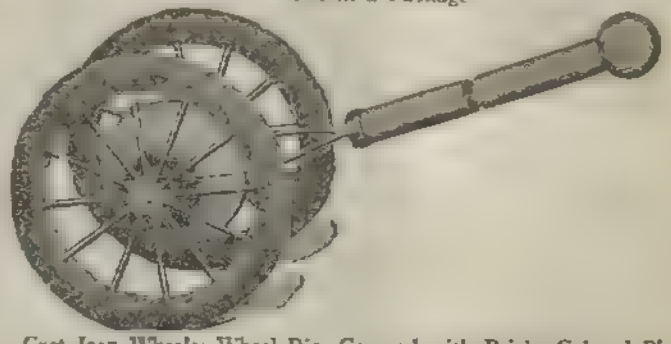
One in a Package

Hobby Horse Finest [illegible] Lithographed Drum, Deep Resonant Tones, Sectional Maple Wheels, Veneered Both Sides; Sectional Maple Horse Head, Veneered Both Sides, with Red, White and Blue Bridle; Handsomely Lithographed Drum, with Brilliant Kaleidoscopic Pattern; Deep Resonant Tones.

Per Dozen

No. 738—7½x5½ inches; Length 40 inches; Weight per Dozen, 35 Lbs. **$21.60**

One in a Package



Cast Iron Wheels; Wheel Rim Covered with Bright Colored Plush to Prevent Damaging the Floor; Heavy Steel Axle; Nickel Plated Steel Bell; 18-inch Hardwood Handle, with Knob.

Per Dozen

No. 1484—3-inch Wheels, Assorted Red, Blue and Pink Plush; 2-inch Gong; Length Over All, 22½ inches; Weight per Dozen, 6 Lbs. **$7.50**

One Dozen in a Package

Per Dozen

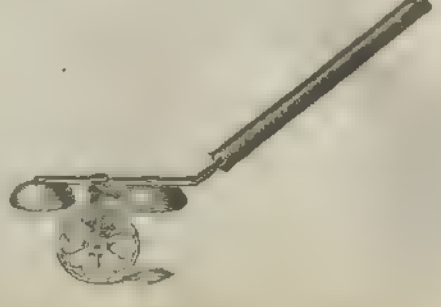
No. 1485—4-inch Wheels; Assorted Red, Blue and Pink Plush [illegible]-inch Gong; Length Over All, 24 inches; Weight per Dozen, 9 Lbs. **$12.50**

Half Dozen in a Package

Per Dozen

No. 1487—7-inch Wheels; Assorted Yellow and Green Plush; 3½-Inch Gong, Length Over All, 23 inches; Weight per Dozen, 21 Lbs. **$20.00**

One in a Package



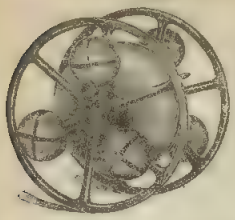
Nickel Plated; 2¼-inch Iron Wheels; Two Bells Steel Frame Length 6 inches; 18-inch Bright Stained Wood Handle.

Per dozen

No. 1482—Weight per Dozen, 3½ Lbs. **2.60**

Half Dozen in Package

ROLLER CHIMES



Three Nickel Plated Bells on Each Wheel; Two Large Nickel Plated Gongs; Red Cast Iron Wheels, 3¼ inches in Diameter, 2¼-inch Gongs; 1½-inch Bells,

Per Dozen

No. 1486—4¼x3¼ Inches; Weight per Dozen 6 lbs..... **$4 80**
Half Dozen in a Package

2¼-inch Iron Wheels; 2-inch Nickel-Plated Bells, 6-inch Bronzed Iron Heavy Frame, Rustic Pattern; Nickel Plated Double Comic Face Clapper; 18-inch Bright Stained Wood Handle.

Per Dozen

No. 1483—Weight per Dozen, 10 lbs..... **$4 50**
One Dozen in a Package

2½-inch Nickel Plated Iron Wheels; 6-inch Nickel Plated Steel Frame; Four 1¾-inch Nickel Plated Bells; Two Nickel Plated Cast Iron Figures of Boys Standing on Wheels, with Hand at Military Salute; 18-inch Bright Stained Wood Handle.

Per Dozen

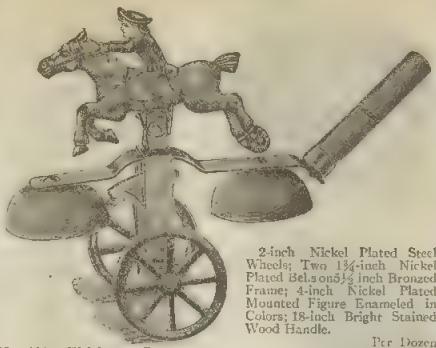
No. 1481—Weight per Dozen, 9 lbs..... **$7 50**
Third Dozen in a Package

2-inch Nickel Plated Steel Wheels; 1¾-inch Nickel Plated Bells; Bright Enameled Negro Figure, 3½ inches High, Mounted on Frame; 18-inch Bright Stained Wood Handle.

Per Dozen

No. 1472—Weight per Dozen, 5 lbs..... **$4 50**
One Dozen in a Package

ROLLER CHIMES



2-inch Nickel Plated Steel Wheels; Two 1¾-inch Nickel Plated Bells on 5½ inch Bronzed Frame; 4-inch Nickel Plated Mounted Figure Enameled in Colors; 18-inch Bright Stained Wood Handle.

Per Dozen

No. 1473—Weight per Dozen, 6 lbs..... **$4.50**
One Dozen in a Package

Four 2-inch Nickel Plated Steel Wheels on Steel Base 11 inches Long; Four 1¾-inch Nickel Plated Bells; Two Large Movable Mounted Horsemen in Bright Colors.

Per Dozen

No. 1475—Weight per Dozen, 12 lbs..... **$11 00**
Third Dozen in a Package

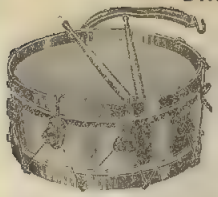
Four 2-inch Nickel Plated Steel Wheels, on Steel Base 11 inches Long; Three 1¾-inch Nickel Plated Bells; Two Figures of Soldiers 4½ inches High, Connected to Axle so that Figures Dance Jigs as Wheels Turn and Strike Bells with Weights Suspended from Feet.

Per Dozen

No. 1476 Weight per Dozen, 12 lbs..... **$11 00**

Third Dozen in a Package

DRUMS



Low Military Design; 10x6¾ inches; One Fibre Head and One Sheepskin Head; Steel Sides. Lithographed in Imitation of Hardwood; Striped Black Steel Hoops; Heavy Cord Tighteners with Heavy Leather Ears; Red, White, and Blue Shoulder Strap with Tinned Hook; 12½-inch Waxed Finish Drum Sticks.

Per Dozen

No. 745—Weight per Dozen, 15 Lbs. **$22.00**

Quarter Dozen in a Package

Low Military Design; 13x6 inches; One Fibre Head and One Sheepskin Head; Varnished Maple Sides; Striped Hardwood Black Hoops; Tinned Iron Hooks and Extra Heavy Cord Tighteners, with Heavy Leather Ears; Red, White and Blue Shoulder Strap with Tinned Hook; 14-inch Varnished Stained Drum Sticks

Per Dozen

No. 746—Weight per Dozen, 20 Lbs. **$33.00**

Quarter Dozen in a Package

Low Pattern Military Drum: 13x6 inches; One Genuine Calfskin Head and One Sheepskin Head; Nickel Plated Sides; Striped Hardwood Black Hoops; Tinned Iron Hooks with Extra Heavy Cord Tighteners and Heavy Leather Ears; Red, White and Blue Shoulder Strap with Tinned Hook; 16-inch Walnut Stained Drum Sticks.

Per Dozen

No. 747—Weight per Dozen, 20 Lbs. **$48.00**

Two in a Package

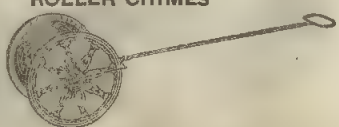
Low Pattern Professional Orchestra Drum; 12x4½ inches; Genuine Calfskin Head, and Sheepskin Head; Nickel Plated Sides; Black Enameled Hardwood Hoops, with Nickel Plated Bands; 24 Nickel Plated Rod Tighteners with Key; Fine Vibrating Strings with Key Tightener; Striped Heavy Shoulder Strap with Hook; 13½ inch Varnished Drum Sticks.

Per Dozen

No. 748 Weight per Dozen, 23 Lbs. **$72.00**

One in a Package

ROLLER CHIMES



Wood Wheels Metal Drum, Handsomely Lithographed in Bright Colors; with Illustrated Rhymes and Jingle. Iron Steel Wire Handle; Deep Resonant Tones.

Per Dozen

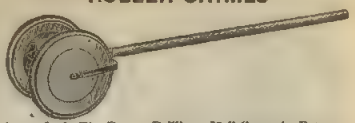
No. 1431—5x5 inch Drum; Length 23 inches; Weight per Dozen 11 Lbs. **$12.00**

Quarter Dozen in a Package

No. 1430—5x4 inch Drum; Length 23 inches; Weight per Dozen, 7 Lbs. **6.00**

Half Dozen in a Package

ROLLER CHIMES



Deep Resonant Toned Chime; Varnished Heavy Wood Wheels Made in Non-Warping Sections and Veneered Both Sides; Lithographed Tin Drum; Brilliant Kalidioscopic Pattern; Hard wood Handle; Length, 30 inches.

Per Dozen

No. 736—6½x5¾ inch Drum; Weight per Dozen, 22 Lbs. **$12.00**

One in a Package

No. 737—8x7¼ inch Drum, Length 32 inches; Weight per Dozen, 35 Lbs. **21.50**

One in a Package

Hobby Horse, Finest Finish; Large ½-inch Rubber Tires; Sectional Maple Wheels, Veneered Both Sides; Sectional Maple Horse Head, Veneered Both Sides, with Red, White and Blue Bridle; Handsomely Lithographed Drum, with Brilliant Kaleidoscopic Pattern; Deep Resonant Tones.

Per Dozen

No. 738 7½x5¾ inches; Length 40 inches; Weight per Dozen, 35 Lbs. **$21 60**

One in a Package

Cast Iron Wheels; Wheel Rim Covered with Bright Colored Plush to Prevent Damaging the Floor; Heavy Steel Axle; Nickel Plated Steel Bell; 18-inch Hardwood Handle, with Knob.

Per Dozen

No. 1484—3-inch Wheels, Assorted Red, Blue and Pink Plush; 2-inch Gong; Length Over All, 22½ inches; Weight per Dozen, 6 Lbs. **$7.50**

One Dozen in a Package

Per Dozen

No. 1485—4-inch Wheels; Assorted Red, Blue and Pink Plush; 2-inch Gong; Length Over All 24 inches; Weight per Dozen, 9 Lbs. **$12.50**

Half Dozen in a Package

Per Dozen

No. 1487—7-inch Wheels; Assorted Yellow and Green Plush, 3½-inch Gong; Length Over All, 23 inches; Weight per Dozen, 21 Lbs. **$30.00**

One in a Package

Nickel Plated; 2¼-inch Iron Wheels; Two Bells; Steel Frame; Length 6 inches; 18 inch Bright Stained Wood Handle.

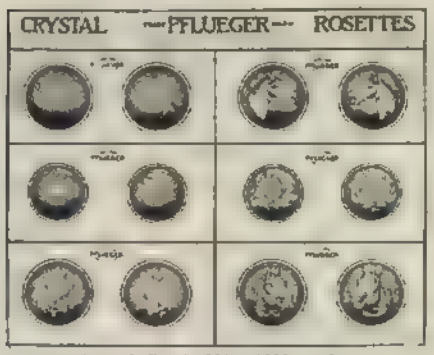
Per dozen

No. 1482—Weight per Dozen, 3¼ Lbs. **2.60**

Half Dozen in Package

ROSETTES

CRYSTAL ROSETTES ON DISPLAY CARDS



Size of Card, 8⅛ x 10⅛ inches.

Colored Glass, Brass Rims

No. D—Assorted Horsehead, Dog and Floral Design, 1¾ in diameter.
Per card $1.80

Clear Glass, Nickel Plated Rims

No. 101—Assorted Horsehead and Floral Design, 1¾ in. diameter...Per card $1.20
Six Pairs on a Card. Five Cards in a Box

ROSETTES

Fluted

Size inches	1¾	2	2¼
	Per Gross		
No. 770—Polished brass	$6.75	8.75	11.50
No. 772—N. P. brass	6.75	8.75	11.50

1¾, One Gross; 2 and 2¼, Half Gross in a Box

Beaded

Size inches	1¾	2	2¼
	Per Gross		
No. 2360—Polished brass	$6.75	8.75	11.50
No. 2362—N. P. brass	6.75	8.75	11.50

1¾ inch, One Gross in a Box
2 and 2¼ inch, One Half Gross in a Box

Imperial

Size inches	2	2¼
	Per Gross	
No. 2200—Polished brass	$9.20	11.85
No. 2202—N. P. brass	9.20	11.85

2 inch, One Third Gross in a Box
2¼ inch, One Sixth Gross in a Box

ROSETTES AND ORNAMENTS

ROSETTES

Ajax

Size, inches	2	2¼
	Per Gross	
No. 4040—Polished brass	$10.40	14.40
No. 4042—N. P. brass	10.40	14.40

Quarter Gross in a Box

ORNAMENTS

Heart

Lead Finish

No. 5010—Brass, size 1¾ in...Per dozen $1.50
No. 5012—N. P., size 1¾ in...Per dozen 1.50
Three Dozen in a Box

Star and Ring

Stamped

Size inches	2	2¼
No. 240—Brass	Per dozen $1.60	2.15
No. 242—N. P.	Per dozen 1.60	2.15

One Dozen in a Box

HAIR PLUMES

Red curled hair, nickel plated cap and hook.

Length, inches	10	12	14	16
Per dozen pairs	$5.00	6.00	7.50	8.50

Twelfth Dozen Pair in a Package

SPREADERS

Zylonite rings, straps and loops with snaps riveted on.

Red, white and blue rings, white loops.
No. 303—11 inches over all....Per dozen $8.00
One Dozen in a Box

White rings and red loops
No. 402—12½ inches over all..Per dozen $10.00
One Dozen in a Box

White rings and loops, 5 rings.
No. 501—15½ in. over all....Per dozen $12.00
White rings and loops, 7 rings.
No. 701—21 in. over all.....Per dozen $17.00
Red, white and blue rings, white loops, 5 rings.
No. 503—15½ in. over all....Per dozen $12.00
One Dozen in a Box

Black strap, white trimmings
No. C1—14 inches over all....Per dozen $12.00
One Dozen in a Box

Black strap, white trimmings
No. C3—9 inches over all.....Per dozen $10.00
One Dozen in a Box

SPREADER STRAPS

Black leather, creased team, with japanned buckle

With One Duranoid Ring
No. 1—Size ⅝ x 8 in.....Per dozen pair $7.50

Without Ring
No. 01—Size ⅝ x 8 in.....Per single doz $2.50
One Dozen in a Bundle

HARNESS TRIMMINGS

SLIDE LOOPS

Zylonite

Width, inches	⅛	⅜	¼	⅞	1
Red....Per gross	$2 40	2 40	3 00	3.50	4.20
White..Per gross	2.40	2 40	3.00	3.50	4 20
Blue ...Per gross	2 40	2.40	3.00	3.50	4.20

One Gross in a Box

Metal

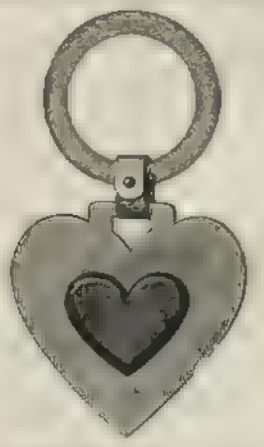
Heavy seamless brass

Width, inches	⅝	¾
No 440 Polished brass	$4 00	4 50
No 442 Nickel plated brass	4 00	4 50

Per Gross

One Gross in a Box

CENTER RING WITH PENDANT



Zylonite white with small red heart laid on
No 6H 7½ inches long.....Per dozen $7 00
One Dozen in a Box

HIP DROP

Zylonite white with small red heart laid on
No. 15—12 inches long.....Per dozen $9.25
One Dozen in a Box

MARTINGALE RINGS

Zylonite

White—Nos.	000	00	0	1	2
Inside diam, in.	1	1⅛	1¼	1⅜	1½
Per gross	$7 50	8 50	10 00	11 50	12 50

White—Nos.	3	4	5	6
Inside diam. in.	1⅝	1¾	1⅞	2⅛
Per gross	$14 00	16 00	18 00	20 00

Red—Nos.	000R	00R	0R	1R	2R
Inside diam., in.	1	1⅛	1¼	1⅜	1½
Per gross	$8.50	10.00	11.50	13.50	14.50

Red—Nos.	3R	4R	5R	6R
Inside diam., in.	1⅝	1¾	1⅞	2⅛
Per gross	$16 00	18.50	20.50	23 00

Blue—Nos.	000B	00B	0B	1B	2B
Inside diam., in.	1	1⅛	1¼	1⅜	1½
Per gross	$8 50	10 00	11.50	13.50	14.50

Blue—Nos.	3B	4B	5B	6B
Inside diam., in.	1⅝	1¾	1⅞	2⅛
Per gross	$16 00	18.50	20 50	23 00

Sixth Gross in a Box

[illegible]

White—Nos.	0	1	2	3	4	5
Inside diam. in.	1¼	1⅜	1⅝	1¾	1⅞	2
Per gross	$4 50	5 00	5.70	6 40	8 00	9 80

Red—Nos.	0R	1R	2R	3R	4R	5R
Inside diam., in.	1¼	1⅜	1⅝	1¾	1⅞	2
Per gross	$4 50	5.00	5.70	6.40	8.00	9.80

Blue—Nos.	0B	1B	2B	3B	4B	5B
Inside diam., in.	1¼	1⅜	1⅝	1¾	1⅞	2
Per gross	$4 50	5.00	5 70	6.40	8.00	9 80

Quarter Gross in a Box

STANDARD OVAL SPOTS

Nickeled

Nos.	203	204	205	206	207	208
Diam. in.	⅜	½	⅝	¾	⅞	1
Per gross	$0.58	0.86	1.10	1.90	2.32	2.88

[illegible]

Nos.	1103	1104	1105	1106	1107	1108
Diam. in.	⅜	½	⅝	¾	⅞	1
Per gross	$0.56	0.73	0.93	1.30	1.63	2.00

One Gross in a Box

CONCORD FLAT SPOTS

Lead filled with flat prong

Nickel

No. 501N—						
Diam. in.	⅜	½	⅝	¾	⅞	1
Per gross	$1 90	2.40	2 72	3 04	3 50	4.08

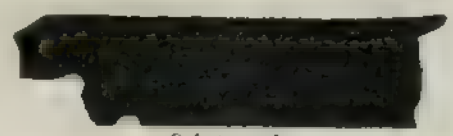
Brass

No. 501—						
Diam in	⅜	½	⅝	¾	⅞	1
Per gross	$1.90	2.40	2.72	3.04	3.50	4.08

⅜, ½ and ⅝ inch, One Gross in a Box
¾, ⅞ and 1 inch, Half Gross in a Box

[illegible] LEATHER

Oak tanned
Sides. Weight 15 to 35 lbs. ..Per lb .....



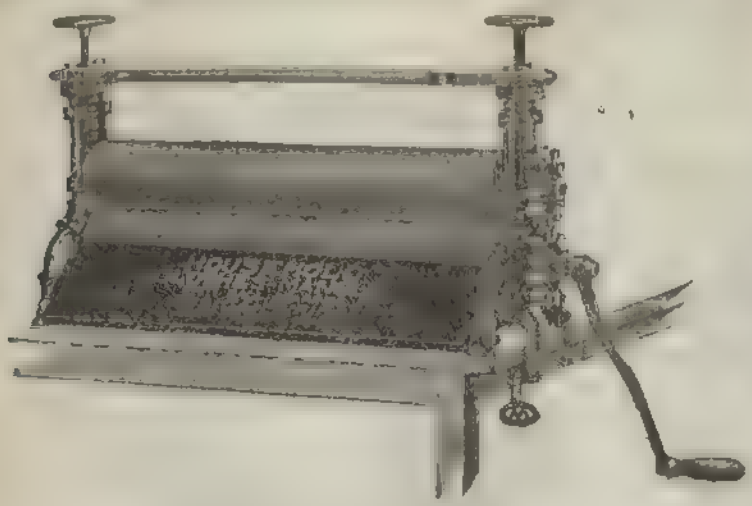
Oak tanned
Backs. Weight 11 to 30 lbs. ....Per lb.....

HARNESS TOOLS

Patent hollow handle draw gauge
No. 51½.....Each $2.20

CLOTHES MANGLES

For Wringing Sheets, Pillow Slips, Table Cloths, Bed Spreads, Towels, Napkins and Buttonless Articles; Pieces that Have Been Pressed are More Healthful than when Finished by a Hot Iron, for the Meshes are Left Open, Whereas, the Hot Iron Closes them; Articles Pressed Retain their Original Whiteness and are Never Soiled by Scorching.



HOUSEHOLD—COLD ROLL

Especially Suited for Family Use and Where the Laundry Work is not very Heavy.

Each

No. H124—24x3½ inch Hard Maple Rolls; **Ball Bearings**; Enclosed Spiral Steel, Adjustable Tension Springs; Painted Iron Frame and Adjustable Table Clamps; Width of Front and Rear Tables 6 inches; Handle Crank 12 inches; Weight in Case 80 lbs. **$12 70**

One in a Case

ROYAL—GAS HEATING

For Family Use; Ball Bearing

Can be Clamped to any Ordinary Table by Single Thumb Screw and Connected by a Rubber Tube to a Gas Burner; Adjustable for Natural or Artificial Gas.

Each

✚ **No. R524**—24x3½ inch Rolls; Nickel Plated Steel Lower Roll, with Gas Burner Extending Full Length Inside; Hardwood Upper Roller Covered with Cloth; Width of Front and Rear Tables 6 inches; Purchase Gears Operate the Rolls, Causing them to Turn with very Little Power; Cast Iron Frame and Gears, Painted Vermilion and Blue; Height 17 inches, Space Required 32x12 inches; Sweep of Handle 20 inches; Weight in Case 79 lbs. **$34.20**

One in a Case

UNIVERSAL COLD ROLL

Double Geared; Easy Turning

Adapted for Family Hotel and Restaurant Use

Each

✚ **No. U24**—24x3½ inch Hard Maple, Smooth Finished Rolls; Width of Front Table 10 inches, Rear Table 12 inches, Hardwood Natural Finish Legs, Enclosed Spiral Steel Adjustable Tension Coil Springs, Painted Iron Frame, Height 40 inches, Floor Space Required 30x20 inches, Sweep of Handle 22 inches, Weight in Case 180 lbs. **$40 00**

ECLIPSE COLD ROLL

Adapted for Use in Large Families, Hotels and Small Laundries. The Double Gearing Makes Easy Turning and is Enclosed to Prevent Accident to the Operator.

Each

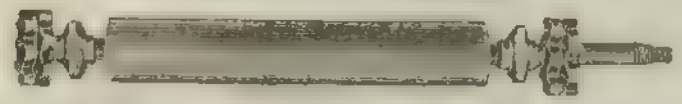
✚ **No. E190**—24x5¼ inch Selected Hardwood, Smooth Finished Rolls; Width of Front and Rear Tables 12 inches; Strongly Braced Cast Iron Frame Painted Green; Mounted on Casters; Spiral Steel Adjustable Tension Coil Springs; Height 46 inches; Floor Space Required 34x29 inches; Sweep of Handle 22 inches; Weight in Case 275 lbs. **$63 40**

One in a Case

Items marked ✚ Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory, Woonsocket, R. I., or Chicago, Ill.

WRINGER ROLLS

All Rolls are Numbered on the Ends



Upper Rolls can be Made from Lower Rolls by Sawing off the Shaft

High Grade White Rubber, Vulcanized to Shaft; **Warranted for One Year**; Hardened Steel Balls and Ball Cups; Galvanized Malleable Iron Double Cogs Attached.

FOR BALL BEARING WRINGERS WITH OUTSIDE GEARS

For Flat Steel Elliptical Spring Wringers

No. 13L—Lower Roll, 10x1¾ inches; Weight per Dozen 60 lbs. ..... Per Dozen **$34 50**

Will Fit American Wringers
Columbian, No. 190
Gem, Nos. 380 and B380
Household, Nos. 180 and B180
Imperial, No. 380
Novelty, Nos. N390 and B390
Rival, No. 190
Royal, Nos. 560, 590 and B590
Universal, Nos. 360, 380, B360, B380 and S380

Will Fit Lovell Wringers
Bicycle, Nos. B110 and B110
[illegible]

No. 14L—Lower Roll, 11x1¾ inches; Weight per Dozen 75 lbs. ..... Per Dozen **$38 00**

Will Fit American Wringers
Columbia, No. 191
Gem, Nos. 381 and B381
Household, Nos. 181 and B181
Imperial, No. 181
Novelty, Nos. 391, N391 and B391
Rival, No. 191
Royal, Nos. 561, 591 and B591
Tip Top No. T181
Universal, Nos. 361, 381, B361, B381 and S381

Will Fit Lovell Wringers
[illegible] 111B
[illegible] 50, B

+ No. 15L—Lower Roll 12x1¾ inches; Weight per Dozen 78 lbs. ..... Per Dozen **$41.50**

Will Fit American Wringers
Columbian, No. 192
Gem, Nos. 382 and B382
Household, Nos. 182 and B182
Imperial, No. 182
Novelty, Nos. 392, N392 and B392
Rival, No. 192
Royal, Nos. [illegible]2, 592 and B592
Universal, Nos. [illegible]62, 382 and B382

Will Fit Lovell Wringers
[illegible] 12B
[illegible] 12B

FOR BALL BEARING SPIRAL SPRING WRINGERS

No. 23L—Lower Roll, 10x1¾ inches; Weight per Dozen 69 lbs. ..... Per Dozen **$34 50**

Will Fit Shapleigh Hdw. Co.'s
Newhouse, No. N177

Will Fit American Wringers
Gem, Nos. 117, B117 and 127
Keystone, Nos. K317, B317 and 327
Princeton, No. 117
Royal, Nos. 517, B517 and 527

Will Fit Lovell Wringers
Bicycle, Nos. 310 and 310B
Guarantee, Nos. 580 and 580B

No. 23L—Lower Roll, 11x1¾ inches; Weight per Dozen 75 lbs. ..... Per Dozen **$38 00**

Will Fit Shapleigh Hdw. Co.'s
Newhouse, No. N178

Will Fit American Wringers
Gem, Nos. 118, B118 and 128
Keystone, Nos. K318, B318 and 328
Princeton, No. 118
Royal, Nos. 518, B518 and 528

Will Fit Lovell Wringers
Bicycle, Nos. 311 and 311B
Guarantee, Nos. 581 and 581B

+ No. 24L—Lower Roll, 11x1¾ inches; Weight per Dozen 78 lbs. ..... Per Dozen **$41.50**

Will Fit American Wringers
Gem, Nos. 119, B119 and 129
Keystone, Nos. K319, B319 and 329
Princeton, No. 119
Royal, Nos. 519, B519 and 529

Will Fit Lovell Wringers
Bicycle, Nos. 312 and 312B
Guarantee, Nos. 582 and 582B

FOR BALL BEARING IRON FRAME WRINGERS

No. 16L—Lower Roll, 10x1¾ inches Weight per Dozen 40 lbs. ..... Per Dozen **$34.50**

Will Fit American Wringers
[illegible]
Gem, No. 137
Relief, No. 337
Royal, No. 537

Will Fit Lovell Wringers
Bicycle, No. 122
Guarantee, No. 122

No. 17L—Lower Roll, 11x1¾ inches; Weight per Dozen 45 lbs. ..... Per Dozen **$38 00**

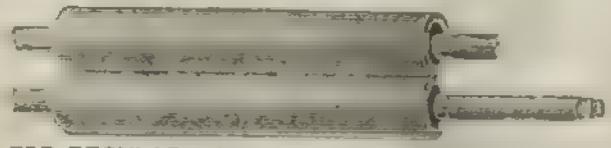
Will Fit American Wringers
Crescent, No. C138
Gem, No. 138
Relief, No. R338
Royal, No. R538

Will Fit Lovell Wringers
Bicycle, No. 123
Guarantee, No. 123

+ No. 18L—Lower Roll, 11x1¾ inches; Weight per Dozen 50 lbs. ..... Per Dozen **$41 50**

Will Fit American Wringers
Crescent, No. C139
Gem, No. 139
Relief, No. 339
Royal, No. R539

Will Fit Lovell Wringers
Bicycle, No. 124
Guarantee, No. 124



FOR REGULAR BEARING IRON FRAME WRINGERS

No. 34L—Lower Roll, 10x1¾ inches; Weight per Dozen 42 lbs. ..... Per Dozen **$29.50**

Will Fit American Wringers
Crescent, No. 120
Daisy, Nos. 100 and 110
Iron Queen, No. 2
Marvel, No. 10
Old Reliable, Nos. 2 and 22
Star, No. 10
Superior, Nos. 200 and 210
Superb, Nos. 2 and 22

No. 35L—Lower Roll, 11x1¾ inches; Weight per Dozen 45 lbs. ..... Per Dozen **$33.00**

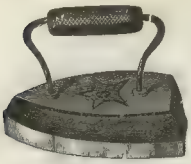
Will Fit American Wringers
Daisy, Nos. 101 and 111
Old Reliable, Nos. 3 and 23
Star, No. 11
Superior, Nos. 201 and 211
Superb, Nos. 3 and 23

+ No. 36L—Lower Roll, 12x1¾ inches; Weight per Dozen 50 lbs. ..... Per Dozen **$36.50**

Will Fit American Wringers
Daisy, Nos. 102 and 112
Old Reliable, Nos. 4 and 24
Superior, Nos. 202 and 212
Superb, Nos. 4 and 24

Items Marked + Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Woonsocket, R. I., or Chicago, Ill.

COMMON.



Cast iron head and handle; wrought iron shank; natural finish; polished face and edges.

Nos.	C5	C6	C7	C8	C9
Weight each, lbs.	5	6	7	8	9
Per Cwt.	$21.50	20.00	20.00	20.00	20.00

IN CASES.

Nos.	C68	C79
Ass't. weight in case, lbs.	6 to 8	7 to 9
Per cwt.	$19.00	19.00

One hundred pounds in a case.

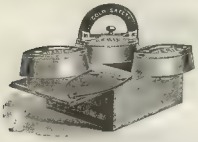
TAILORS' GEESE.

Black japanned, nickel plated bottom; iron handle

Nos	TG12	TG14	TG16	TG18	TG20	TG22	TG24
Weight, lbs.	12	14	16	18	20	22	24
Per 100 lbs.	$22.00	22.00	22.00	22.00	22.00	22.00	22.00

In bulk.

MRS. POTT'S.



Three nickel plated cast iron cores; cast iron retinned top plate; detachable handle with hazelwood grip; ornamental japanned stand.

Per Set

No. 150—In sets of one each Nos. 1, 2 and 3 cores; weight per set, about 14 lbs. $1.88

Six sets in a case

SENSIBLE.

A set consists of three irons, one stand and adjustable handle

Solid irons. Per Set

No. 25—Nickel plated, aluminum top, black japanned handle; weight per set, 17 pounds..... $2.00

Half dozen sets in a case.

ASBESTOS.

SPECIAL QUANTITY PRICE.

To dealers purchasing 3 dozen Asbestos Sad irons of Nos. 70, 100 and 60, at one time, either singly or assorted, we will make the price 5% less than regular. This 5% discount will also apply to orders amounting to $53.00 or more of Dover Mfg. Co. line of goods going forward in a single shipment.

Please bear in mind that the extra 5% applies to orders consisting of 3 dozen or more irons purchased at one time; previous purchases are not to be considered.

Per Dozen Sets

No. 70 - Asbestos **Laundry Set**, consisting of one handle and hood complete, two 7-pound oval cores one 6-lb oval core and one asbestos covered stand. $28.80

One set in a box.

Half dozen sets in a case; weight 115 lbs.

Per Dozen Sets

No. 100—Asbestos **Laundry Set**, consisting of one handle and hood complete, two 7 pound oval cores, one 7 lb. square heel polishing core and one asbestos covered stand. $31.20

One set in a box.

Half dozen sets in a case; weight 118 lbs.

Per Dozen

No. 10—Asbestos tourist iron; a small iron for light work, consisting of hood, handle, ¼-pound core and stand... $4.00

One in a pasteboard carton.

One dozen in a case, weight 28 pounds.

DOVER.

Per Set

No. 60—**Dover Sad Iron Sets**, consists of one nickel plated hood with handle and lock complete, three oval highly polished cores and asbestos covered stand, 6x6 ins.; weight of iron with hood attached 4½ lbs.; weight per dozen sets, 180 lbs..... $1.80

In lots of six dozen.....

In lots of three dozen.....

Less than three dozen lots...

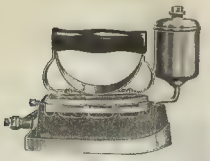
Six sets in a case.

EXTRAS.

	Per Dozen
No. 71—Laundry Hoods, fit Nos. 72, 82, 70 and 100 cores..	$10.40
No. 72—Laundry Cores, 6-lb.....	6.40
No. 73—Laundry Stands, pressed steel with heavy asbestos covering; size 7x7 inches.....	4.00
No. 74—Handle Springs, fits Nos. 70, 72, 82, 100, 40 and 50 irons.....	2.40
No. 75—Wooden Handles only, fits Nos. 70, 82, 72 and 100 irons.....	2.00

In bulk.

ROYAL, GASOLINE.



Simple, practical and durable; easy to operate. Heat can be regulated instantly.

Heated by gasoline which is generated into gas to supply the burner. The burner extends the full length of the iron, giving the entire bottom an even temperature.

The lid or top is made in two sections, separated by asbestos which keeps the handle cool. The handle is again protected by a shield. It never gets hot no matter how hot the iron is heated.

The heat is regulated with a wrench and can be instantly changed to suit the wishes of the operator.

Made of iron and steel, bottom and edges highly polished and nickel plated; fuel tank made of brass, nickel plated; black enameled wood handle grip.

Each

No. R—Royal Gasoline Sad Iron; weight each, 6½ lbs....**$4.25**

One in a carton, complete with wrench and full instructions for operating

COMFORT, GASOLINE.

Two point, self heating gasoline iron. Fuel capacity, ¾ pint; will burn 5 hours with one filling. Base is an iron casting, perfectly moulded, double pointed, heavily nickel plated. Handle is always cool. Tank and iron nickel plated.

Each

Comfort Gasoline Sad Iron—Weight each, 8 lbs.; complete with pump, lighter, funnel, extra washers and instructions.....**$5.00**

One in a carton

DOMESTIC, ELECTRIC.

The leaf type separable heating unit is insulated with mica and connected to terminal posts with heavy brass connectors; terminal posts are rigidly fastened to top of iron and are removable.

Iron is fully nickel plated and highly polished; handle is ebonized finish. Each iron is equipped with extra quality cord, with socket plug and detachable plug for attaching to iron, also a double deck safety stand.

Each

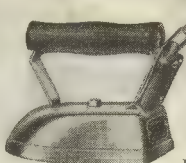
Domestic—110 Volts; length of cord, 6 feet; size of face, 3⅞x6½ inches; height, 5 inches; weight each, 6 lbs....**$7.00**

One in a box, six in a carton.

DOMANCO, ELECTRIC.

Heavy sheet steel hood, formed to prevent radiation of heat from interior of iron. A heat reservoir of solid iron is bolted to the heating element and extends into the space formed by the hood; contact posts are rigidly attached to this plate.

Heating element consists of special resistance wire imbedded in a composition which is a perfect electric insulator; readily conducts heat; prevents over heating of wire; protects wire from oxidation; saves current. Finished, base polished bright, exposed metal parts nickel plated, black enameled handle.



Each

No. 4—Domanco; 110 volts; size of face, 3⅝x6¼ ins.; weight each, 6 lbs.; complete with 6-foot feed cord, attachment and detachable plug and one two-deck steel stand.....**$7.70**

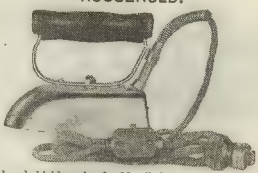
One in a carton.

Each

No. 475—Domanco; 110 volts; size of face, 3⅝x6¼ inches; weight, 8 lbs.; complete with 6-foot feed cord, equipped with C/H Feed Thro switch and attachment plug and one two-deck steel stand.....**$7.70**

One in a carton

HOUSEHOLD.



Hood and shield made of cold rolled strip steel, highly polished and nickeled; rubberoid handle, bolt full length to hold to handle support.

Heating element consists of many feet of Nichrome wire, imbedded in a refractory composition, all formed in pattern cast iron, under hydraulic pressure and hermetically sealed by an especially heavy heat retaining clamp plate. Complete with 6-foot feed cord, equipped with C/H Feed Thro switch and C/H two-piece socket plug, also cord encircled next to iron with a special cord protecting spring; three-deck nickeled steel stand, may be used as a small stove, curling iron heater; waxer and cleaner.

Each

No. 675—Household; 110 volts; size of face, 3⅝x6¼ inches; weight complete, 6 lbs.....**$9.44**

One in a carton.

For Electric Push Button Switches, see page 1981.

Cemcoat

The Enamel-like Wall Coating

Cemcoat is furnished in either Gloss or Flat.
Cemcoat has the combined virtues of enamel and paint.
It presents a tile-like finish.
It is washable, sanitary and durable.
Cemcoat should be used for all municipal buildings such as Schools, Bath Houses, Police Stations, Jails, etc.
Particularly adapted for safety lines on pavements.

Write for literature, color card, testimonials, etc.

Department 27

L. SONNEBORN SONS, Inc.
264 Pearl Street, New York

RAPID FIRE

Business to-day is a rapid-fire proposition.

We've got to have people and machines that are capable of the very highest efficiency.

Royal Master Model No. 10—$100.

The Royal Typewriter is built with this fact in mind.

It is built for the rapid-fire, strenuous business of the time.

When you buy a ROYAL, you get a typewriter which is built on the understanding that you expect to keep it in service for many years.

ROYAL TYPEWRITER COMPANY
INCORPORATED
Royal Typewriter Bldg., 364-366 Broadway New York
Branches and Agencies the World Over

THE GAMEWELL FIRE ALARM TELEGRAPH CO.

"Registered U. S. Patent Office"
Manufacturers of
Fire Alarm and Police Signal TELEGRAPHS
For
Municipalities and Private Parties

The Gamewell system of to-day is the outcome of the combined inventive genius and mechanical skill of many whose valuable services the company has been able to secure during the past fifty-seven years, in pursuance of its policy of meeting at any cost the requirements of the varied conditions existing in different localities.

Correspondence Solicited.

General Office and Works:
Newton Upper Falls, Mass.

Everything for the Playground

PROGRESSIVE CITIES USE

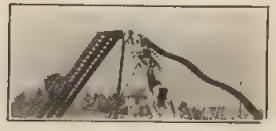
THE FUN-FUL LINE

PLAYGROUND EQUIPMENT

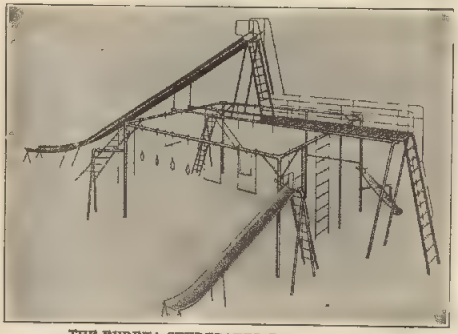
Write for free Booklet

HILL-STANDARD CO.

216 Fun-Ful Ave., Anderson, Ind.



All Steel Playground Apparatus



THE EUREKA STUDEBAKER PARK COMBINATION

THE EUREKA LINE

Swings, Giant Strides, Flying and Traveling Rings, Teeter Boards and Ladders, Aluminum and Maple Slides, Park Settees and Lawn Swings, Merry-Go-Rounds, Horizontal Ladders and Combinations.

Cat. No. 16 Full Outfits And Fittings Only

The Ashland Mfg. Company

Dept. 14 Ashland, Ohio

To so form the life of our youth that they need never be reformed is indeed a great achievement

Eureka **E**quipment **U**tility **U**nexcelled **R**enowned **R**ectitude **E**fficient **E**conomical **K**iddies **K**ind **A**ll-Steel **A**pparatus

BICYCLE HANDLE BAR GRIPS

★RUGBY

All Bicycle Grips 3½ inches Long

⅞ inch; Best Quality Cowhide, Stitched on Wood Core; Sunk Seam; Nickel Plated Ferrule.

Per Dozen Pair

No. 25W—Weight per Dozen Pair 1¼ lbs..... **$5.50**

One Dozen Pair in a Box

⅞ inch; Hard Leather Wound on Wood Core; Nickel Plated Ferrule; Stained Hardwood Tip.

Per Dozen Pair

No. 15NF—Weight per Dozen Pair 1¾ lbs..... **$3 00**

One Dozen Pair in a Box

Hard Leather Wound on Wood, Cork Hardwood Tip and Ferrule.

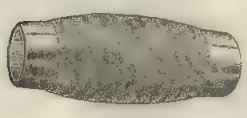
Per Dozen Pair

No. 13LW—⅞ inch, Natural Finished Tip and Ferrule..... **$2.20**

No. 13LS—⅞ inch; Stained Tip and Ferrule..... **2.50**

No. 14L—⅞ inch, Stained Tip and Ferrule, Weight per Dozen Pair 1¾ lbs..... **$2 20**

One Dozen Pair in a Box

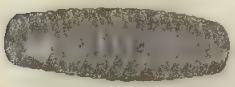


⅞ inch; Hard Leather Wound on Wood Core; Nickel Plated Ferrule and Tip.

Per Dozen Pair

No. 12LN—Weight per Dozen Pair 1¾ lbs. **$3 60**

One Dozen Pair in a Box



Black Flexible Moulded Rubber; Nickel Plated Ferrule, Scored Grip; Length 3⅛ inches; Diameter of Hole ¾ inch.

Per Dozen Pair

No. 30R—Weight per Dozen Pair 4¼ lbs..... **$4.00**

One Dozen Pair in a Box

BULL DOG

The very latest Style Motor Type Bicycle Grip Made; Very Strong and Durable; Its Shape affords a Bull Dog Grip, which is of Great Assistance in Hill Climbing.

Per Dozen Pair

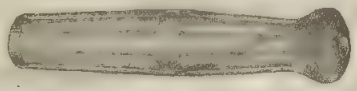
No. BD—Made over a core of light wood, covered with best Cow Hide Leather sunk into a groove in core leaving a smooth surface; Nickeled Brass Ferrules; Length 6 inches; Diameter of Hole ⅞ inch.; Weight per Pair 5 Ounces..... **$9.60**

One Dozen Pair in a Box

BICYCLE HANDLE BAR GRIPS

★RUGBY

All Bicycle Grips 3½ inches Long



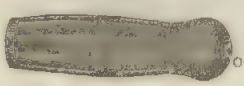
BOY SCOUT

Per Pair

No. 40B—Black Flexible Rubber Moulded over Cotton Fabric; Length 6 inches; Diameter of Hole ⅞ inch; Weight per Pair 1 lb..... **$1.00**

No. 20B—Similar to No. 40B, Cheaper Grade, Made of Black Flexible Rubber Moulded over Cotton Fabric; Length 6 inches; Diameter of Hole ⅞ inch; Weight per Pair ¾ lb ..... **.60**

One Pair in a Box



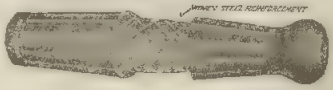
Black Flexible Rubber; Mounted Over Cotton Fabric.

Per Dozen Pair

No. 10R—Length 4 inches; Diameter of Hole ⅞ inch; Weight per Dozen Pair 3 lbs..... **$4 00**

One Dozen Pair in Box

MOTORCYCLE HANDLE BAR GRIPS

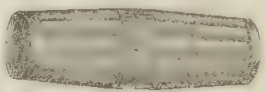


MOTORCYCLE GRIPS

Per Pair

No. 1MG—Black Flexible Rubber Moulded over Cotton Fabric; Woven Steel Reinforcement in Center Strengthens the Grip at its Weakest Point; Extra Heavy Lining of Cotton Fabric throughout; Length 8 ⅞ inches; Diameter of Hole 1 inch; Weight per Pair 1 lb..... **$1.30**

One Pair in a Box



SHORT MOTORCYCLE GRIPS

Black Flexible Rubber Moulded over Cotton Fabric; Length 4¼ inches, Diameter of Hole 1⅛ inches.

Per Pair

No. 2MG—Weight per Pair, 7 ounces..... **$0 90**

One Pair in a Box

HANDLE BAR BUFFERS

One Piece of Rubber with Concealed Spring which Clamps Buffer Firmly in Place; Length 1¾ inches.

Per Dozen

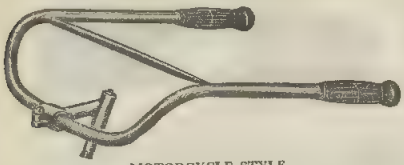
No. 10—Weight per Dozen ¾ lb..... **$2 00**

Two Dozen Pairs

HANDLE BARS

★RUGBY NON-RUST

Genuine Drop Forged Stems; High Grade Steel Tubing Heavily Nickel Plated over Copper; ⅞ inch Stems with Expanders; Without Grips



MOTORCYCLE STYLE

Has the Appearance of Handle Bar on a Motorcyle; Gives a Very Sensitive Control of Bicycle; New and Attractive; The Cross Bar Reinforcement not only Strengthens but also makes it more Classy than any other Bicycle Handle Bar on the Market.

Each

No. M—Complete with Handle Bar Stems (Less Grips); Made of ⅞ inch Tubing; Extreme Width 21⅜ inches; Drop or Raise 4½ inches; Straight Grip Ends 12 inches Long; Diameter of Stem above Top Rail 1 inch; Below the Shoulder ⅞ inches; 1 Knurled Ferrule; 4½ inch Forward Extension; Length of Stem under Head 2½ inches with Expander; Wt. Complete 4 lbs **$4.00**

Loose

EXTENSION

Each

No. RER—⅞-inch Tubing; Width 19 inches; Drop 2½ inches; Forward Extension 2½ ins.; Without Grips; Weight 1⅞ lbs.. **$1.80**

No. RE2—⅞ in. Tubing; Width 22 inches; Drop 3 in.; Forward Extension 2½ ins.; Without Grips. Wt. 2 lbs..... ..... **2.00**

Loose

EXTENSION

⅞ inch Tubing; Drop 6 inches; Forward Extension 3 inches; 3 inch Forward Bend.

Each

No. R24—Width 24 ins; Without Grips; Wt. 2 lbs..... ..... **$2.60**

Loose

ADJUSTABLE

Each

No. RA—⅞-inch Tubing. Width 20 inches; Drop 3 inches Forward Bend 1¼ inches; Weight 1¼ lbs., Without Grips . . **$1 70**

Loose

JUVENILE

Each

No. JRA—⅞ inch Tubing; Width 16 inches Drop 2 inches; Forward Bend 1½ inches; Weight 1¼ lbs.; Without Grips . **$1 70**

Loose

BOX EXTENSION

⅞ inch Tubing; Drop 6 inches; Forward Extension 2½ inches; No Forward Bend.

Each

No. RB22—Width 22 inches; Weight 1¾ lbs.; Without Grips.. **$2.20**

No. RB24—Width 24 inches; Weight 2 lbs.; Without Grips.... **2.70**

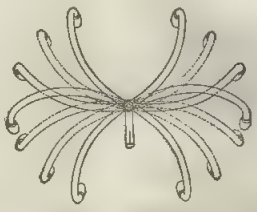
Loose

KELLY RACING

Each

No. 4KE—Steel Tubing, Nickel Plated and Polished; ⅞ inch Tubing; Width 23 inches, when Level 25 inches; Forward Extension 2½ inches; Forward Curve 3 inches; ⅞ inch Stem with Expander, Especially Designed and Made for Club and Racing Men; Weight each 2¼ lbs.; Without Grips..... **$3.10**

Loose



KELLY ADJUSTABLE

Each

No. 8KE—Steel Tubing, Nickeled and Polished; ⅞ inch Tubing; Extreme Width 27⅛ inches Adjusting to 12 inches; Extreme Drop or Raise 12 inches; When 24 inches Wide has a 6 inch Drop or Raise; Forward Extension 2½ inches; ⅞ inch Drop Forged Stem with Expander; Weight each 2¼ lbs; Without Grips.... **$3 30**

Loose

HANDLE BAR EXTENSIONS

Each

No. 10B—Forward Extension 4½ inches; Same Handle Bar Stem as Used on No. M Handle Bars..... **$1.40**

Loose

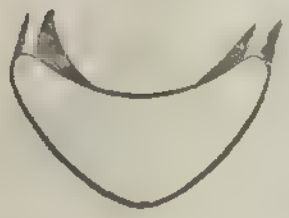
WOOD RIMS

★RUGBY

FOR CLINCHER TIRES

	Per Pair	Per Pair Crate Lots
No. 30K—Plain Finish; 28x1⅜ and 28x1⅝ in; for G. & J. Tires	$2.30	$1.90
No. A17J—Black with Four Gold Hair Lines, 28x1⅜ and 28x1⅝ in.; for G. & J. Tires	2.30	1.90
No. A18J—Black with ½ in. Blue Center and Four Gold Hair Lines; 28x1⅜ and 28x1⅝ in. for G. & J. Tires	2.80	2.50
No. 62J—French Gray (Aluminum Shade), with Two Blue and Two Red Hair Line Stripes; 28x 1⅜ in.; 32 Holes; for G. & J. Tires	2.70	2.40
No. 66J—French Gray (Aluminum Shade) with Two Blue and Two Red Hair Line Stripes; 28x 1⅜ in.; 36 Holes; for G. & J. Tires	2.70	2.40
No. 19J—Black with Red Centers; Two Gold Hair Line Stripes; 28x1⅜ in. and 28x1⅝ in.; 32 or 36 Holes; for G. & J. Tires	2.80	2.30
No. M365J—Blue with Red Center, Two Gold Hair Line Stripes; 28x1⅜ inches; 36 Holes; For G. & J. Tires	2.80	2 40
No. 15J—Orange with Black Center; Two Red Stripes; 28x1⅜ inches; 32 or 36 holes; for G. & J. Tires	2.80	2.30

Weight per Pair 3 lbs. Loose.
Twelve and one-half pair in a case.



★RUGBY

FOR CEMENTED TIRES

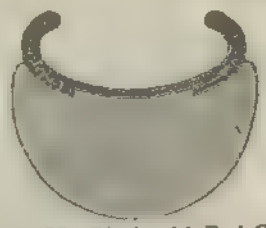
	Per Pair	Per Pair Crate Lots
No. 20K—Plain Finish; 20, 24, 26 and 28x1⅜ inches	$1.90	$1.50
No. 21K—Mahogany Finish; 28x1⅜ inches	2.40	2.00
No. A17—Black with Four Gold Hair Lines; 28x1⅜ in	2.40	1.90
No. A18—Black with ½ in. Blue Center and Four Gold Hair Lines; 28x1⅜ inches	2.70	2.30
No. 62—French Gray; Aluminum Finish with Two Blue and Two Red Hair Line Stripes; 28x1⅜ inches.; 32 Holes	2.50	2.10
No. 66—French Gray; Aluminum Finish with Two Blue and Two Red Hair Line Stripes; 28x1⅜ inches; 36 Holes	2.50	2.10
No. 19C—Black with Red Centers; Two Gold Hair Line Stripes; 20x1⅜, 24x1⅜ and 26x1⅜ inches; 28 Holes	2.50	2.10
No. M307—Green with Black Center; Two Gold Hair Line Stripes; 26x1⅜ inches, 28 Holes	2.60	2.20
No. M365C—Blue with Red Center; Two Gold Hair Line Stripes; 28x1⅜ inches, 32 or 36 Holes	2.60	2.20
No. 15C—Orange with Black Center; Two Red Hair Line Stripes; 28x1⅜ inches, 32 or 36 Holes	2.50	2 10

Weight per Pair 2½ lbs. Loose.

No. 20K Fourteen Pair in a Crate; All Others, twelve and one-half Pair in a Crate.

NOTE—When Ordering Wood Rims, always specify Size and number of Holes Wanted. For Rugby, Shapleigh Special and Wonder Rims, see Pages 2927 to 2930.

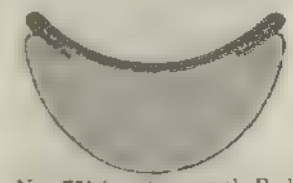
WOOD RIMS



STEEL-LINED
FOR CLINCHER TIRES

	Per Pair
No. 22SJ—Black with Red Center; Two Gold Hair Line Stripes; 28x1⅜ inches, 32 Holes; for G. & J. Tires	$4 50
No. 28SJ—Black with Red Center; Two Gold Hair Line Stripes; 28x1⅜ inches; 36 Holes; For G. & J. Tires	4 50
No. 32SJ—French Gray with Two Blue and Two Red Hair Line Stripes, 28x1⅜ inches; 32 Holes, For G. & J. Tires	4.50
No. 38SJ—French Gray with Two Blue and Two Red Hair Line Stripes, 28x1⅜ inches; 36 Holes; For G. & J. Tires	4.50
No. 42SJ—Orange with Black Center; Two Red Hair Line Stripes; 28x1⅜ inches; 32 Holes for G. & J. Tires	4 50
No. 46SJ—Orange with Black Center; Two Red Hair Line Stripes; 28x1⅜ inches; 36 Holes for G. & J. Tires	4.50

Weight per Pair 5½ lbs. Loose.
Twelve and one-half Pair in a Case.



STEEL-LINED
FOR CEMENT TIRES

	Per Pair In Case Lots
No. 75SC—Black with Red Center, Two Gold Hair Line Stripes; 28x1⅜ inches, 32 or 36 Holes	$4 50
No. 65SC—Orange with Black Center, Two Red Hair Line Stripes; 28x1⅜ inches; 32 or 36 Holes	4 50
No. 55SC—Gray with Two Blue and Two Red Hair Line Stripes; 28x1⅜ inches; 32 or 36 Holes	4.50
No. 72FJ—Wood, Steel Lined; Dark Green Finish; One Gold and One Red Hair Line Stripes; 28x1⅜ in.; 32 Holes; for G. & J. Tires.	4.50
No. 76FJ—Wood, Steel Lined; Dark Green Finish; One Gold and One Red Hair Line Stripes; 28x1⅜ in.; 36 Holes; for G. & J. Tires.	4.50

Weight per Pair 4 lbs.
Twelve and one-half pair in a case.

NOTE When Ordering Wood Rims, always specify Size and **Number of Holes wanted. For Rugby, Shapleigh Special and Wonder Rims, see Pages 2927 to 2930.**

STEEL RIMS

ROLLED EDGE

	Per Pair
No. 50C—For Cemented Tires; Enameled Black; 28x1⅜ inches, 32 and 36 Holes; Weight per Pair 5¼ lbs.	$3 00
No. 80C—For Cemented Tires; Black with Red Center, Two Gold Stripes, 28x1⅜ inches, 32 and 36 Holes, Weight per Pair 5¼ lbs.	3 30
No. 100C—For Cemented Tires; Orange and Black; Two Red Hair Line Stripes, 28x1⅜ inches; 32 and 36 Holes. Weight per Pair 5¼ lbs.	3.30
No. 120C—For Cemented Tires; Gray, 28x1⅜ inches; 32 and 36 Holes; Weight per Pair, 5¼ lbs.	3.30
No. 60J—For G. & J. Clincher Tires; Enameled Black, 28x1⅜ Inches; 32 and 36 Holes; Weight per Pair 5½ lbs.	3.30
No. 70J—For G. & J. Clincher Tires; Black with Red Center; Two Gold Stripes; 28x1⅜ inches; 32 and 36 Holes; Weight per Pair 5½ lbs.	3.60
No. 90J—For G. & J. Clincher Tires; Orange and Black 28x1⅜ inches; 32 and 36 Holes; Weight per Pair 5½ lbs.	3.60
No. 110J—For G. & J. Clincher Tires; Gray, 28x1⅜ inches; 32 and 36 Holes; Weight per Pair 5½ lbs.	3.60

Loose.

BUILT UP WHEELS

We Build these Wheels in Our Own Shop; They are Trued and Ready to go in Bicycles without Tires; First Class in Every Particular.

FRONT WHEELS
With Plain Rims

	Each
No. 1F—With Rugby Hub; Wt. 2½ lbs	$4 30
No. 4F—With Corbin Hub; Wt. 2¼ lbs	4.50

REAR WHEELS
With Plain Rims

	Each
No. 1R—With Rugby Hub; Weight 2¾ lbs	$4.50

REAR WHEELS WITH COASTER BRAKE
Plain Rims

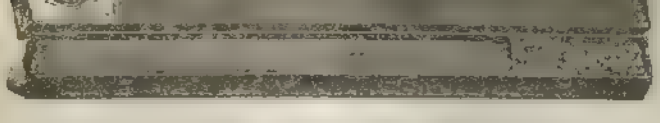
	Each
No. 1D —New Departure Brake; Weight 3⅛ lbs	$10.00
No. 9D —Corbin Duplex Brake; Weight 4½ lbs	10 00
No. 10M —Morrow Brake; Weight 4¼ lbs	10 00
No. 12A —Atherton Brake, Weight 4¼ lbs	10 00
No. 14T —Coroin Two Speed Brake, Weight 5½ lbs	19.00

Loose

EXTRA	Each.
For Mahogany Finish Rims	Add $0 24
For Fancy Rims	Add .36
For Special Rims	Add .50
For G. & J. and Clincher Rims	Add .24
For Wood Steel Lined	Add .50

NOTE—Unless Otherwise Specified, We Always Send 28x1½ ins. with Plain Rim. For Built-Up Wheels for Rugby and Shapleigh Special and Wonder Bicycles, See Pages 2927 to 2930.

SPOKES AND NIPPLES



★RUGBY NON-RUST

Rugby Spokes are Manufactured especially for us of an Extra Fine Grade of Wire, and are Highly Nickel Plated and Polished over Copper. These Spokes will Relieve the Dealer of any Trouble to which he may be Subject on account of Inferior Quality of Spokes and Nickeling. Rugby Spokes are Swaged, Headed, Bent, Threaded Complete with ⅜ inch Nipples.

	Per 100
No. 1—14-16 Gauge; 11¾, 12 and 12⅛ inches long	$2.20

NO. 2 GRADE

	Per 100
No. 2—14-16 Gauge; 8⅛, 10⅛, 11⅛, 11¾, 11⅞, 12 and 12⅛ in. long	$1.70

All 100 in a Box. Weight per 100 about 1¼ lbs.

NOTE—When Ordering be Careful to State Length Desired. We Do Not Break Boxes

NIPPLE WRENCHES

VICTOR

	Per Dozen
No. 102V—Nickel Plated, Knurled Edge, 1⅞ inch Diameter; Fits Any Nipple; Weight per Dozen, 14 ozs.	$3 30

One Dozen on Easel Back Display Card.

NEVERSLIP

Cast Iron, Nickel Plated; Dull Finish Body; Polished End; Fits Any Nipple.

	Per Dozen
No. NS—Size 2¼x1¾ inches; Weight per Dozen 2 lbs.	$3.00

One Dozen in a Box

BABY

Cast Iron, Nickel Plated; Dull Finish Body; Polished End; with Split Ring to Attach to Key Ring; Fits any Nipple.

	PerDozen
No. B—Size 1¼x¾ inches; Weight per Dozen 8½ ozs.	$2.40

One Dozen on a Card

PERFECT

Drop forged Steel Case Hardened Fits any Nipple.

	Each
No. 1P—Small Bicycle Size—3 inches; Weight 2 ozs.	$0 90
No. 2P—Large Bicycle Size—3½ inches; Wt. 3 ozs.	1 00
No. 3P—Small Automobile Size—3½ inches; Weight 6 ozs.	1.20

Twelve in a Box

B & M

A Practical Nipple Grip, simple and Effective in operation. The Jaws Grip the Spoke Nipple firmly without marring the shoulder. Made of Hardened Steel, Finished in White Nickel.

	Per Dozen
No. BM10—Bicycle size; Weight per Dozen 2½ lbs.	$8.00

Twelve in a Box

NIPPLE WASHERS

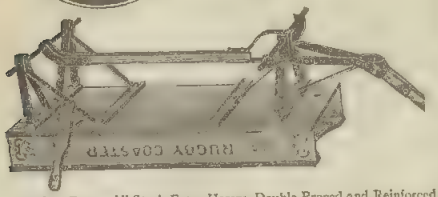
	Per 1000
No. 1—Regular Standard; Saw Teeth; Weight per 1000, 18 ozs.	$0.90
No. 2—Same size and shape as No. 1, but without the saw teeth; Weight per 1000, 24 ozs.	1.00

Packed 1000 in a box

COASTER WAGONS

★RUGBY

Wheels—Extra Heavy Wide Tire, Diameter 10 inches, Roller Bearing, Self Contained Bearings (cannot Fall Out), Machine Riveted Spokes of Exact Length, Tubular Roller Bearing Hubs, Bright Red Enameled.



Running Gear—All Steel, Extra Heavy, Double Braced and Reinforced; Heavy Axles; Fifth Wheel Has Double Plates Giving Equal Bearing; Hickory Reach Connects Front and Rear Gear, Distributing Strain, and Prevents Spreading Under Excessive Load; Gears Enameled Black.

Giant Construction
Heavy All-Steel Gears and Wheels
Roller Bearings
Hickory Stretcher
Handsomely Finished

Made to Withstand Abuse and Give Long Service Under Extremely Severe Conditions; No Wooden Bolsters to Crack or Become Wobbly; No Wooden Wheels to Crack or Dry Out, Has Heavy All Steel Wheels, Most Enduring; Braced and Protected at Every Point; Handsome and Durable Finish—A Wagon to Outlast the Boy.

Body Made of Selected Thoroughly Seasoned White Ash; Mortised Corners; Removable Sides and Ends; Straight Grained Handle to Match Body with Black Enameled Steel Grip, Hickory Reach; Front and Rear Gears Assembled Complete; Bright Red Enameled 10 inch Wheels; Glossy Black Enameled Gears; Body Finished in Natural Grain, Filled, Varnished and Decorated.

With Heavy Steel Tires	Per Dozen
No. 60RC—Body 28x13 inches; Weight per dozen 300 lbs	$79.00
No. 70RC—Body 34x14 inches; Weight per dozen 390 lbs	89.00
No. 80RC—Body 38x16 inches; Weight per dozen 420 lbs. Sixth Dozen in a Crate	101.00
With Heavy 5-8 inch Rubber Tires	**Per Dozen**
No. 61RT—Body 28x13 inches; Weight per dozen 300 lbs	$101 00
No. 71RT—Body 34x14 inches; Weight per dozen 390 lbs	11[illegible]
No. 81RT—Body 38x16 inches; Weight per Dozen 420 lbs Sixth Dozen in a Crate	126 00

COASTER WAGONS

OVERLAND

A Coaster Wagon with Perfect Steering Mechanism, which Operates Equally Well with Express Box on or off. Equipped with Hand Brake; Large and Strong Malleable Fifth Wheel; Hard Maple Pole; Attractively Finished.

Body—White Ash Bottom with Removable Express Box.

Gear—Steel; Channel Steel Arch Construction.

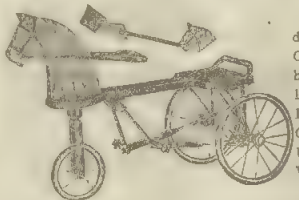
Axles—Round Steel ½ inch.

Wheels Steel Rims and Tires with Iron Hubs, Hard Steel Roller Bearing 9 16 inch Hard Maple Spokes.

	Per Dozen
No. H1A—Size of Body 14¼x36 inches; Wheels 8 inches; Weight per Crate 56 lbs	$96.00
No. H2A—Size of Body 14¼x36 inches; Wheels 11 inches; Weight per Crate 72 lbs.	108 00
No. H3A—Size of Body 16¼x40 inches; Wheels 11 inches, Weight per Crate 82 lbs Sixth Dozen in Crate	120.00

NOTE—Weights given are approximate, but they will not vary 3 lbs., more or less.

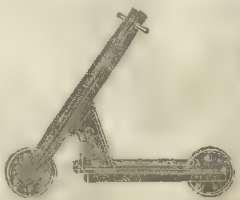
CYCLETTES



Suitable for Small Children, and Up to 10 Years Old. Can Be Propelled by Rider and Steered Like a Horse, or Steering Bridle May be Turned Over Horse Head and Used to Pull Like a Wagon.

Dapple Gray Horse Head; Bright Red Enameled Seat Board 9½x24½ inches; Gold Bronze Decorations; Black Enameled Steel Running Gear, Seat Back and Bridle, Red Enameled Wheels; Nickeled Plated Hub Caps on Rear Wheels; Back Rest Affords Handy Method to Attach Wagon or Cart.

	Each
No. HS—Height to Seat Board 11¾ inches; ⅝ inch Rubber Tires Diameter Rear Wheels 10 inches, Front Wheel 6 inches. Four in a Crate; Weight per Crate 70 lbs.	$10.00



GOCYCLES

A [illegible] for Boys [illegible], Affords [illegible] Outdoor Exercise [illegible] Muscle Still at Rest, with the slightest chance of Fall or Fracture. Absolutely Safe, as it Can be Stopped Very Easily by Simply Stepping Off, it is Nearly Impossible to Fall Backwards or Forwards. There is Enough Skill Required in Propelling the Gocycle to Make it Fascinating to Boys and Girls of Any Age.

They Are Made Entirely of Hardwood and Iron, Securely Jointed, the Iron Parts Well Enameled to Protect Against Rust and Wear, the Platform and Standards are Stained Bright Green, Metal Parts Red, Affording Strong Contrast in Colors.

	Per Dozen
No. GC—25x25 inches; Weight per dozen 50 lbs. Loose	$15 00

BOYS STEEL WAGONS

★NORLEIGH DIAMOND

"Norleigh Diamond" High Grade Boys Wagons are Original in Construction and Distinctive in Appearance. They are Better Ironed, Better Finished and Much Stronger than any other.

The Norleigh Diamond Boys Wagon is **Better Ironed, Better Finished** and **Much Stronger** than any other Wagon on the Market. Just Compare our Gear with any other and verify this Statement. Where other Front Gears are Riveted Once or Twice the **Norleigh Diamond Riveted, Welded** and **Reinforced** at **Nine Different Places.**

Note the Practical and Powerful Fifth Wheel and Gear. Note that the Tongue is Ironed—this Obviates all Tongue Trouble—Tongue Remains where you Leave it—Does not Fall to the Ground. Examine the **New Idea Steel Hand Loop**, which is the Best and Most Practical ever Used.

The NORLEIGH DIAMOND Gear and Heavy Iron Work, together with the "New Idea" Large Barrel, Anti-Friction Outer Bearing Hubs and Extraordinary Heavy Spokes and Wide Tires, Enables the NORLEIGH DIAMOND to Withstand Heavy Loads and Rough Usage where other Wagons Break Down.

Body—24-Gauge Steel (others made of 29 Gauge). Double Beaded or Swedged. Top Edge Reinforced with Heavy Steel Wire; Bed Substantially Fastened to Gear by Eight Steel, Copper Plated Bolts and Nuts, with Washers Under Heads to Keep them from Pulling Through.

Finish—Enameled, Varnished and Decorated by Hand in **Four Different Color Combinations**, as follows: Red Outside, Green Inside, Green Gear and Wheels; Green Outside, Red Inside, Red Gear and Wheels; Blue Outside, Red Inside, Red Gear and Tinned Wheels; Red Outside, Green Inside, Black Gear and Tinned Wheels; Gold Letters and Decorations.

Wheels—Steel, Highly Finished to Match Gear, **Fitted with Extra Heavy Spokes and Wide Tires**; "New Idea" Large Barrel, Outer Bearing Anti-Friction Hubs and Brass Plated Hub Caps.

Gear—Extra Heavy 10-Gauge Channel Steel (others made from 14-Gauge, which is much Lighter), Enameled to Match Wheels; "V" Shaped Channel Steel Braces; Improved Style Reinforcing Brace on Rear Axles, Extra Large and Strong Fifth Wheel Braces (see Page 3401)

Tongue—Made of Select Closely Grained Bent Hard Wood and will reach back far enough to allow Coasting; Finished in Oil; Fitted with "New Idea" Steel Hand Loop.

Packing—All NORLEIGH DIAMOND Gears, Wheels and Tongues are Packed in the Wagon Bed; this Eliminates Battered or Broken Wheels and Lost Tongues; This also means a Lower Freight Rate.

With Steel Tires

Nos.	100/40	125/30	150/20	175/10	200/1
Body, inches	8x18	9x20	10x22	11x24	12x26
Wheels, inches	6 & 6	8 & 8	8 & 8	10 & 10	10 & 10
Weight per Doz., lbs.	93	105	120	174	204
Per Dozen	$29.50	32.50	37.00	42.00	49.50

Nos.	225/2	250/3	300/4	350/5
Body, inches	13x28	14x30	15x32	16x36
Wheels, inches	11 & 11	11 & 11	11 & 11	12 & 12
Wt. per Doz., lbs.	228	252	276	378
Per Dozen	$55 00	60 00	68 00	88 00

Sixth Dozen in a Fibre Shipping Carton.

BOYS STEEL WAGONS

★DIAMOND BRAND

Body—Steel, Corrugated or Swedged Top Edge Reinforced with Steel Wire Cable; Substantially Fastened to Gearing with 8 Steel Bolts; no Rivets.

Gear—All Steel; "V" Shaped Braces.

Tongue—Made of Select Closely Grained Hardwood.

Wheels—Steel; Finished in Green Enamel; Pressed Hubs.

Fifth Wheel—Has Large Circle, Giving an Equal Bearing on Rough Surfaces and preventing Strain on Body.

Finish—Enameled, Varnished and Striped; Colors: Outside Bed, Red; with Two Gold Stripes, Gold Letters and Gold Decorations; Inside Bed, Green; Gear, Green; Wheels, Green.

Nos.	00000	0000	000	00	0
Body, inches	8x16	8x18	9x20	10x22	11x24
Wheels, inches	6 & 6	6 & 6	8 & 8	8 & 8	10&10
Wt. per Doz., lbs.	55	75	84	90	138
Per Dozen	$18.00	21.30	24.00	27.00	34.00

Nos.	1	2	3	4
Body, inches	12x26	13x28	14x30	15x32
Wheels, inches	10 & 10	11 & 11	11 & 11	11 & 11
Wt. per Dozen, lbs.	180	198	228	276
Per Dozen	$40.00	44.00	48.00	55.00

Sixth Dozen in a Fibre Shipping Carton

★MOUND CITY

Body—Steel, Beaded Top Edge Reinforced with Steel Wire; Substantially Fastened to Gearing with Steel Bolts and Screws.

Gear—All Steel; No. 0 and larger, extra Braced.

Wheels—Steel; Finished in Black Enamel, Pressed Hubs.

Fifth Wheel—Has Large Circle; giving an Equal Bearing on Rough Surfaces and preventing Strain on Body

Finish—Enameled Colors: Outside Bed, Red, Gold Letters and Gold Decorations; Inside Bed, Green; Gears, Black; Wheels Black.

Nos.	M0000	M000	M00	M0
Body, inches	8x18	9x20	10x22	11x24
Wheels, inches	6 & 6	8 & 8	10 & 10	10 & 10
Weight per Dozen, lbs.	74	82	88	128
Per Dozen	$20 00	23 00	25 00	29.70

Nos.	M1	M2	M3	M4
Body, inches	12x26	13x28	14x30	15x32
Wheels, inches	10 & 10	10 & 10	11 & 11	11 & 11
Weight per Dozen, lbs.	164	184	200	224
Per Dozen	$33.00	38 00	42 00	48.50

One-Quarter and One-Half Dozen Crates.

No Broken Crate Lots

NOTE—Weights Given are Approximate, But they will not Vary More than 3 lbs. More or Less.

GLUE

LE PAGES LIQUID

Most Convenient Form; Always Ready for Use; Contains no Acids; For Wood, Leather, Glass, Iron, Stone, Paper and Cloth.

IN BOTTLES, WITH SPREADER

For Family Use

	Per Gross
No. 10—One Ounce Bottle, Size 1¼x1¾ inches; Weight per Gross 2½ lbs.	$20 00
No. 20—Two Ounce Bottle, Size 3¼x1¾ inches; Weight per Gross 4½ lbs.	31 00

One Dozen in a Box (No Less Sold)

IN CANS, WITH SPREADER

For Family Use

	Per Dozen
No. 5—One-half Gill Can, Size 1¾x1¾ inches; Weight per Dozen 3⅝ lbs.	$3 00
No. 0—One Gill Can, Size 2x2¼ inches; Weight per Dozen 5½ lbs.	4 70

One Dozen in a Box (No Less Sold)
Six Dozen in a Case

IN CANS

For Mechanics and Repairers Use

	Per Dozen
No. 30—½ Pint Can, Size 2⅝x3⅛ inches; Weight per Dozen 10 ½ lbs.	$7 20
No. 40—1 Pint Can, Size 3x4 inches; Weight per Dozen 16½ lbs.	11 50
No. 50—1 Quart Can, Size 4¼x4⅝ inches; Weight per Dozen 34 lbs.	18 00
No. 60—½ Gallon Can, Size 4¾x6¼ inches; Weight per Dozen 63 lbs.	34 00

No. 70—1 Gallon Can, Size 6¼x8 inches, Weight per Dozen 132 lbs.

No. 30, Two Dozen, Nos. 40 and 50, One Dozen, Nos. 60 and 70, Half Dozen in a Case.

FAMILY ASSORTMENTS

	Per Assortment
No. 1—Assortment Contains Two Dozen 1-Ounce Bottles and One Dozen ½ Gill Cans, with Brushes; Display and Advertising Cards and a Neat Wire Display Stand, 14 inches High, are Included. Weight per Assortment 12 lbs.	$8 30

One Assortment in a Case

GLUE

LE PAGES LIQUID

Most Convenient Form; Always Ready for Use; Contains no Acids; for Wood, Leather, Glass, Iron, Stone, Paper and Cloth.

IN PATENT PIN-SEALING TUBES

	Per Dozen
No. T10—One Ounce Tube; Weight per Dozen ½ lb.	$1.80
No. T20—Two Ounce Tube; Weight per Dozen 1 lb.	3 00

One Dozen in a Box (No Less Sold)

MENDING CEMENT

ROCK CEMENT

Mends China, Glass, Metal, Wood, Crockery, etc., Impervious to Hot or Cold Water and Dampness; Will not Congeal in Cold Weather.

	Per Dozen
No. R—1 Ounce Bottle; Size 1x2½ inches; Weight per Dozen 1⅝ lbs.	$1.80

One Dozen on Easel Display Card; (No Less Sold)
One Gross in a Case

DRY GLUE

	Per Pound
No. 100—Common; Flake; for Soft Wood Work; Sizing and Book Binding	$0.62
No. 110—Carpenters; Flake; for sizing and joist gluing	.66
No. 110½—Carpenters; Ground; for Veneering and Sizing	.66
No. 120—Cabinet; Flake; for Cabinet Makers Use and High Grade Work	.70
No. 130—Ribbon; Uniform Strips; for Best Grade of Work.... 25 lbs. in a Wooden Drum	.62

PHOTO PASTE

LE PAGES

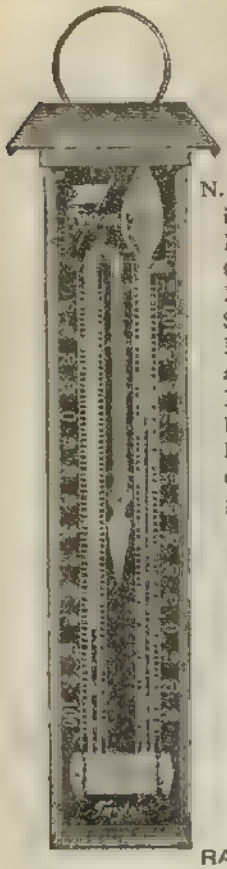
For Schools, General Office use, etc. The best thing for Scrap Books, Mounting Photos, etc. Does not Dry too quickly, Strike Through the Paper, Warp the Mount or Discolor the Print.

In Tubes

	Per Dozen
No. P5—Small Size, Retails for 5 cents; Weight per Dozen ½ lb.	$0.00

One Dozen in a Handsome Display Box (No Less Sold)

THERMOMETERS



Per Dozen

N. 5452—Self Registering, Maximum and Minimum; Six Patterns; Length 8 in.; Black Oxidized Brass Scales; White Filled Figures; Black Japanned Tin Case; Scale Range, 10° to 40° below Zero to 120° Fahrenheit above; each Stamped; Weight per Doz. 3 lbs.....$72.00

One in a Box.

RADIAL SCALE

Has Chain and Snap to Attach to Chandelier; can be Read from every Side of the Room. More Accurate Than a Thermometer Hung on the Wall.

Per Dozen

No. 2355—Length 8 inches; Assorted Scales, Registering ° to 10° Below Zero and 100° to 110° Above Zero; All Brass Case; Nickel Plated and Polished Ends; Black Oxidized Faces; White Enameled Stamped in Scales; Magnifying Spirit Tube Protected Bulb; 6½ inch Snap Chain; Weight per Dozen 6 lbs.....$48.00

Half Dozen in a Box

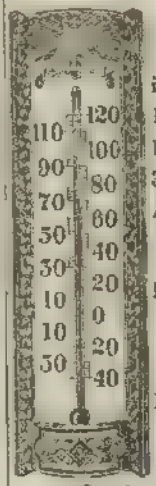
A neat display Package containing One Dozen Assorted Thermometers; Assorted Finishes; Three Colors of Scale Finish and Three Wood Finishes; Flemish, Mission and Bog Oak; Distance Reading; Assorted Scales registering 50 to 60 Degrees below Zero and 110 to 120 Degrees above Zero.

Per Assortment

No. 5151—Length Thermometer 8 inches, Width 2½ inches; Handsomely Finished, Silver Lettered Package; Length 17½ inches; Width 10½ inches; Thick 2 inches $10.00

Each Thermometer in a Separate Carton; Weight Assortment 5 lbs.

Distance Reading, Large Distinct Markings; Magnifying Spirit Tube



TIN CASE

Enameled Tin Case, Decorated in Colors; White Enameled Face; Black Enameled Scale; Protected Bulb; Assorted Scales, Registering 30° to 50° Below Zero to 120° Above Zero.

Per Dozen

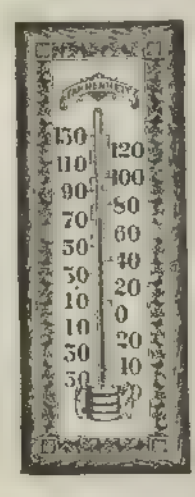
No. 408—Size 8 x 2 inches; Weight per Dozen 1½ lbs. $4.00

No. 410—Size 10 x 2⅛ inches; Weight per Dozen 2½ lbs. 5.00

One in a Carton; One Dozen in a Box

WOOD BACK

Varnished Hardwood Back; Beveled Edges; Enameled Tin Face; Decorated Edges; White Center; Black Enameled Scale; Brass Bulb Guard; Assorted Scales Registering 40° to 60° Below Zero and 120° to 130° Above Zero.



Distance Reading, Large Distinct Markings; Magnifying Spirit Tube.

Per Dozen

No. 2008—Size 8 x 2⅛ inches; Weight per Dozen 2¾ lbs.....$5.00

No. 2010—Size 10x3¼ inches; Weight per Dozen 5½ lbs.....5.50

One in a Carton; One Dozen in a Box

DAIRY FLOATING

Marked for Freezing, Churning, Cheese Making, Scalding and Boiling.

GLASS

Per Dozen

No. 4008—Size 8x1½ in.; Magnifying Mercury Tube; Assorted Scales, Registering from Zero (°) to 30° Below and 150° to 190° Above Zero; Weight per Doz. ⅝ lbs..... $20 00

One in a Tube; One Dozen in a Box

GLASS—EASY READING

Shot Weighted to Insure Floating in Upright Position, Tested and Guaranteed Accurate.

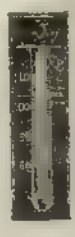
Per Dozen

No. 4108—Size 8x1½ in.; Magnifying Mercury Tube; Assorted Scales, Registering Low from 20° below to Zero and High from 170° to 200° Above Zero; Weight per Dozen ⅝ lb.. $20.00

One in a Tube; One Dozen in a Box

INCUBATOR THERMOMETERS

Marked from 80° to 110° Above Zero, With High, Low and Mean Incubating Temperature Noted.



Per Dozen

No. 3004—Size 4½x1¼ inches; Black Oxidized Copper Plate; White Enameled Stamped in Scale; Mercury Tube; Wt. per Doz. 1½ lbs..... $13.50

One in a Carton; One Dozen in a Box

Tube Set Diagonally on Plate.

Marked from 80° to 110° Above Zero, With High Low and Mean Incubating Temperature Noted.

Per Dozen

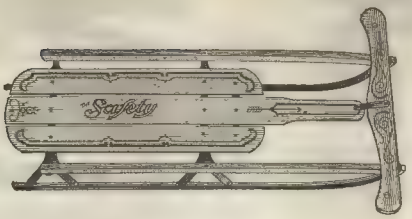
No. 3304—Size 4x2 inches; Black Oxidized Copper Plate; White Enameled Stamped in Scale; Mercury Tube; Weight per Dozen 1¾ lbs..... $14.50

One in a Carton; One Dozen in a Box

STEERING SLEDS.

SAFETY EASY GUIDER.

FAST AND SAFE.



EASY TO STEER.

THE SAFETY SLED.

Comes in seven sizes.

No.	Lgth. Ins.	Hght. Ins.	Wth. Ins.	Wgt. Lbs.	Per Dozen
30	30	5½	11	6	$26.00
33	33	5½	11	6½	31.20
37	37	5½	12	7	36.00
41	41	5½	12	7½	41.60
46	46	7	14	11½	53.60
51	51	7	14	13½	58.50
57	57	7	14	14½	68.00

Features which make the Safety Sled superior to all others.

The easy steering arrangement. A direct pressure on the spring steel runners. (Pat.)

The solid steel bench. Lightest and strongest construction known. (Pat.)

The frictionless non-skid runners insure high speed and accurate guiding (Pat.)

EVIDENCE OF SUPERIOR QUALITY SHOWN BY THE INCREASE IN SALE OF SLEDS.

1st year, 1912	8,000	4th year, 1915	120,000	War year, 1918	210,000
2nd year, 1913	22,000	5th year, 1916	210,000	8th year, 1919	411,000
3rd year, 1914	68,000	6th year, 1917	312,000		

Place Your Order Early.

SUPERIOR QUALITY AND INTERESTING PRICES. A TRIAL WILL CONVINCE YOU.

SLEDS AND COASTERS.

STEERING, KALAMAZOO.

Will absolutely steer perfectly at a greater rate of speed, further to either side and with less exertion than any other sled.

The runners are strictly high carbon spring steel, carefully formed to shape without destroying the carbon which gives them greater flexibility. The knees are pressed steel. The woodwork is carefully selected and the entire sled put together with rivets. The decorations are unique, tasty and perfectly executed.

We can recommend them to our customers as the best sled of this type on the market.

	Per Dozen
No. 00—32 ins. long; 11½ ins. wide; 6 ins. high; four knees	**$28.00**
No. 01—36 ins. long; 12½ ins. wide; 6 ins. high; four knees	**32.00**
No. 02—40 ins. long; 13½ ins. wide; 6 ins. high; four knees	**36.00**
No. 03—45 ins. long; 14½ ins. wide; 6 ins. high; four knees	**42.00**
No. 06 Racer—56 ins. long; 14½ ins. wide; 6¼ ins. high; six knees	**56.00**

Packed two in a bundle.

WOOD.

Three braced bent knees, decorated top, oval shoes.

Per Dozen

No. 105—36x12 inches, weight per dozen 70 pounds..... **$30 00**

Three braced bent knees, goose neck, decorated top, oval shoes.

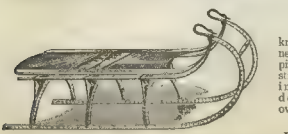
Per Dozen.

No. 115—36x12 inches, weight per dozen 72 pounds.....**$36.00**

Three bent knees, champion fender, strong gearing, hand decorated, oval shoes.

Per Dozen.

No. 250—36x13½ in., weight per dozen 75 lbs.....**$42.00**

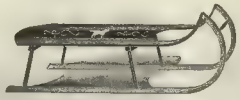


Three bent knees, goose neck, champion fender, strong gearing, hand decorated, oval shoes.

Per Dozen.

No. 260—36x13½ in., weight per dozen 80 lbs.....**$48.00**

WOOD.



Two frame knees, mortised into runners, with square tenons, decorated top, flat shoes.

Per Dozen.

No. 85—30x11 inches; weight per dozen, 40 pounds...**$14.00**
No. 86—32x12 inches; weight per dozen, 50 pounds....**16.00**

Three frame knees, mortised into runners with square tenons, decorated top, flat shoes

Per Dozen.

No. 87—36x12 inches, weight per dozen 54 pounds.....**$21.00**

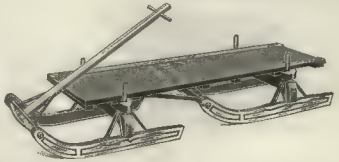
WOOD COASTERS.

Hardwood, natural finish, ornamental top, round steel spring shoes.

Nos.	2	10	14
Inches	10x30	11x36	12x48
Weight per doz., pounds	54	80	120
Per Dozen	$15.00	20.00	28.00

BOB SLEDS.

F. O. K. & CO. MAINITE.



This sled is built exactly like a standard Mainite farm sleigh. It has a long removable wood rack 12½ ins. by 3 ft. 9 ins. and is 8½ ins. high from floor. The runners are 26 ins long and have shoes running well over nose of runner. The sleigh has 4 feet of floor base. The tongue, short reach, bunks, rollers and bolsters are well ironed and braced. The lumber is all of good sound air-seasoned stock.

Nicely painted, striped and varnished. The gear is painted red and striped with black and yellow. The rack is painted green.

This is just the sleigh for a boy, whether for coasting or hauling light things, and with ordinary usage it should last a boy for many years.

Each

No. M—Bob Sleds; weight each, 25 lbs **$9.50**

CIRCUS TOYS

SCHOENHUT'S

HUMPTY DUMPTY

Schoenhut's Wonderful and Fascinating Unbreakable Toys; Each Part is Made of Wood; Substantial and Lasting; All Joints are Full Ball and Socket, Allowing Position to be Changed in Any Direction; Animals and Figures Can Be Made to Assume Any Natural Position and Many Unnatural and Grotesque Positions; Performing Endless Feats; Inexhaustible Amusement.

Per Dozen Sets

No. 519—4-Piece Set, Consisting of Jointed Clown, 9 inches High; 12-inch Wood Ladder and 5-inch Chair, Painted White; 2¾-inch Wood Trick Barrel, Painted Red, White and Blue; Each Set Mounted in Folding Display Box; Weight per Dozen Sets, 12 Lbs..... $17.00

One Set in a Box

Per Dozen Sets

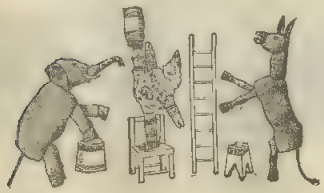
No. 520—4-Piece Set; Same as No. 519 Set, with the Addition of Trick Mule 10 inches Long, 9 inches High; Jointed Head, Neck and Legs; Weight per Dozen Sets, 19 Lbs.... $34.00

One Set in a Box

Per Dozen Sets

No. 521—5-Piece Set; Same as No. 519 Set, with the Addition of Large Trick Elephant with Jointed Head, Trunk, Legs and Ankles; Weight per Dozen Sets, 26 Lbs. $48.00

One Set in a Box



Per Dozen Sets

No. 522—8-Piece Set; Same as No. 519 Set, with Trick Mule and Trick Elephant as in Nos. 520 and 521 Sets and with Two Fancy Decorated Wood Pedestals; Weight per Dozen Sets, 56 Lbs. $66.00

One Set in a Box

CIRCUS TOYS

SCHOENHUT'S

HUMPTY DUMPTY

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Per Dozen Sets

No. 523—16-Piece Set; Consists of Gorgeously Costumed Lady Equestrian 8 inches High; Jointed Hips, Shoulders and Head; Brilliantly Costumed Man Equestrian with Jointed Hips, Shoulders, Elbows and Head; Two Large Circus Trick Horses, Length 10 inches High, 7½ inches, Bridled and Saddled in True Circus Style, Jointed Legs and Heads; 2 Circus Whips; 2 Wood Chairs; 3 Fancy Wood Pedestals; Table; Ladder; Red, White and Blue Barrel; Large Red, White and Blue Ball; and 4-inch Fancy Striped Hoops; Weight per Dozen Sets, 66 Lbs. . $120.00

One Set in a Box

CARDBOARD CIRCUS TOYS

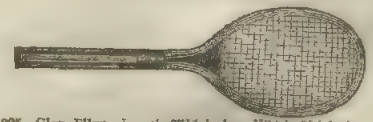
Heavy Folding Tent 10x8 inches, without Flag; Lithographed in Natural Colors, with Flags of All Nations in Bright Colors; U. S. Flag on Wood Staff for Top of Tent; with 16 Large Folding Animals for Cut Out, Lithographed in Natural Colors; Complete in Bright Colored Envelope 15½x11¾ inches.

Per Dozen Sets

No 1340 Weight per Dozen 3½ lbs..... $1 80

One Set in Envelope

TOY RACKETS



Each

No. 225—Glen Ellyn—Length 27¼ inches; Width 8⅛ inches; Strung with Good Quality Gut; Reinforced at Top and Bottom; Cord Wrapped at Shoulders, Weight Each, 12½ ozs..... $2.00

No 75 Fairmount—Length 24¼ inches; Width 8 inches; Strung with Good Quality Gut; Reinforced at Top and Bottom; Weight Each, 9½ ounces..... 1.40

No. 50—Fairmount—Length 24 inches; Width 8 inches; Strung with Medium Quality White Gut; Weight Each, 7½ ounces..... 1.20

No. 25—Juvenile—Length 20¼ inches, Width 6¾ inches; Strung with Medium Quality Red and White Gut; Weight Each, 6 ounces .60

One in a Bag

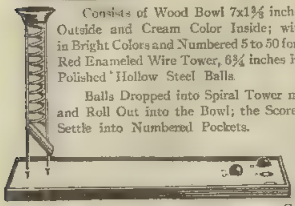
MARBLE GAMES

Consists of Varnished Hardwood Board 11½x8½ inches, with Four Pockets Marked 5 to 25, Gold Trimmed Red Enameled Wire Tower, 6¾ inches High; Two Fancy Glass Marbles; Marbles Dropped into Spiral Tower make Revolving Descent and Roll Out on the Board; Score is Counted when they Roll into Numbered Pockets.

Per Dozen

No. 220—Weight per Dozen 6 lbs.....**$6 00**

Half Dozen in a Package



Consists of Wood Bowl 7x1¾ inches; Painted Bright Red Outside and Cream Color Inside; with 12 Pockets Painted in Bright Colors and Numbered 5 to 50 for Scoring; Gold Trimmed Red Enameled Wire Tower, 6¾ inches High; Four Large Highly Polished Hollow Steel Balls.

Balls Dropped into Spiral Tower make Revolving Descent and Roll Out into the Bowl; the Score is Counted when they Settle into Numbered Pockets.

Per Dozen

No. 231—Weight per Dozen 12 lbs.....**$12 50**

Half Dozen in a Package

Consists of Varnished Hard wood Box, 9¼x3¾x3¾ inches, with Circular Slide Inside, Bright Red Cardboard Tray with Numbered Holes or Sockets; 3 Large Highly Polished Hollow Steel Balls; when Pivoted Cover is Raised it Forms an Abrupt Incline Down which Balls are Allowed to Roll; Striking the Slippery Slide, they Emerge at the other End of Box and in a Graceful Curve, Bounding onto the Cover, Scoring as they Roll into the Holes. Per Dozen

No. 266—Weight per Dozen 12 lbs. **$5.50**

Third Dozen in a Package

TURN OVER GAMES

Long Box with Built-Up Playing Board; At One End are Six Numbered Holes; It is the Object of Player to Roll the "Turn-overs" (Loaded Metal Capsules) into these Holes; the Loaded Capsules instead of Rolling Side-Wise, Turn Over and Over on their Ends in a Comical Appearing and Totally Unexpected Manner; Brilliant Lithographed Cover

Per Dozen

No. 284—20½x7½ inches; Handsome Cardboard Box; Contains Two Metal "Turnovers." Weight per Dozen 10 lbs.....**$5.00**

Half Dozen in a Package

No. 285—24½x10½ inches; Handsome Box with Wood Sides and Frame; Contains Four Metal "Turnovers;" Weight per Dozen 20 lbs.....**11.00**

One in a Package

BULL BOARD

Per Dozen

No. 255—Box 12x9¼ inches with Brilliant Labels; 1½ inch Red Pasteboard Discs; Weight per Dozen 7½ lbs.....**$5.00**

No. 250—Imitation Red Leather Covered Box, 14½x9¾ inches, with Brilliant Labels; 1½ inch Green Felt Covered Discs; Weight per Doz. 14 lbs.....**$11 50**

Half Dozen in a Package

GAMES

FISH POND

Box 11⅞x11¼ inches, with Gorgeously Lithographed Cover; Bottom of Box Handsomely Lithographed Aquatic Scene in Colors; Contains 6 Die Cut Cardboard Fish in Colors; with Meral Stands to Hold them Erect; Wood Pole with Line and Hook.

Per Dozen

No. 232—Weight per Dozen 6 lbs.....**$2.40**

Half Dozen in a Package

Box 10x10¼ inches with Gorgeously Lithographed Cover; Elaborate Marine Scene in Bright Colors on Raised Cardboard Stand in Box; Slotted to Allow Fish to be "in water;" 22 Die Cut Fish in Bright Natural Colors, with Variety of Fish Lettered on Each; Two Wood Poles with Lines and Hooks.

Per Dozen

No. 233—Weight per Dozen 12 lbs.....**$4 50**

Half Dozen in a Package

Box 22¼x10 inches, with Gorgeously Colored Cover; Folding Square Pasteboard Marine Tank, Each Side 10¾x8¾ inches with Richly Colored Lithograph Scenes of Marine Life; 12 Die Cut Fish in Bright Natural Colors with Variety of Fish Lettered on Each and Metal Ring in Each Head; Two Wood Holes with Lines and Magnet in Place of Hook; Fish are Caught by Magnet Attracting Ring, and Affords much Sport, as they Frequently Slip Away. Per Dozen

No. 234 Weight per Dozen 12½ lbs.....**$8.00**

Half Dozen in a Package

TELEGRAPH

Consists of Toy Telegraph Sending Instrument Mounted on Wood Base 5½ x 3 inches; a Supply of Miniature Blanks for Cablegrams, Telegrams, and Night Lettergrams with Envelopes to Match; One Rubber Canceling Stamp and Ink Pad; A Supply of Toy Money in 25c and 50c Denomination; In Compartment Box 10½x8 inches, with Brilliant Colored Label.

Per Dozen

No. 280—Weight per Dozen 7 lbs.....**$4.70**

Half Dozen in a Package

Consists of Sending Instrument Same as No. 280; a Liberal Supply of Message Blanks and Envelopes; a Supply of Toy Money in Denominations of 50c to $5.00; One Rubber Cancelling Stamp and Ink Pad; Two Lead Pencils; Lithographed Folding "Office;" and Mask with Eye Holes and Life Size Hat for Delivering Messages; Fancy Compartment Box 16½x9¾ inches with Brilliant Colored Label.

Per Dozen

No. 281—Weight per Dozen 12½ lbs.....**$9 50**

One in a Box

POST OFFICE

Consists of Lithographed Cardboard Partition for Post Office Mounted on Wood Base; Mask with Eye Holes and Life Size Cap for Mail Carrier; a Supply of Miniature Stationery; Envelopes, Telegraph Blanks, Money Order Blanks, etc.; Three Sheets of Perforated Minature Stamps Printed in Colors; Post Cards; One Rubber Cancelling Stamp and Ink Pad; in Handsome Box 11x8¾ inches with Brilliant Colored Label.

No. 277—Weight per Dozen 8 lbs.....**$4.70**

Half Dozen in a Package

Same as No. 277 with Larger Post Office and a More Liberal Supply of Stationery, Stamps, Cards and Forms; Fancy Box 14¾x9¾ inches, with Brilliant Colored Label.

Per Dozen

No. 278—Weight per Dozen 12 lbs.....**$9.00**

Half Dozen Set in a Box

CIRCUS TOYS

SCHOENHUT'S

HUMPTY DUMPTY

Schoenhut's Wonderful and Famous Unbreakable Toys, Each Part is Made of Wood; Solid and Durable in Construction and Strong, Movable Joints to Last a Lifetime. Are Decorative and Highly Colorable Aside to Artistic Nature. Perforated Metal Ornamental and Grotesque Patterns, Perforating Endless Feats, Inexhaustible Amusement.

Per Dozen Sets

No. 519—4-Piece Set, Consisting of Jointed Clown, 9 inches High; 12 inch Wood Ladder and 5-inch Chair, Painted White; 2¼ inch Wood Trick Barrel, Painted Red, White and Blue; Each Set Mounted in Folding Display Box, Weight per Dozen Sets, 12 Lbs. **$17.00**

One Set in a Box

Per Dozen Sets

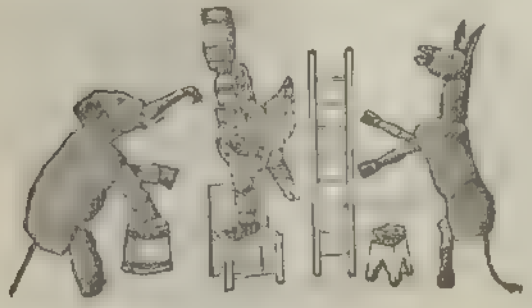
No. 520—4-Piece Set, Same as No. 519 Set, with the Addition of Large Trick Mule 10 inches Long, Jointed Body, Jointed Head, Neck and Legs; Weight per Dozen Sets, 34 Lbs. **$34.00**

One Set in a Box

Per Dozen Sets

No. 521—5-Piece Set; Same as No. 519 Set, with the Addition of Large Trick Elephant with Jointed Head, Trunk, Legs and Tail; Weight per Dozen Sets, 52 Lbs. **$48.00**

One Set in a Box



Per Dozen Sets

No. 522—8-Piece Set, Same as No. 519 Set with Trick Mule and Trick Elephant as in Nos. 520 and 521 Sets and with Two Extra Dancing Wood Performers; Weight per Dozen Sets, 85 Lbs. **$66.00**

One Set in a Box

CIRCUS TOYS

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HUMPTY DUMPTY

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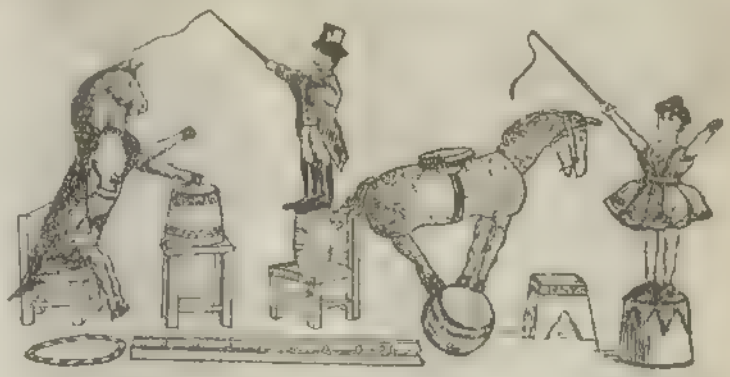


Per Dozen Sets

No. 523—10-Piece Set, Consists of Gorgeously Costumed Lady Equestrian 8 inches High, Jointed Hips, Shoulders and Head; Brilliantly Costumed Man Equestrian with Jointed Hips, Shoulders, Elbows and Head; Two Large Circus Trick Horses Length 10 inches High, 7½ inches, Bridled and Saddled in True Circus Style, Jointed Legs and Heads; 2 Circus Whips; 2 Wood Chairs; 3 Fancy Wood Pedestals; 1 Trick Ladder 15 inches, White and Blue Barrel; 1 Large Red White and Blue Ball, and 4-inch Fancy Striped Hoops; Weight per Dozen Sets, 68 Lbs. **$120.00**

One Set in a Box

CARDBOARD CIRCUS TOYS

Heavy Folding Tent 10x8 inches, without Flag; Lithographed in Natural Colors, with Flags of All Nations in Bright Colors; U. S. Flag on Wood Staff for Top of Tent; with 16 Large Folding Animals for Cut Out, Lithographed in Natural Colors; Complete in Bright Colored Envelope 15¼x11¼ inches.

Per Dozen Sets

No. 1340—Weight per Dozen 2½ lbs. **$1.80**

One Set in Envelope

TOY RACKETS

Each

No. 225 Glen Ellyn Length 27 inches, Weight 5 oz. Strung with Good Quality Gut, Reinforced at Top and Bottom; Cord Wrapped at Shoulders; Weight Each, 12½ oz. **$2.00**

No. 75—Fairmount—Length 24¼ inches; Width 8 inches; Strung with Good Quality Gut; Reinforced at Top and Bottom; Weight Each, 9½ ounces. **1.40**

No. 50—Fairmount—Length 24 inches; Width 8 inches; Strung with Medium Quality White Gut, Weight Each 7 ounces. **1.20**

No. 25—Juvenile—Length 20¼ inches; Width 6⅝ inches; Strung with Medium Quality Red and White Gut, Weight Each 6 ounces. **.60**

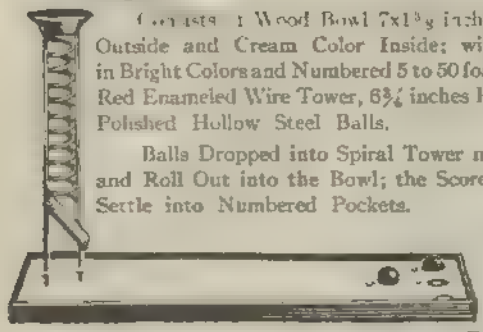
One in a Bag

MARBLE GAMES

Consists of Varnished Hardwood Board 11¼x3¼ inches, with Four Pockets Marked 5 to 25; Gold Trimmed Red Enameled Wire Tower, 6¾ inches High; Two Fancy Glass Marbles; Marbles Dropped into Spiral Tower make Revolving Descent and Roll Out on the Board; Score is Counted when they Roll into Numbered Pockets.

Per Dozen
No. 220—Weight per Dozen 6 lbs.....$6 00

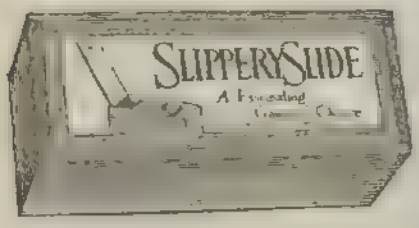
Half Dozen in a Package



Consists of Wood Bowl 7x1[illegible] inches, Painted Bright Red Outside and Cream Color Inside; with 12 Pockets Painted in Bright Colors and Numbered 5 to 50 for Scoring; Gold Trimmed Red Enameled Wire Tower, 6¾ inches High; Four Large Highly Polished Hollow Steel Balls.

Balls Dropped into Spiral Tower make Revolving Descent and Roll Out into the Bowl; the Score is Counted when they Settle into Numbered Pockets.

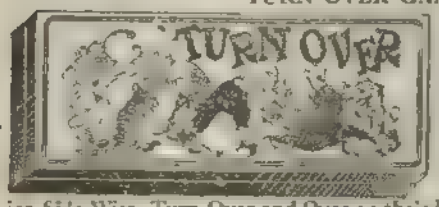
Per Dozen
No. 221—Weight per Dozen 12 lbs..... $12.50
Half Dozen in a Package



Consists of Varnished Hard wood Box, 9¼x3¾x3¾ inches, with Circular Slide Inside, Bright Red Cardboard Tray with Numbered Holes or Sockets; 3 Large Highly Polished Hollow Steel Balls; when Pivoted Cover is Raised it Forms an Abrupt Incline Down which Balls are Allowed to Roll; Striking the Slippery Slide, they Emerge at the other End of Box and in a Graceful Curve, Bounding onto the Cover, Scoring as they Roll into the Holes.

Per Dozen
No. 288—Weight per Dozen 12 lbs..... $5 50
Third Dozen in a Package

TURN OVER GAMES



Long Box with Built-Up Playing Board; At One End are Six Numbered Holes; It is the Object of Player to Roll the "Turn-overs" (Loaded Metal Capsules) into these Holes; the Loaded Capsules instead of Rolling Side-Wise, Turn Over and Over on their Ends in a Comical Appearing and Totally Unexpected Manner; Brilliant Lithographed Cover.

Per Dozen
No. 284—20¼x7½ inches; Handsome Cardboard Box; Contains Two Metal "Turnovers;" Weight per Dozen 10 lbs..... $5 00
Half Dozen in a Package

No. 285—24½x10½ inches; Handsome Box with Wood Sides and Fran[illegible]. Contains Four Metal "Turnovers;" Weight per Dozen 20 lbs. 11 00
One in a Package

BULL BOARD

Per Dozen
No. 255—Box 12x9¾ inches with Brilliant Labels; 1½ inch Red Pasteboard Discs; Weight per Dozen 7½ lbs. ... $5 00

No. 256—Imitation Red Leather Covered Box, 14½x9¾ inches, with Brilliant Labels; 1½ inch Green Felt Covered Discs; Weight per Dozen 14 lbs..... $11 50
Half Dozen in a Package

GAMES

FISH POND

Box 11⅝x11¼ inches, with Gorgeously Lithographed Cover; Bottom of Box Handsomely Lithographed Aquatic Scene in Colors; Contains 6 Die Cut Cardboard Fish in Colors; with Metal Stands to Hold them Erect; Wood Pole with Line and Hook.

Per Dozen
No. 222—Weight per Dozen 6 lbs..... $2.40
Half Dozen in a Package

Box 19x10¼ inches with Gorgeously Lithographed Cover; Elaborate Marine Scene in Bright Colors on Raised Cardboard Stand in Box; Slotted to Allow Fish to be "in water;" 22 Die Cut Fish in Bright Natural Colors, with Variety of Fish Lettered on Each; Two Wood Poles with Lines and Hooks.

Per Dozen
No. 223—Weight per Dozen 12 lbs..... $4.50
Half Dozen in a Package

Box 22[illegible]x10 inches, with Gorgeously Colored Cover; Folding Square Pasteboard Marine Tank, Each Size 10⅝x8¾ inches with Richly Colored Lithograph Scenes of Marine Life; 12 Die Cut Fish in Bright Natural Colors with Variety of Fish Lettered on Each and Metal Ring in Each Head; Two Wood Holes with Lines and Magnet in Place of Hook; Fish are Caught by Magnet Attracting Ring, and Affords much Sport, as they Frequently Slip Away.

Per Dozen
No. 224—Weight per Dozen 12½ lbs..... $6.00
Half Dozen in a Package

TELEGRAPH

Consists of Toy Telegraph Sending Instrument Mounted on Wood Base 5[illegible] x 3 inches; a Supply of Miniature Blanks for Cablegrams, Telegrams, and Night Lettergrams with Envelopes to Match; One Rubber Canceling Stamp and Ink Pad; A Supply of Toy Money in 25c and 50c Denomination; In Compartment Box 10½x8 inches, with Brilliant Colored Label.

Per Dozen
No. 280—Weight per Dozen 7 lbs..... $4.70
Half Dozen in a Package

Consists of Sending Instrument Same as No. 280; a Liberal Supply of Message Blanks and Envelopes; a Supply of Toy Money in Denominations of 50c to $5.00; One Rubber Cancelling Stamp and Ink Pad; Two Lead Pencils; Lithographed Folding "Officer" and Mask with Eye Holes and Life Size Hat for Delivering Messages. Fancy Compartment Box 15½x9¾ inches with Brilliant Colored Label.

Per Dozen
No. 281—Weight per Dozen 12½ lbs. $9 50
One in a Box

POST OFFICE

Consists of Lithographed Cardboard Partition for Post Office Mounted on Wood Base; Mask with Eye Holes and Life Size Cap for Mail Carrier; a Supply of Miniature Stationery; Envelopes, Telegraph Blanks, Money Order Blanks, etc.; Three Sheets of Perforated Minature Stamps Printed in Colors; Post Cards; One Rubber Cancelling Stamp and Ink Pad; in Handsome Box 11x8¾ inches with Brilliant Colored Label.

No. 277—Weight per Dozen 8 lbs..... $4 70
Half Dozen in a Package

Same as No. 277 with Larger Post Office and a More Liberal Supply of Stationery, Stamps, Cards and Forms; Fancy Box 14½x9¾ inches, with Brilliant Colored Label.

Per Dozen
No. 278—Weight per Dozen 12 lbs..... $9.00
Half Dozen Set in a Box

FANCY WOOD PLANES

SIDE BEAD

Single Boxed

No. 47—

Size, in.	1/8	5/16	1/4	5/16	3/8	1/2
Each	$0.50	.50	.50	.50	.50	.50

Packed as Ordered

CENTER BEAD

Double Boxed

No. 51—

Size, in.	3/16	1/4	5/16	3/8	1/2
Each	$0.60	.60	.60	.60	.60

Packed as Ordered

DADOS

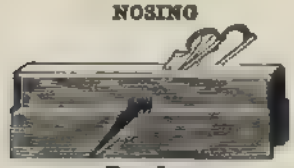
Brass Side Stop

No. 60—

Sizes, in.	1/4	3/8	1/2	5/8	3/4	7/8
Each	$1.10	1.10	1.10	1.10	1.10	1.10

Packed as Ordered

NOSING



Two Irons

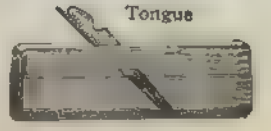
No. 113—

Sizes in.	7/8	1	1 1/4	1 1/2
Each	$1.10	1.10	1.10	1.20

Packed as Ordered

MATCH

Tongue



Groove

No. 99—

Sizes, in.	1/2	5/8	3/4	7/8
Per pair	$1.50	1.50	1.50	1.50

Packed as Ordered

FANCY PLANES

RABBET

Skew

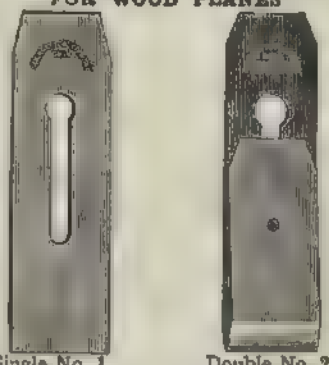
No. 146—

Sizes, in.	1/8	3/4	1	1 1/4	1 1/4	1 1/2
Each	$0.60	.60	.60	.65	.65	.70

Packed as Ordered

PLANE IRONS

FOR WOOD PLANES



Single No. 1 Double No. 2

Cast steel, ground and sharpened ready for use.

No. 1— Single

Size 2 in.—For planes Nos. 1B, 3B, 5B, 10B, 13B and 15B.....Per dozen $3.15
Size 2 1/8 in.—For planes Nos. 1B, 3B, 5B, 10B, 13B and 15B.....Per dozen 3.35
Size 2 1/4 in.—For planes Nos. 1B, 3B, 5B 10B, 13B and 15B...Per dozen 3.70
Size 2 3/8 in.—For plane No. 19B. Per dozen 4.10
Size 2 1/2 in.—For planes Nos. 19B and 25B .....Per dozen 4.50

No. 2— Double

Size 2 in.—For planes Nos. 1B, 3B, 5B, 10B, 13B, and 15B.....Per dozen $6.45
Size 2 1/8 in.—For planes Nos. 1B, 3B, 5B, 10B, 13B, and 15B..Per dozen 6.65
Size 2 1/4 in.—For planes Nos. 1B, 3B, 5B, 10B, 13B and 15B..Per dozen 7.00
Size 2 3/8 in.—For plane No. 19B. Per dozen 7.40
Size 2 1/2 in.—For planes Nos. 19B and 25B .....Per dozen 8.20

Half Dozen in a Box

TOOTH PLANE IRONS

For No. 36 Tooth Plane

No. 3—Size, in..... 2 1/8
Per dozen $6.35

Half Dozen in a Box

NOTE—In ordering Plane Irons always give number of plane and size of iron desired.

OHIO SCRAPER PLANE

Single, adjustable hardwood handle and knob, japanned and polished.

No. 0112—Length 9 inches, cutter 3 inches.....Each $2.00

One in a Box

SCRAPER PLANES AND SCRAPERS

STANLEY'S VENEER SCRAPER PLANES

Double handle. The blades are adjustable endwise and for angle and can be firmly locked in position desired.

No. 12—Length 6 1/4 in., blade 3 in., japanned, iron face.....Each $3.15
Extra Blades for No. 12.....Each .40

No 12 1/2—Length 6 1/4 in., blade 3 in., japanned, rosewood face.....Each $4.00
Extra Blades for No. 12 1/2.....Each .40

Single handle. The blades are adjustable endwise and for angle, and can be firmly locked in position desired.

No. 112—Length 9 in., blades 3 in., japanned iron face, rosewood handle .....Each $2.80
Extra Blades for No. 112.. ....Each .40

Planes One in a Box
Extra Blades Six in a Box

NOTE—Blades for Nos. 12, 12 1/2 and 112 are alike and will interchange.

No. 212—Length 5 1/2 in., blades 1 5/8 in., japanned iron face, rosewood handle .....Each 2.20
Extra Blades for No. 212.....Each .30

Planes One in a Box
Extra Blades Six in a Box

TOOTHING CUTTERS

Extra Cast Steel Cutters

For Nos. 12, 12 1/2 and 112 scrapers, 22, 28 or 32 teeth to the inch, width 3 inches .....Each $0.60

Six in a Box

NOTE—When ordering toothing cutters, specify number of the scraper and number of teeth per inch desired.

CABINET SCRAPERS

STANLEY'S HANDLED

The blade can be sprung to a slight curve by means of a thumb screw, giving ease of operation and quickness of cut.

No. 80—Length 11 in., blade 2⅜ in., japanned.....Per dozen $16.75

Extra Blades for No. 80.....Each .40

Scrapers Twelfth Dozen in a Box
Extra Blades Twelve in a Box

Rosewood face, for use in finest cabinet work. Raised handles. Body and handles cast in one piece.

No. 81—Length 10 inches, blade 2½ inches, nickeled .....Per dozen $22.25

Extra Blades for No. 81.....Each .40

Scrapers Twelfth Dozen in a Box
Extra Blades Twelve in a Box

STANLEY'S ADJUSTABLE

Has adjustable single handle which can be tilted to give blade any angle desired. Special blades of different widths can be securely held in any position required, permitting the tool to be worked in many places.

No. 82—Length 14½ inches, blade 3 inches, japanned.....Per dozen $17.25

Extra Blades for No. 82.....Each .40

Scrapers Twelfth Dozen in a Box
Extra Blades Twelve in a Box

DIKEMAN'S HAND REST

The low down hand rest permits a natural easy position for the hand and fingers, and the ball socket adjustments allow the desired angle to the blade.

No. 125—Length 11 inches, blade 3 x 5 inches ....Per dozen $18.50

Extra Blades for No. 125.....Each .40

Scrapers Twelfth Dozen in a Box
Extra Blades Twelve in a Box

CABINET SCRAPERS

ATKIN'S PERFECTION

Malleable frame, nickel plated adjustable blade holder, hardwood handle

Perfection—Length 12 inches, blade 3 x 3 inches.....Per dozen $13.00

Half Dozen in a Box

Extra Blades for Perfection..Per dozen 2.00

One Dozen in a box

ATKINS' RAM'S HORN

Varnished hardwood frame, japanned cast holder, wing nut adjustment. No. 19 ga. beveled edge silver steel blade.

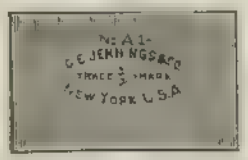
No. RS—12 in. long.....Per dozen $10.00

Twelfth Dozen in a Box

Extra Blades—For RS, 3x3½ in. Per doz $2.00

One Dozen in a Box

PLAIN STEEL



Extra quality, made from best 19 gauge saw steel, smithed and blocked by hand, edges finished ready for use.

A1, inches	**2x5**	**2½x5**	**3x4**	**3x5**
Per dozen	$2.80	2.90	3.00	3.10
A1, inches	**3x6**	**4x5**	**4x6**	
Per dozen	$3.20	3.30	3.40	

One Dozen in a Box

Best quality 19 gauge crucible cast steel, tempered and polished.

Nos.	**25**	**25½**	**34**	**35**
Inches	2x5	2½x5	3x4	3x5
Per doz	$0.40	.50	.45	.55
Nos.	**36**	**45**	**46**	
Inches	3x6	4x5	4x6	
Per doz	$.65	.80	.90	

One Dozen in a Box

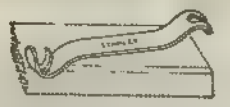
SWAN NECK

Best quality crucible cast steel, tempered and polished.

No. SN35—Size 3 x 5 in.....Per dozen $1.90

One Dozen in a Box .

CORNERING TOOLS



Nickel plated steel, for rounding sharp edges. They have a different size cutter at each end and their form is such that no depth gauge is required. 5½ in. long.

No. 28—⅛ and ¼ in. cutter...Per dozen $3.00

No. 29—⅛ and ¼ in. cutter. .Per dozen 3.00

Half Dozen in a Box

BURNISHER OR SCRAPER

Rosewood handle, taper steel blade

Taper

No. 856—Length of blade 2⅛ inches.

Per dozen $4.80

Half Dozen in a Box

BURNISHERS

Applewood handle, mirror finish, straight steel oval blade.

Cabinet-Makers

No. 91—Length blade, in...	3	4	5
Per dozen	$4.50	5.00	6.75

Half Dozen in a Box

Rosewood handle, mirror finish, straight slim steel blade.

Oval

No. 871—Length of blade 3 in..Per doz. $6.00

Half Dozen in a Box

FLOOR SCRAPERS

The knife is 6 inches wide, scrapes the floor when the machine is drawn towards the operator and will therefore work up to the wall and into the corners. The knife is firmly clamped in the scraper. The 5 inch wheels are rubber tired so as not to mar the floor.

Finished in aluminum. Length of handle and braces, 38½ inches.

No. 10—Weight 100 pounds.....Each $18.00

One in a Box

EXTRA BLADES

For No. 10 Floor scraper, length 6 inches, width 2½ inches, 13 gauge. These blades are without slots, and can be used nearly the whole width. Single bevel on edges, hardened, tempered, ground and polished.

Per dozen $4.00

One Dozen in a Box

No. 51 Self-Feed Radial Drill

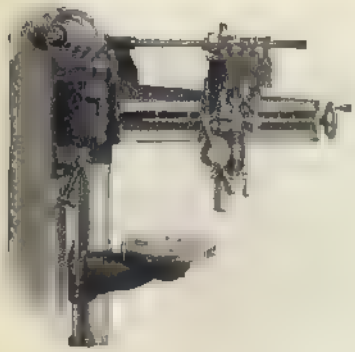


Fig. 1494

Furnished with 2½-Foot or 3 -Foot Arm

Equipped with quick return lever, serving as pilot wheel to move spindle. Four changes of feed conveniently arranged for instantaneous change. Automatic cut off. For general description of drill, see No. 50 below. Net weight, 850 pounds.

List price, 2½-foot arm ..... each $300 00
List price, 3½-foot arm ..... each 325 00

No. 50 Wall or Post Radial Drill

Specifications

Height of drill, 80 inches; drills to center of circle outside of column, 64 inches with 2½-foot arm—84 inches with 3½-foot arm; greatest distance of center of spindle to column, 32 inches with 2½-foot arm—42 inches with 3½-foot arm; smallest distance of center of spindle to column, 7 inches, greatest distance of spindle to table, 18 inches, traverse of spindle up and down, 6 inches; diameter of spindle inside of sleeve, 1⅝ inches; diameter of [illegible] size of [illegible] 5⅝ inches; [illegible] face; [illegible] loose pulleys, 8 x 2½-inch face; speed of countershaft [illegible] R. P. M.; [illegible] spindle, No. 3 Morse, will carry 1¼-inch drill.

Equipped with all necessary gear guards (not illustrated). [illegible] part of regular equipment. Post not furnished with drill.

List price ..... each $200 00

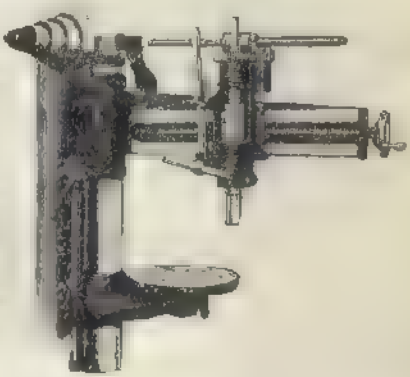


Fig. 1495

Furnished with 2½-Foot or 3½-Foot Arm

This drill has [illegible] and provided with [illegible] and adjustable [illegible] part driven by [illegible] work [illegible] read [illegible] by power as heretofore. The [illegible] also, all [illegible] up to [illegible] and [illegible]

Every machine known [illegible] type of drill represented [illegible] machine are [illegible] stationary spindle type. This [illegible] bracket [illegible] machine [illegible] shapes, [illegible] where [illegible]

The arm may be [illegible] and [illegible] by a four-inch [illegible] with [illegible] which should [illegible] the [illegible] The spindle head [illegible] arm by means of [illegible] and [illegible] clamped in any position. The spindle has a quick return [illegible] and feed lever.

High Speed, Back-Geared Crank Shapers

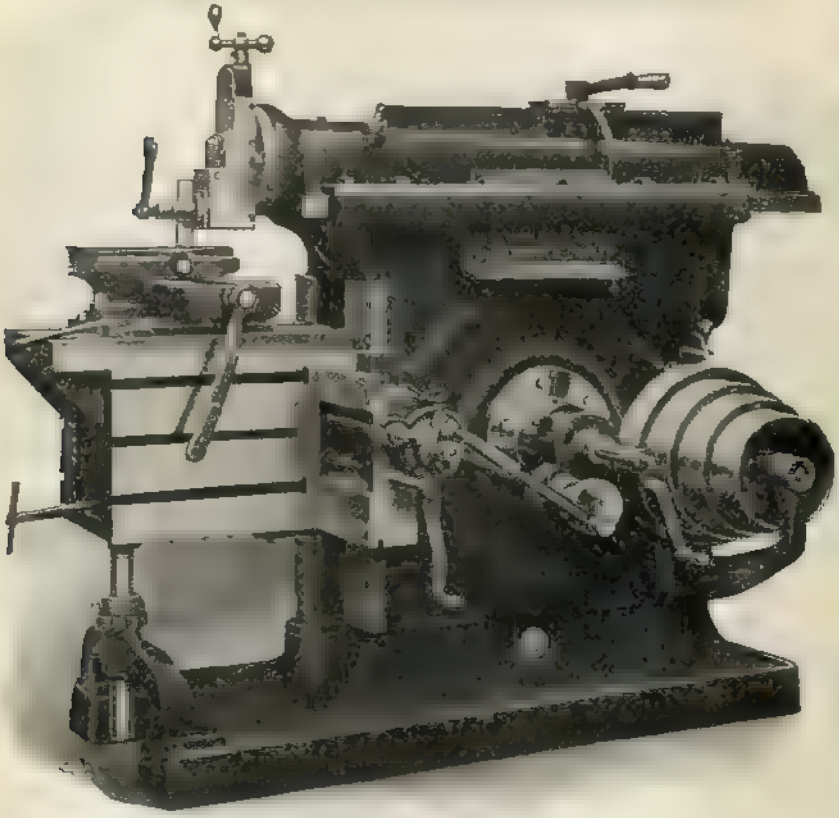


Fig. 149c

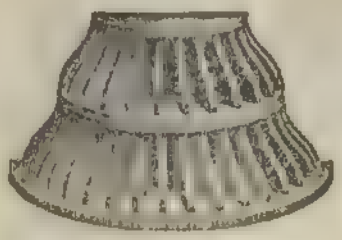
No.	Size of Machine Inches	Extreme Length of Stroke In	Cross Motion of Table Inches	Vertical Adjustment, Inches	Dia. at Table and Horn, In.	Width of Tool Block, Inches	Feed of Tool Block, Inches	Rate Bearing in Column, Inches	Length of Top of Table Inches	Width of Top of Table Inches	Key-seating Capacity In	Size of Vise Jaws, Inches	Opening in Vise Inches	Cone Changes	Width of Belt Inches	No. of Speeds to Ram	Size Counter-shaft Pulleys, Inches	Speed of Counter-shaft, R.P.M.	Wt. Domestic Shipment about Pounds
05	16	17	22	14½	17⅜	⅝x1⅜	6	20	17	6½	4	4x2	10	4	2½	6	12x3¾	300	2600
06	20	21	25	16	18½	¾x1⅝	7	25	21	8½	4½	12x2¼	11	4	2¾	6	14x4¼	330	3250
07	25	26	29	25	18	⅞x1⅝	8	41	25	14	4	13x2¼	12	4	3	8	14x4½	330	4050

Design. These shapers are from entirely new and heavy patterns of modern type, and include all the late improvements. The columns are of generous proportions, heavy and strong, having projections both front and back for the ram slides. The outside column is well braced and ribbed to resist any strain of the working parts. The ram, cross rail and table are of proper proportions, strong, well braced and ribbed. The base covers a large area, is extra heavy, well ribbed and provided with projections for attaching a table support when necessary.

AXE RACKS

SENSIBLE

Hardwood, Oil Finished; Top and Edges Painted Red and Varnished



Two of these Racks, Placed Back to Back, Form a Circular Receptacle for 64 Handled or Unhandled Axes.

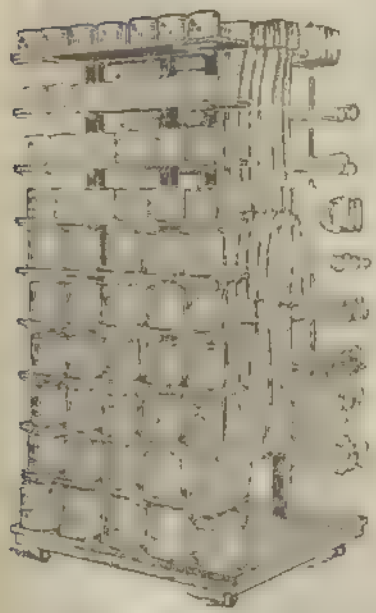
Showing Sensible Rack Displaying Handled and Unhandled Axes

Each

No. 4—Capacity 20 Axes, Handled or Unhandled; Length 22½ inches; Width 11¼ inches; Height 23¾ inches..... $5 00

One in a Crate; Weight 26 lbs.

COMBINATION WIRE CLOTH AND AXE RACKS



Holds 18 Rolls Wire Cloth for ready use and 18 Rolls for Stock. Cut shows Rack used for other purpose than Wire Cloth; will hold Three Dozen Axes nicely and display them to good advantage. The Stock can be placed on the many other Articles carried, has Ball Bearing Casters and may be moved to any part of the Store, saves Space, Protects Stock, Neatly Finished and Well Built, takes a Floor Space of 31x36 inches

Each

†Millners—6 feet High; Weight about 100 lbs... $24 00

Shipped Knocked Down, One in a Crate

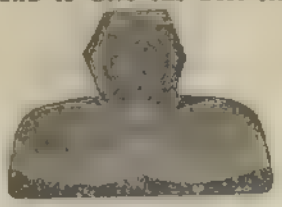
Items Marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, F. O. B. Miami, Okla.

BROAD AXES

Used for Hewing and Shaping Large Timbers, by Ship and Bridge Carpenters, Tie Makers, etc.

★DIAMOND EDGE

Highest Grade Refined Crucible Tool Steel; Perfectly Welded and Tempered; Accurately Shaped, Beveled and Ground; Highly Polished; Correctly Balanced. Made to Withstand Hard Usage and to Give the Best Results.



★DIAMOND EDGE

No. DE20—CANADA PATTERN

Gold Bronzed and Labeled; Polished Bit and Head.

Weights, Lbs.	5½	6	6½	7	7½	8	8½
Width Cut In.	10	10½	11	11	11	11½	12
Wt. Doz., Lbs.	86	92	98	104	110	116	122
Per Dozen...	$68.00	68.00	70.00	70.00	72.00	72.00	75.00

Half Dozen in a Case.

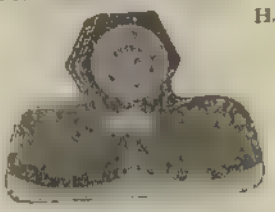
★DIAMOND EDGE

No. DE25—PENNSYLVANIA PATTERN

Gold Bronzed and Labeled; Polished Bit and Head.

Weights, Lbs..	6½	7	7½	8	8½
Width Cut, In..	11	11	11	11½	12
Wt Doz , Lbs	98	104	110	116	122
Per Dozen	$60.00	60.00	64.00	64.00	68.00

Half Dozen in a Case



★DIAMOND EDGE

No. DEH10 -CANADA PATTERN

Hand Made; Natural Black Finish, Honed Bevel.

Weights, Lbs.....	6	6½	7	7½	8	8½
Width Cut, Inches..	10½	10½	11	11	11½	12
Weight Dozen, Lbs.	92	98	104	110	116	122
Per Dozen.....	$68.00	70 00	70 00	72.00	72 00	75.00

Half Dozen in a Case

★BRIDGE

No. B110—CANADA PATTERN

Fire Bronzed and Labeled; Polished Bit and Head.

Crucible Forged Steel Bit; Soft Steel Body; Extra Ground and Finished

Weights, lbs	6½	7	7½	8	8½
Width Cut, Inches....	10½	11	11	11½	12
Weight Dozen, Lbs...	98	104	110	116	122
Per Dozen.....	$72 00	72.00	74 00	74.00	78.00

Half Dozen in a Case.

BARTON

No. B10 CANADA PATTERN

Crucible Steel Bit, Soft Steel Body; Black Finish, Polished Bit and Head.

Weight, lbs.....	7	7	7
Width Cut, inches..	11	11	11
Weight Doz., lbs....	104	110	116
Per Dozen..	$100 00	100 00	100 00
Weight, lbs.....	7½	8	8½
Width Cut, inches..	11½	11½	11½
Weight Doz., lbs...	122	122	122
Per Dozen..	$100 00	100 00	100 00
Weight, lbs	8½	8½	9
Width Cut, inches..	12	12	12
Weight Doz., lbs	122	122	122
Per Dozen.	$100 00	100 00	100 00

Half Dozen in a Case

CARPENTERS ADZES

★DIAMOND EDGE

Half Head

Gold Bronzed Finish

Lengths 9 to 10 inches.

Nos.	DEC3DE	C3½	DEC4	DEC4½
Wt. Each, lbs.	3½	3¾	4	
Per Dozen...	$32 00	32 00	32 00	32 00

Half Dozen in a Case

★DIAMOND EDGE

HAND MADE

Half Head

Natural Black Finish

Lengths 9 to 10 inches.

Nos.	DHC3½	DHC4	DHC4½
Wt. Each, lbs...	3½	4	4½
Per Dozen	$34 00	34 00	34.00

Half Dozen in a Case

★BRIDGE

Half Head

Fire Bronzed Finish Body; Polished Bit and Head; High Quality Crucible Steel Tempered Bit and Head; Soft Steel Body

Lengths 9 to 10 inches.

Nos.	BC3½	BC4	BC4½
Width Cut, in.	3½	4	
Wt. Each, lbs..	3¾	4	4½
Per Dozen.....	$33 00	33.00	33.00

One Dozen in a Case.

WHITE

Half Head

Japanned Body, Polished Bit and Head; Soft Steel Body; Crucible Forged Steel Bit; Hardened Head; Ground and Tempered Cutting Edge

Length 9 to 10 inches.

Nos.	WC4	WC4¼	WC4½
Width Cut in.			4½
Wt. Each,			
Per Doz	$56 00	56 00	58 00

Half Dozen in a Box

RAILROAD ADZES

★DIAMOND EDGE

Full Head

Gold Bronzed Polished Bit, Extra Refined Cast Steel, Crucible Cast Steel; Oil Tempered Ground and Sharpened Cutting Edge; Laid Steel Head, Eye Punched from Solid Steel.

No.	DLR5
Width Cut, inches	
Weight, lbs.	
Weight Dozen, lbs	48
Per Dozen,	$32 00

Half Dozen in a Case

★BRIDGE

Full Head

Fire Bronzed (Red) Finish Body; Polished Bit and Head. High Quality, Tool Steel Tempered Bit, High Carbon Steel Body and Head.

No.	BR5
Width Cut, inches.	
Weight, lbs.	1
Weight Dozen, lbs.	8
Per Dozen	$30 00

Half Dozen in a Case

ROAD BOSS

Full Head

Black Finish Labeled; One Piece; Solid Steel; Bit is Carefully Tempered and Ground.

No.	RB5
Width Cut, inches	5
Weight, lbs.	
Weight Dozen, lbs.	69
Per Dozen...	$22 00
Half Dozen	

COOPERS

WHITE

Used for Driving Hoops on Barrels. Extra Refined Cast Steel Head, Polished, Inside and Face Japanned; Applewood Handle Set in Deep Socket, with Iron Rod Through Entire Length

Per Dozen

No. W2—	Weight Each 3
	$60.00
W1	Weight Each 64 00

Loose

SHIP CARPENTERS ADZES

★DIAMOND EDGE

PLAIN BIT

Spur Head

Gold Bronzed Finish; Polished Bit, Head and Spur; Extra Refined High Grade Cast Steel; Oil Tempered, Ground and Sharpened Cutting Edge; Eye Punched from Solid Steel.

Per Dozen

No. DE4½—Width of Cut 3½ and 4 inches; Weight 3½ to 4 lbs. $35 00

Half Doz. in Case; Average Wt. per Doz. 150 lbs.

★DIAMOND EDGE

Spur Head; Lipped Bit

Gold Bronzed Finish, Polished Bit, Head and Spur; Extra Refined High Grade Cast Steel; Oil Tempered, Ground and Sharpened Cutting Edge; Eye Punched from Solid Steel.

Per Dozen

No. DE14½—Width of Cut 3½ and 4 inches; Weight 3½ to 4 lbs. $46 00

Half Doz. in Case; Average Wt. per Doz. 150 lbs.

★DIAMOND EDGE

HAND MADE

Spur Head; Plain Bit

Dead Black Finish; Polished Head and Cutting Edge, Highest Grade Crucible Cast Steel; Oil Tempered Bit.

Per Dozen

No. DE14½—Width of Cut 4 and 4½ inches; Weight 4 to 4½ lbs. $36 00

Half Doz. in Case.

Average Weight per Dozen 160 lbs.

WHITE

Spur Head; Plain Bit

Extra Refined Cast Steel, **Japanned Body.** Polished Head and Bit.

Nos.	W4	W4½	W4½
Width Cut, in.	4	4½	4½
Weight, lbs.			2½
Per Doz..	$64.00	64.00	70 00

Loose

SETH THOMAS CLOCK CO.'S FINE REGULATORS

PRICES EACH.

From the Standpoint of Expert Construction, Accurate Timekeeping Qualities and Satisfactory Service, these Regulators are unsurpassed.

REGULATOR No. 70

Mahogany and Old Oak. Eight Day Weight Time Beats Seconds. 14 inch Dial Height 76 inches. Large movement with heavy polished plate. Cut steel pinions. Graham dead-beat escapement with sapphire jeweled pallets. Wood rod. Brass-covered zinc ball. Maintaining power. An excellent time piece.

No. 5288	Mahogany	Each	$170 25
No. 5289	Old Oak	Each	170 25

REGULATOR No. 4

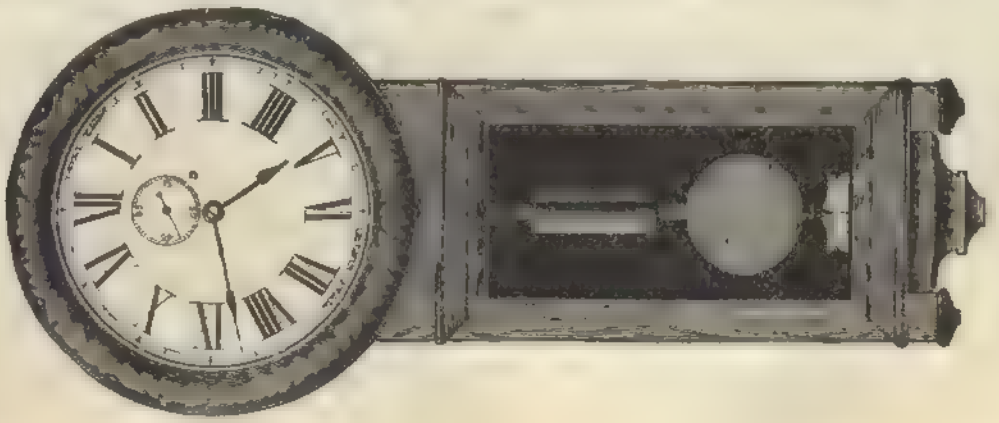
Mahogany and Old Oak. Eight Day Weight, Time 12 Inch Dial Height 62 inches. Has same movement as No. 2 and is shown here. Seventy-two beats to the minute.

No. 7290	Mahogany	Each	$70 95
No. 7291	Old Oak.	Each	70 95

REGULATOR No. 20

Mahogany and Old Oak. Eight Day, Weight, Time Beats Seconds. 14 inch Dial Height, 62 inches. Large movement with heavy polished plate. Cut steel pinions. Graham dead beat escapement with sapphire jeweled pallets. Wood rod. Brass-covered zinc ball. Maintaining power. An excellent time piece. The round top and two side pieces can be removed if a plain top casing is desired.

No. 7292	Mahogany	Each	$116 30
No. 7293	Old Oak	Each	116 30



REGULATOR No. 2

A Standard Wood Regulator for Railroads, Steamboats, Offices etc. Mahogany or Old Oak Finish. Weight, Time Polished Brass Dial 63 inches. Movement has strong well finished plates, and is secured to an iron bracket, pendulum is suspended from same. Graham dead beat escapement. Wood rod. Brass-covered zinc ball. Eight beats to the minute. Has maintaining power.

No. 5284	Mahogany	Each	$49 95
No. 5285	Old Oak	Each	49 95

NEW HAVEN CLOCK CO.'S FINE HALL AND LIBRARY CLOCKS

These very latest and pleasing styles are bound to win the admiration of the Trade. They harmonize with present-day period furnishing. Fitted with The New Haven Celebrated Cathedral Gong -The Gong with a Marvelously Rich and Sweet Tone—so perfected, that it is acknowledged to be the PEER OF ALL GONGS by Clock Manufacturers.

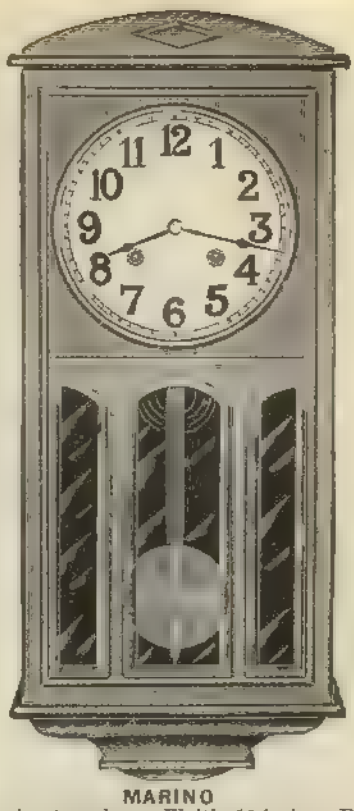
GUARANTEED
ACCURATE TIMEKEEPERS.

PRICES EACH

MIMOSA

Height 26¾ inches. Width, 10¾ inches. Dial, Silver Finish, 8 inches. Case, Mahogany Finish or Oak, with Leaded Glass. Movement, 8-Day, Half-hour Strike, Cathedral Gong.

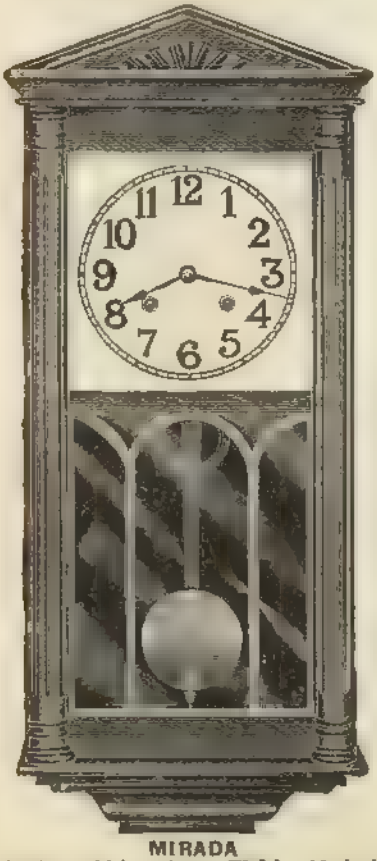
No. 5296 Mahogany Finish, each $25 30
No. 5297 Oak, each 25 30



MARINO

Height, 26 inches. Width, 11 inches. Dial, Silver Finish, 8 inches. Case, Mahogany Finish or Oak, with Beveled Glass. Movement, 8-Day, Half-hour Strike, Cathedral Gong.

No. 5298 Mahogany Finish, each $24 00
No. 5299 Oak, each 29 00



MIRADA

Height, 28¼ inches. Width, 12 inches. Dial, Silver Finish, 8 inches. Case, Mahogany Finish or Oak, with Leaded Glass. Movement, 8-Day, Half-hour Strike, Cathedral Gong.

No. 5303 Mahogany Finish, each $28 00
No. 5304 Oak, each 28 00

RIVERTON

Height, 34½ inches. Width, 15¾ inches. Dial, 12 inches. Case, Solid Oak.

Eight-Day, Time Movement

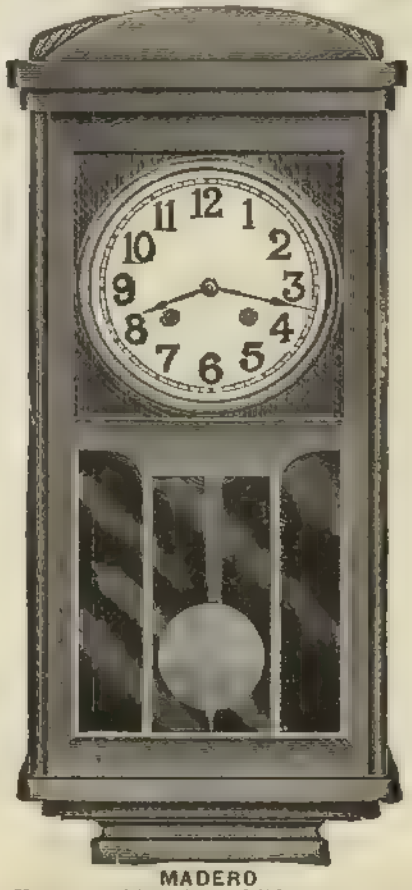
No. 5300 Each $21 35

Eight-Day, Half-Hour Strike, Cathedral Gong Movement

No. 5301 Each $24 00

Thirty-Day Time Movement

No. 5302 Each $24 30



MADERO

Height, 28¾ inches. Width, 13 inches. Dial, Silver Finish, 8 inches. Case, Mahogany Finish or Oak, with Leaded Glass. Movement, 8-Day, Half-hour Strike, Cathedral Gong.

No. 5305 Mahogany Finish, each $28 00
No. 5306 Oak, each 28 00

SETH THOMAS CLOCK CO.'S FINE CRYSTAL REGULATORS

METAL CASES, GOLD-PLATED AND LACQUERED

Beveled Plate Glass Front, Sides and Back. Eight-Day, Round Fine Movement, Hour and Half-hour Rack Strike, Cathedral Bell. 4 inch Porcelain Dials.

High Grade, Reliable Movements — **Guaranteed Accurate Timekeepers**

Ideal Wedding or Anniversary Gifts

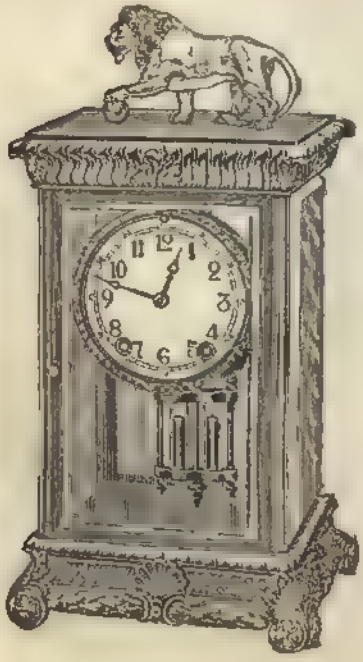
PRICES EACH

EMPIRE No. 200
Polished Gold Finish. Round Corners.
Height, 9¼ inches.
No. 5120 Each.....$52.50

EMPIRE No. 201 EXTRA
Rich Gold Finish. Sharp Corners.
Height, 9¼ inches.
No. 5121 Each.....$52.50

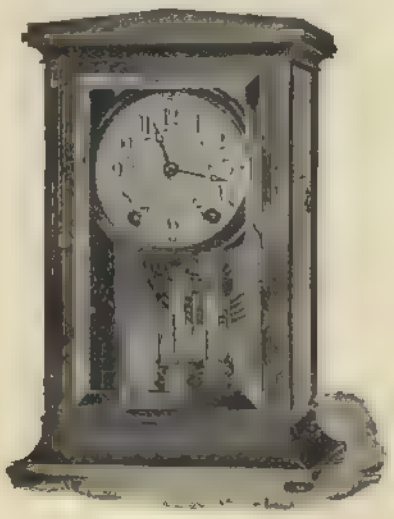
EMPIRE No. 303
Ground Concave Top and Base
Height, 10 inches.
No. 5122 Each.....$53 90

All clocks are thoroughly regulated and most rigidly inspected before leaving factory, thus insuring accurate time-keeping qualities.



EMPIRE No. 13
No 5123 Rich Gold Finish Each $53 90
No 5124 Bronze Finish. Each..... 52.50
Height, 11½ inches

EMPIRE No. 13 AND LION
No. 5125 Rich Gold Finish Each $56 75
No. 5126 Bronze Finish. Each..... 55.35
Height Clock with Lion, 15¼ inches.



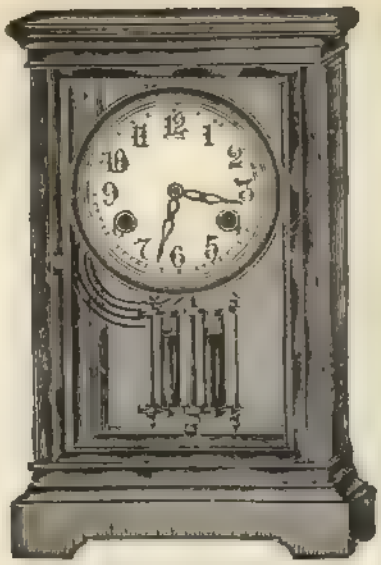
EMPIRE No. 23
Rich Gold Finish. Concave Base
Height, 11½ inches
No 5127 Each.....$78.00
Metal Dial Silvered with Raised Bronze Numerals.
No. 5128 Each.....$81.60

EMPIRE No. 11
No. 5129 Rich Gold Finish. Each $53 90
No. 5130 Bronze Finish. Each.. 52 50
Height, 14 inches.

Waterbury Clock Co.'s Fine Crystal Cabinet Regulators

Polished Brass, Rich Gold Plated, Genuine Mahogany or Circassian Walnut Finish Cases. 8 Day, Half-hour Strike, Gong Movement.

PRICES EACH



BREST CLOCK—(Description to Right)

BREST

Polished Brass or Rich Gold Plated. 8 Day, Half-hour Strike, Gong. 3½ inch Ivory Dial. Cast Gilt Bezel. Beveled Glass Front, Sides and Back. Height, 9¼ inches. Width, 5¾ inches.

No. 5108 Polished Brass. Each $46 00
No. 5109 Rich Gold Plated. Each 51 20

TROUVILLE

Mahogany or Circassian Walnut Finish

8 Day Half-hour Strike, Gong. 3½ inch Ivory Dial. Cast Gilt Bezel. Beveled Glass Front and Back. Height, 9⅛ inches. Width 5⅜ inches.

No. 5110 Genuine Mahogany. Each $38 75
No. 5111 Circassian Walnut Finish. Each 58 75

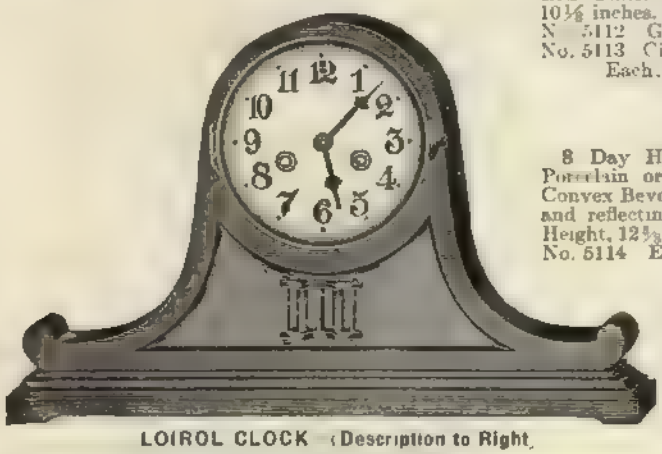
TROUVILLE CLOCK— (Description to Left)

LOIROL

Mahogany or Circassian Walnut Finish

8 Day, Half-hour Strike, Gong. 5 inch Porcelain Dial. Cast Sash. Convex Beveled Glass. Beveled Glass Front. Height, 10½ inches. Width, 16 inches.

No. 5112 Genuine Mahogany. Each $52 80
No. 5113 Circassian Walnut Finish Each. $52 80



LOIROL CLOCK (Description to Right)

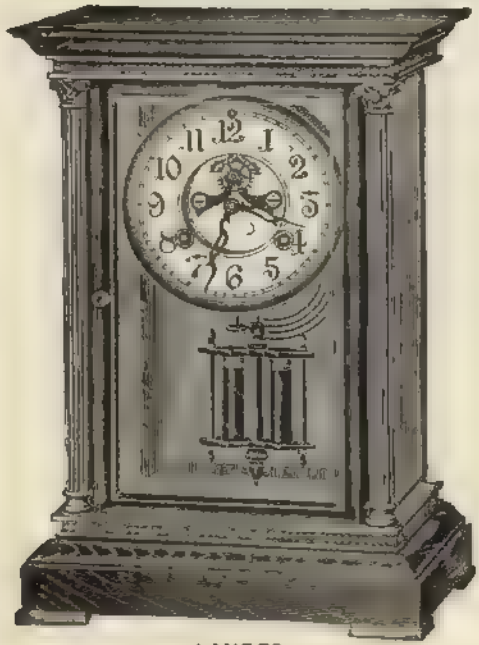
VERCELLE

Genuine Mahogany

8 Day Half-hour Strike Gong. 5 inch Porcelain or Silver Dial. Cast Gilt Sash. Convex Beveled Glass. Beveled Glass Front and reflecting mirror at back of pendulum. Height, 12⅝ inches. Width, 9⅝ inches.

No. 5114 Each $53.35

VERCELLE CLOCK (Description to Left)



LANDES

Rich Gold Plated Polished Mahogany Columns, Base and Top. 8 Day, Half-hour Strike Gong. 4¼ inch Ivory Dial. Ivory Center. Visible Escapement. Cast Gilt Bezel. Beveled Glass Front, Sides and Back. Height 10⅝ inches. Width, 7⅞ inches.

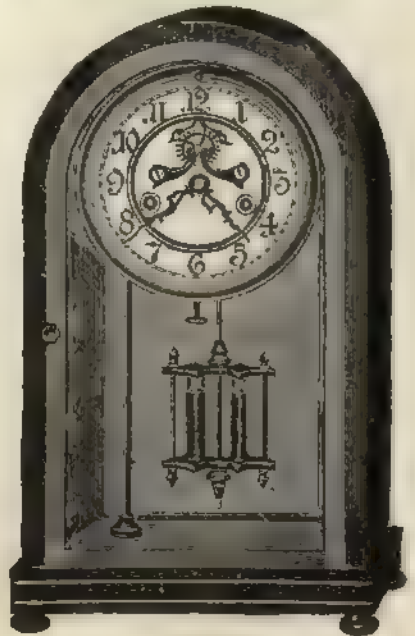
No. 5115 Each $54 40

RICHELIEU

Mahogany or Circassian Walnut Finish

8 Day, Half-hour Strike Gong. 4½ inch Ivory Dial. Cast Gilt Bezel. Beveled Glass Front and Back. Height, 10¾ inches. Width, 6½ inches.

No. 5116 Genuine Mahogany. Each $48 40
No. 5117 Circassian Walnut Finish Each 48.40



LOIRET

Mahogany or Circassian Walnut Finish

8 Day, Half-hour Strike Gong. 4½ inch Ivory Dial. Ivory Center. Visible Escapement. Cast Gilt Bezel. Beveled Glass Front and Back. Height 11¼ inches. Width 6½ inches.

No. 5118 Genuine Mahogany. Each $48 00
No. 5119 Circassian Walnut Finish Each 48 00

Try out a KOLESCH Instrument on your work —at our expense.

We will gladly send Municipal Engineers an instrument to test, without any obligation to purchase until it has proved its worth. KOLESCH GIVES SERVICE.

Send for Catalog of our complete line of High Grade Engineers' Instruments and Supplies.

Transit 7670

KOLESCH & CO., 138 Fulton St., New York

"The Spring's the Thing"

SHAWNEE MOWER CO., 5 Beekman St., N. Y.

BUFF

ENGINEERING INSTRUMENTS

are the strongest, most accurate and longest-lived Instruments built. The close accuracy, high grade materials and superior workmanship have made the Buff the recognized standard. *Write for catalog No. 4.*

BUFF & BUFF MFG. CO.

Jamaica Plains, BOSTON, MASS. 221 Lamartine Street

231 N. Fifth Ave., Chicago, Ill.

ODORLESS STAINLESS

DUSTOLINE FOR ROADS

TRACKLESS (TRADE MARK) TRANSPARENT

THE DUSTOLINE FOR ROADS CO., Summit, N. J., Phone 33

Has none of the objectionable features of the black asphaltic oils or tar preparations

Street Signs Road Guide Posts Traffic Signs

The Kind That Last

Made of Heavy Galvanized Iron with letters sunken into plate.

If you are looking for *permanent* signs instead of the short lived ordinary variety write to us for prices, illustrations and further particulars.

Union Iron Products Co.

Drawer H-2 E. CHICAGO, IND.

Littleford Tar Heaters

Many municipalities have found the "Littleford" a valuable and economical asset in Street Repair work. Write for booklet.

LITTLEFORD BROS. 500 E. Pearl St., Cincinnati

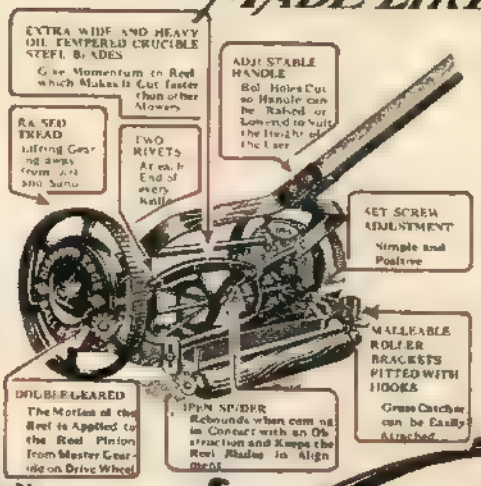
DIAMOND EDGE TOOLS

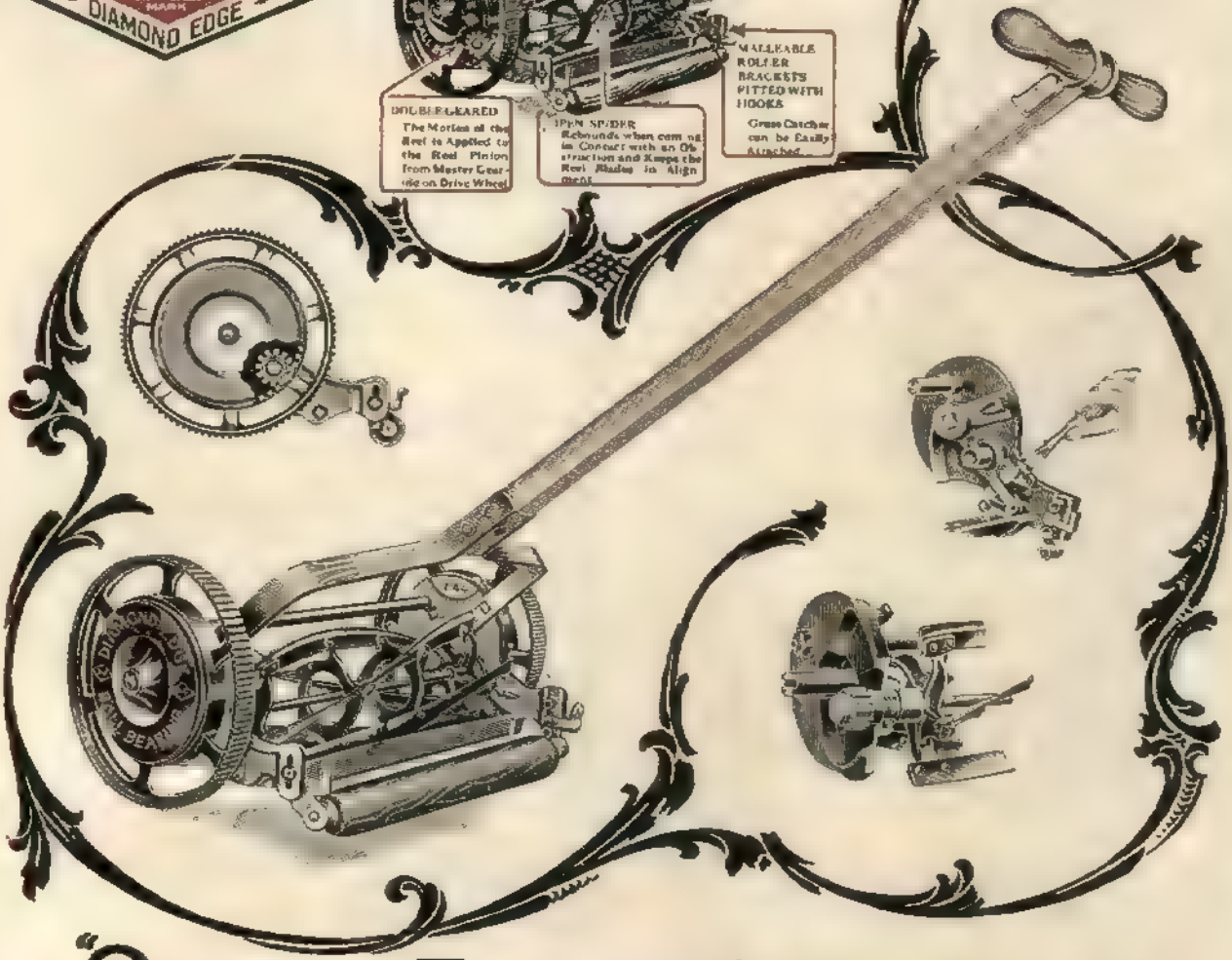
"DIAMOND EDGE IS A QUALITY PLEDGE"

DIAMOND EDGE LAWN MOWER

"MADE LIKE A WATCH"

SHAPLEIGH HARDWARE CO.
DE MARK
DIAMOND EDGE



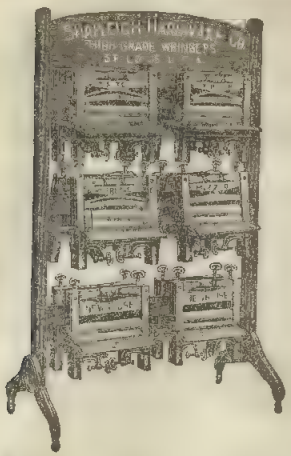


"DIAMOND EDGE IS A QUALITY PLEDGE"

CLOTHES WRINGER ASSORTMENTS

WITH DISPLAY STANDS

Stands are Strongly Made of Hardwood, Finished in Bright Colors and Gold Lettering; with Strong Cast Iron Bases Attractively Decorated in Bright Colors and Mounted on Ball Bearing Casters. Brass Hooks for Hanging Wringers.



12 Piece Wringer Assortment with Rack No. 17

TWELVE PIECE WRINGER ASSORTMENTS

Especially Adapted for Large Stores or Display Rooms. Height of Stand 6 feet; Occupies 41x20 inch Floor Space.

Per Assortment

No. 12A—Consists of Rack No. 17 and **12 Wringers** as Specified Below; Weight Complete 320 lbs.. ..... **$95.50**

Contains the Following Wringers:

1 No. R591 —Royal	1 No. U350—Universal	1 No. K310—Keystone
1 No. R500 —Royal	1 No. U351—Universal	1 No. R101—Rival
1 No. R500E—Royal	1 No. N391 —Novelty	1 No. R191—Rival
1 No. R501 —Royal	1 No. N300—Novelty	1 No. F10—Falcon

Per Assortment

★**No. 12B**—Consists of Rack No. 17 and **12 Wringers** as Specified Below; Weight Complete 320 lbs **$90 00**

Contains the Following Wringers:

1 No. N167—Newhouse	1 No. T 50—Tip Top	1 No. M 63—Merrimac
1 No. N168—Newhouse	1 No. T 51—Tip Top	1 No. M 73—Merrimac
1 No. N177—Newhouse	1 No. T180—Tip Top	1 No. M110—Mizzoo
1 No N178—Newhouse	1 No. T181—Tip Top	1 No. M111—Mizzoo

Per Assortment

No. 12C Consists of Rack No. 17 and **12 Wringers** as Specified Below; Weight Complete 320 lbs..... **$87.30**

Contains the Following Wringers:

1 No. E350—Empire	1 No. R100 —Rival	1 No. R191—Rival
1 No. U350 -Universal	1 No. R101 —Rival	1 No. R192—Rival
1 No. K310—Keystone	1 No. N300E—Novelty	1 No. F 10—Falcon
1 No. N300—Novelty	1 No. R190 —Rival	1 No. F 11—Falcon

Stand Crated; Wringer Cased

SIX PIECE WRINGER ASSORTMENTS

Height of Stand 6 feet; Occupies 20x20 inch Floor Space; Mounted on Casters

Per Assortment

★**No. 6A**—Consists of Rack No. 14 and **6 Wringers** as Specified Below; Weight Complete 190 lbs...**$46.00**

Contains the Following Wringers:

1 No. N167 -Newhouse	1 No. M63—Merrimac	1 No. T50—Tip Top
1 No. N177—Newhouse	1 No. M73—Merrimac	1 No. T51—Tip Top

Per Assortment

No. 6B—Consists of Rack No. 14 and **6 Wringers** as Specified Below; Weight Complete 190 lbs. .**$42 70**

Contains the Following Wringers:

1 No. U350—Universal	1 No. N301—Novelty	1 No. R100—Rival
1 No. E350—Empire	1 No. K311—Keystone	1 No. F10—Falcon

Per Assortment

★**No. 6C**—Consists of Rack No. 14 and **6 Wringers** as Specified Below; Weight Complete 190 lbs...**$41.00**

Contains the Following Wringers:

1 No M63—Merrimac	1 No. T51 —Tip Top	1 No M110—Mizzoo
1 No. T50—Tip Top	1 No. T180—Tip Top	1 No. M111—Mizzoo

Per Assortment

No. 6D—Consists of Rack No. 14 and **6 Wringers** as Specified Below; Weight Complete 190 lbs...**$39.00**

Contains the Following Wringers:

1 No. R501—Royal	1 No. U351 Universal	1 No. R101 Rival
1 No. R591—Royal	1 No. U581—Universal	1 No. R191 Rival

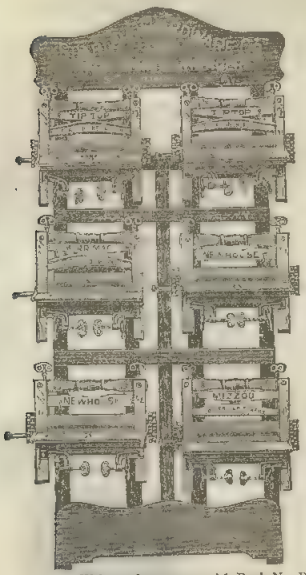
Stand Crated; Wringers Cased

6 Piece Wringer Assortment with Rack No. 14

CLOTHES WRINGER ASSORTMENTS

WITH DISPLAY RACKS

Stands are Strongly Made of Hardwood with Easel Back; Finished in Bright Colors and Gold Lettering with Brass Hooks for Hanging Wringers.



6-Piece Wringer Assortment with Rack No. B

SIX PIECE WRINGER ASSORTMENTS

With Rack No. B

Height of Rack 5 feet; Occupies 20x28 inches Floor Space

Per Assortment

No. 6J—Consists of Rack No. B and **6 Wringers** as Specified Below; Weight Complete 210 lbs. **$43.70**

Contains the Following Wringers:

1 No. U350 Universal	1 No. E350 Empire	1 No. R100 Rival
1 No. N300 Novelty	1 No. K310E Keystone	1 No. R101 Rival

Per Assortment

No. 6K—Consists of Rack No. B and **6 Wringers** as Specified Below; Weight Complete 210 lbs. **$45 50**

Contains the Following Wringers:

1 No. N167 Newhouse	1 No. M63 Merrimac	1 No. T50 Tip Top
1 No. N168 Newhouse	1 No M73 Merrimac	1 No. T51 Tip Top

Per Assortment

No. 6L—Consists of Rack No. B and **6 Wringers** as Specified Below; Weight Complete 210 lbs. **$47 70**

Contains the Following Wringers:

1 No. R500 Royal	1 No. U351 Universal	1 No. R190 Rival
1 No. C1050 Chemical	1 No. N300E Novelty	1 No. R191 Rival

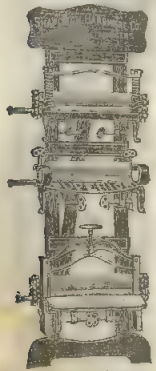
Per Assortment

No. 6M—Consists of Rack No. B and **6 Wringers** as Specified Below; Weight Complete 210 lbs **$47.00**

Contains the Following Wringers:

1 No. R501 Royal	1 No. N381 Novelty	1 No. R100 Rival
1 No. U351 Universal	1 No. K311 Keystone	1 No. R101 Rival

Stand Crated; Wringers Cased



3-Piece Wringer Assortment with Rack No. C.

THREE PIECE WRINGER ASSORTMENTS

With Rack No. A

Height of Rack 5 feet; Occupies 16x24 inches Floor Space

Per Assortment

★**No. 3A**—Consists of Rack No. A and One Each Wringer No. M63 Merrimac, No. T50 Tip Top and No. M110 Mizzoo; Weight Complete 95 lbs. **$20.50**

No. 3B—Consists of Rack No. A and One Each Wringer No. R501 Royal, No. U381 Universal and No. R101 Rival; Weight Complete 95 lbs. **25.20**

★**No. 3C**—Consists of Rack No. A and One Each Wringer No. N168 Newhouse, No. T51 Tip Top and M11 Mizzoo; Weight Complete 95 lbs. **22.50**

THREE PIECE IRON WRINGER ASSORTMENTS

With Rack No. C

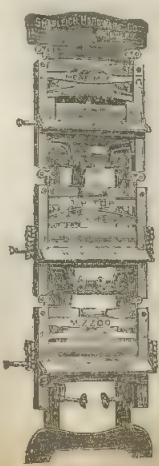
Height 3½ feet; Occupies 16x19 inches Floor Space

Per Assortment

No. 3D—Consists of Rack No. C and One Each Wringer No. S210 Superior, No. R330 Relief and No. ID140 Ideal; Weight 100 lbs. **$20.50**

No. 3E—Consists of Rack No. C and One Each Wringer No. C130 Crescent, No. D100 Daisy and No. M10 Marvel; Weight 100 lbs. **17.40**

tand Crated; Wringers Cased



3-Piece Wringer Assortment with Rack No. A

Sheldon Car Mover

Fig. 1

Price of bar, including one heel complete	each $5 00
Handle only	each 1 50
Shoe complete	each 1.50
Grip	each .25
Large toe plate	each 15
Small toe plate	each 10

The Easy Car Pusher

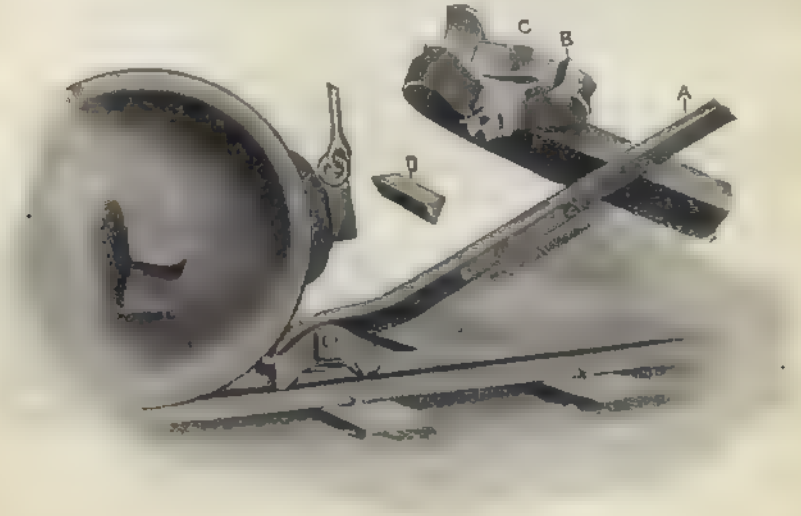


Fig. 112

Price ..... each $5 00

The Combined Diamond Point Pinch Bar and Car Mover

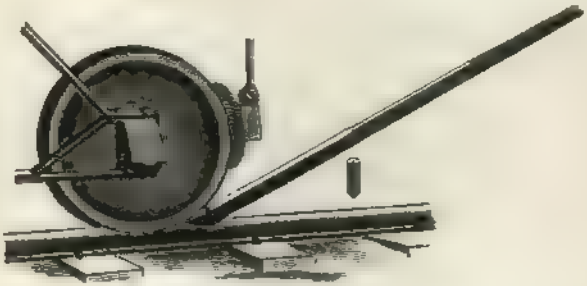


Fig. 113

Price..... ..each $5.00

The Victor Car Mover

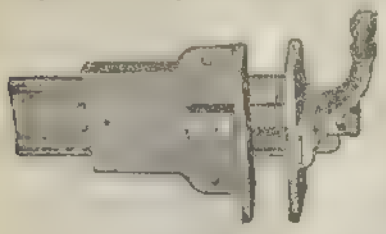
Fig. 114

Price..... each $5.00

BENCH VISES

SHELDON QUICK ACTING

Especially Suitable for Use in Manual Training Schools and where Subject to Heavy and Sudden Strains.



Heavy Gray Iron Frame and Jaws; Drop Forged Steel Rack with Carefully Milled Teeth; Section of Upper Frame, which Engages Rack is Also Made of Drop Forged Steel with Milled Teeth; the Handle and Cam are Malleable Iron; Finished with Olive Green Paint, the Face and Upper Edges of Jaws Polished.

Each

No. 3—Jaws 7¼x3 inches; Jaws Open 8½ inches; Length Over All 16 inches; with Steel Dog in Outer Jaw, which, when Working in Connection with Bench Stop, Forms a Clamp for Work on Top of Bench; Weight 23¼ lbs. **$9.10** 7.00

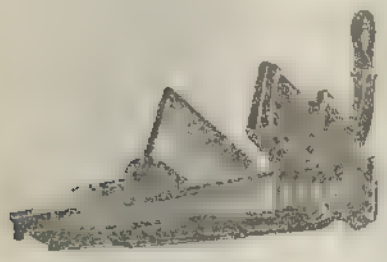
Loose

Each

No. 4—Jaws 7¼x2⅜ inches; Jaws Open 8½ inches; Length Over All 16 inches; Weight 23 lbs. **$7 80** 6 00

No. 5—Jaws 8x3½ inches; Jaws Open 11½ inches; Length Over All 20 inches; Weight 29 lbs. **10 40** 8.00

Loose



Heavy Iron Frame; Drop Forged Steel Rack with carefully Milled Teeth; Malleable Iron Handle and Cam. The Jaws of this Vise are Milled and Polished on Ends, Edges and Inner Grip, giving it a very attractive appearance.

Each

No. 6—Jaws 8¾ inches; Jaws ... inches; Length over ... Steel Dog in the Front Jaw gives this Vise an ... Weight ... lbs. **$11.70** 9.00

Loose

Heavy Iron Frame; Heavy Cold Rolled Steel Screw with a continuous Thread traveling in a Solid Phosphor Bronze Nut and operated by Adjustable Spring Steel Crank Handle.

The Smooth and Positive action of the Screw can be instantly Set in central position for Light Pressure and Rapid Turning, or either of the Two Outer Positions for excessive Pressure; the Steel Jaws and Sliding mechanism are Non-Yielding and Rigid; the Jaws of this Vise are Milled and Polished on Ends, Edges and Inner Grip, giving it a very attractive appearance. Steel Dog gives this Vise a very Large Range of Gripping efficiency.

Nos.	10	12
Size of Jaw, inches	7¼x2⅞	8¼x3¼
Opening of Jaws, inches	8½	11½
Length Over All, inches	16	20½
Weight, lbs.	25½	45
Each	$7.80	$9.80
	9 10	11 70

Loose

BENCH VISES

RICHARDS-WILCOX

Especially Suitable for Use in Manual Training Schools and Where Subject to Heavy and Sudden Strains.

Instantaneous adjustment. Continuous in action. Phosphor Bronze Nut operates entire length of screw. No pawls, racks or triggers to break or wear. Nut is released and completely disengaged when pressure on work is removed by slight reverse movement of handle. No stripping or cutting of threads. When pressure is applied it causes the nut to engage and lock the screw firmly and is not held in position by any external mechanism. Screw is cut with single thread four to one inch, hence has double the power or pressure of vises having screw cut with double thread. Guides are of cold rolled steel. Jaws are of best gray iron with working surfaces ground and finished. Special design of ribs on jaws secures minimum deflection or spring under pressure, as well as minimum weight.

Head or Side Vise

Each

No. 430/1—Jaws 7x4 inches; Jaws open 10 inches; Screw, 1 inch in Diameter, 4 Threads to the inch; Length over all 17 inches; Weight 29½ lbs. **$12 00** 6.00

No. 430/2—Jaws 10x5 inches; Jaws open 12 inches; Screw 1 inch in Diameter, 4 threads to the inch, Length over all 21 inches; Weight 43½ lbs. **14 40** 7 20

Loose

Tail Vise With Brass Stop in Front Jaw

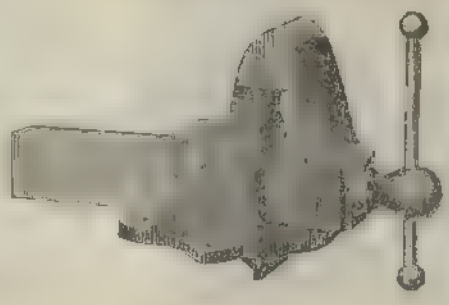
Each

No. 430/1S—Jaws 7x4 inches; Jaws open 10 inches; Screw 1 inch in Diameter, 4 Threads ... inch; Length over all 17 inches; With Brass Dog in Front Jaw $13 20 6 60

No. 430/2S—Jaws 10x5 inches; Jaws open 12 inches; Screw 1 inch in Diameter, 4 Threads to the inch; Length over all 21 inches; With Brass Dog in Front Jaw; Weight 50 lbs. 15 60 7.80

Loose

WOODWORKERS VISES



Solid Jaw

Stationary Base

Japanned Cast Iron Body; Welded Steel Faced Parallel Jaws, Polished Steel Screws and Sliding Handle; Polished Jaws and Slide.

Designed for Use of Carriage and Wagon Makers, Pattern Makers, Wood Workers.

No. 502—Width of Jaws 4½ inches; Jaws open 9 inches closed 13½ inches; Weight 47 lbs. ..... .

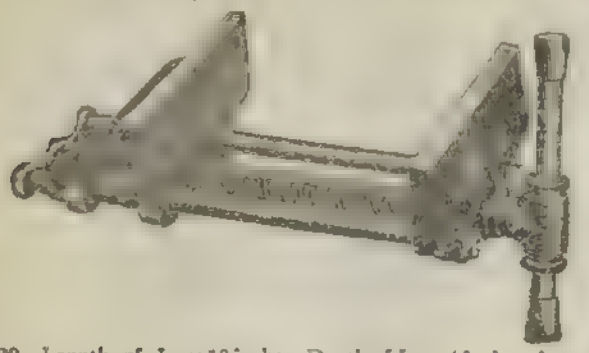
Loose.

BENCH VISES

TOLES

RAPID ACTING

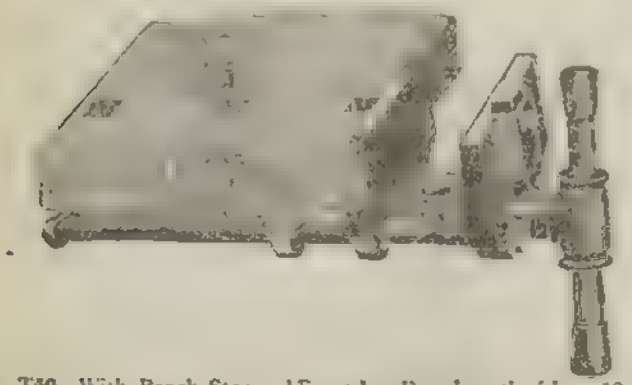
Heavy Iron Frame and Jaws; Heavy Cold Rolled Steel Screw with Patent Principle that allows the Bronze to adjust itself automatically to [illegible] the opening. The adjustments are obtained without the use of Racks, Cams, Pawls, Triggers, Wedges, Worm Gears, etc.: Consequently they will not slip, clog up, wear out or break. The Jaws of these vises are milled and polished on ends, edges and inner Grips, giving them a very attractive appearance.



Each

No. T20—Length of Jaws 10 inches; Depth of Jaws 4 inches; Jaws open 12 inches; Weight 36 lbs. $23 00

Loose



Each

No. T30—With Bench Stop and Front Jaw Dog: Length of Jaws 10 inches; Depth of Jaws 4 inches; Jaws open 12 inches; Weight 39 lbs. $25.00

MASSEY "LIGHTNING GRIP"

These Vises are Built with Hard Us[illegible] with "Lightning [illegible] is Operated by [illegible] of the Handle, giving a [illegible]

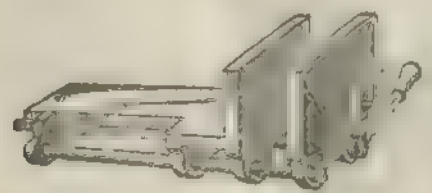
Heavy Gray [illegible] fully Milled To[illegible]ble Iron Handle; Finish, Bl[illegible] the Face and Upper [illegible] of Jaws Polished.

Each

No. 17 [illegible] $13 80

No. 17½ [illegible] 15.00

Loose



Each

No. 23 [illegible] Length of Jaws 8 inches; Depth of Jaws 3 inches; Jaws [illegible] inches, Weight 31 lbs. $11 50

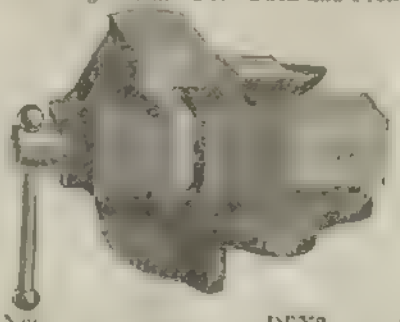
No. 23A- With Tooth Stop in Front Jaw [illegible] 13 10

BENCH VISES

*DIAMOND EDGE

*DIAMOND EDGE Vises are [illegible] for Jewelers and Makers of [illegible] are [illegible] Only the finest materials are Employed in their construction, great care being taken to see that all Parts Fit Accurately.

The Screw (Body, Head and Collar) is turned from one piece of Cold Rolled Steel and has a Square Lathe Cut Thread. The Jaws are Steel Faced, Hardened and are Ground to Insure that they Meet Squarely when Tightened. Both Back and Front Jaws are Filed to Fit.



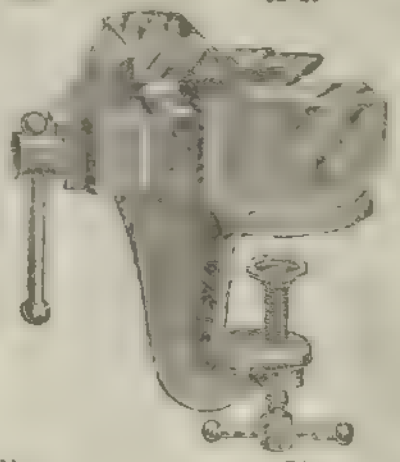
STATIONARY BASE

Designed to be permanently screwed to the Bench.

Hardened Tool Steel Jaws; Black Japanned with Nickel Trimmings; Anvil on Main Frame.

Nos.	DEX2	DEX3	DEX4	DEX5
Width of Jaws	[illegible]	[illegible]	[illegible]	[illegible]
Length Closed, Inches	[illegible]	[illegible]	[illegible]	[illegible]
Weight Each, Lbs	[illegible]	[illegible]	[illegible]	[illegible]
Each	$2 40	2 90	3 30	4 20

Loose



CLAMP BASE

Designed with Screw Clamp Base which permits of Vise [illegible] to Benches of [illegible] thicknesses up to 2 [illegible].

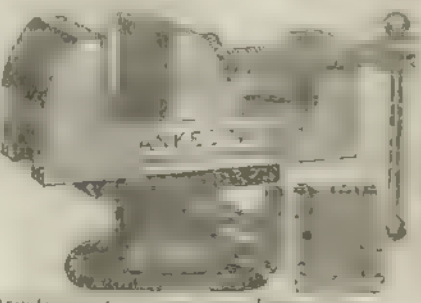
Hardened Tool Steel Jaws Steel Clamp Screw with Swivel Head; Anvil on Main Frame.

Black Japanned, Nickel Plated Trimmings

Nos.	DE2	DE3	DE4	DE5
Width of Jaws	1¾	2	2¾	2½
Length Closed, Inches	6¾	6	6¾	7
Weight Each, Lbs	3½	4½	6	9¼
Each	$2 80	3 30	4.00	5 00

Loose

YANKEE—DETACHABLE



Mounted on Swivel Base for Use on Bench [illegible] Upper Part Quickly [illegible]

Body and Sliding Jaw are of Cast Iron, with Hardened [illegible] faces. The Sliding Jaw [illegible] through Slot One Inch Wide in Body of V[illegible] Two Steel Keys Set in Same, thus Securing a Parallel Movement and so Construct[illegible] [illegible] 1½ inch Diameter, with Acme Thread. The [illegible] inch Diameter to Receive Sliding Bar, Made of Steel 3/16 inch in Diameter and 4½ inches Long.

Accurately Machined All Over so it can be Used on Either Side or End as well as on its Base.

A Hardened Steel Block is Provided with V Shaped Grooves of Various Sizes for Holding Round or Irregular Shaped Work in Drilling, Shaping, etc.

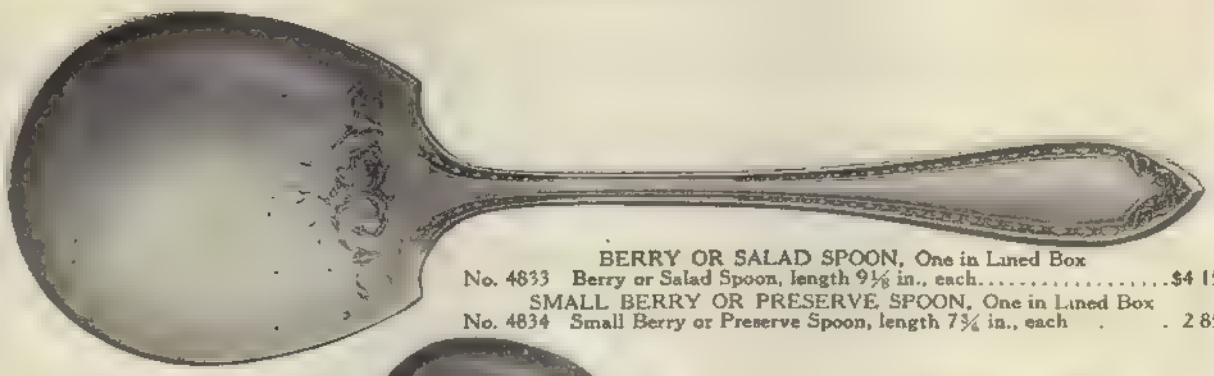
Each

No. 1893 [illegible] Width 2¾ inches; Height 3 inches; Jaws 2¾ inches wide, 1⅜ inches Deep, and Open 3½ inches; Extreme Height with Swivel Base 5¾ inches; Extreme Length Over All 8¾ inches; Weight Complete 13½ lbs. $7 70

Ou[illegible]

COMMUNITY PLATE

SHERATON

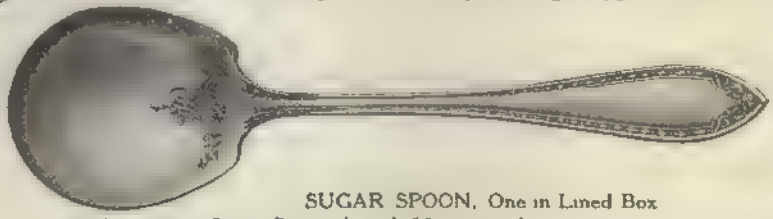


BERRY OR SALAD SPOON, One in Lined Box

No. 4833 Berry or Salad Spoon, length 9⅛ in., each.....$4 15

SMALL BERRY OR PRESERVE SPOON, One in Lined Box

No. 4834 Small Berry or Preserve Spoon, length 7¾ in., each . . 2 85

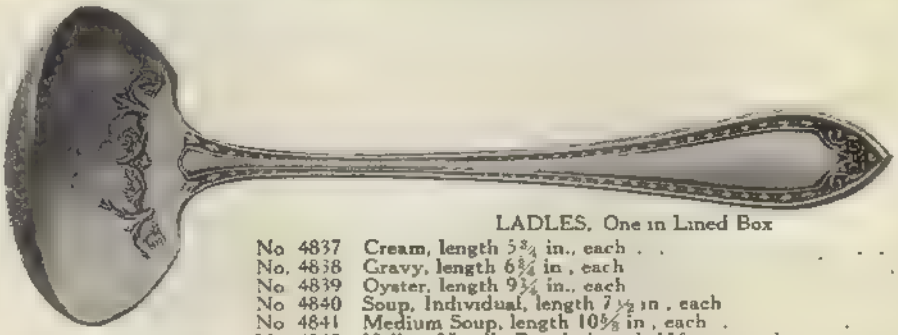


SUGAR SPOON, One in Lined Box

No. 4835 Sugar Spoon, length 5⅞ in., each $1.65

BUTTER KNIFE, One in Lined Box

No. 4836 Butter Knife, length 7½ in., each.... .....$1 75



LADLES, One in Lined Box

No 4837	Cream, length 5¾ in., each	$2.55
No. 4838	Gravy, length 6¾ in., each	3 20
No 4839	Oyster, length 9¾ in., each . .	7.55
No 4840	Soup, Individual, length 7½ in., each . .	5 90
No 4841	Medium Soup, length 10⅝ in., each	9 60
No 4842	Hollow Handle Punch, length 15⅜ in., each. . .	15.45

COLD MEAT FORK, One in Lined Box

No. 4843 Cold Meat Fork, length 8⅜ in., each.....$2.80

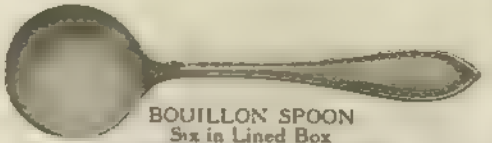
SMALL COLD MEAT FORK, One in Lined Box

No. 4844 Small Cold Meat Fork, length 6⅛ in., each.....$2.15

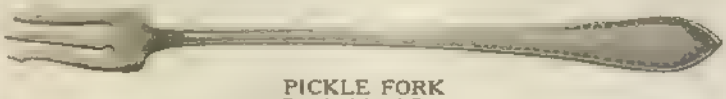
COMMUNITY PLATE

SHERATON

SOUP SPOON Six in Plain Box
No. 4845 Soup Spoon, length 7⅛ in., per dozen $20 90



BOUILLON SPOON
Six in Lined Box
No. 4846 Bouillon Spoon, length 4⅞ in., per set $9 05



PICKLE FORK
One in Lined Box
No. 4847 Pickle Fork, length 6⅜ in., each.....$2.05

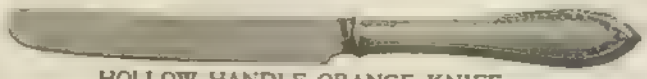
ORANGE SPOON, Six in Lined Box
No. 4848 Orange Spoon, length 5⅝ in., per set $7 35

FLAT HANDLE BUTTER SPREADER
No. 4849 F H Butter Spreader, length 6¼ in., per set $7.70

ICED TEA SPOON, Six in Plain Box
No. 4850 Iced Tea Spoon, length 7⅛ in., per dozen. $14 70

OYSTER FORK
Six in Lined Box
No. 4851 Oyster Fork, length 6⅛ in., per set $6 45

SUGAR TONGS, One in Lined Box
No. 4852 Sugar Tongs, Small, length 4 in., each $2 00
No. 4853 Sugar Tongs, Large, length 4 in., each 2 75



HOLLOW HANDLE ORANGE KNIFE
Six in Lined Box
No. 4854 H H. Orange Knife, length 7⅜ in., per set $15 60

HOLLOW HANDLE FRUIT KNIFE
Six in Lined Box
No. 4855 H H Fruit Knife, length 6⅝ in., per set .$15 05

HOLLOW HANDLE FORKS
Six in Flannel Roll
No. 4856 Medium length 7⅞ in. per dozen.....$30.90
No. 4857 Dessert, length 7⅛ in., per dozen..... 30.05

HOLLOW HANDLE BUTTER SPREADER
Six in Lined Box
No. 4858 H. H. Butter Spreader, length 6¼ in., per set $15.00

PIE FORK
Six in Plain Box
No. 4859 Pie Fork, length 7⅛ in., per dozen $19 10

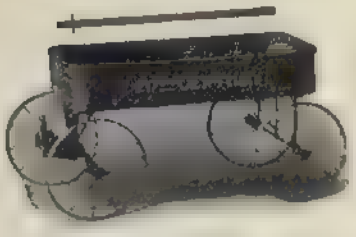
INDIVIDUAL SALAD FORK
Six in Lined Box
No. 4860 Individual Salad Fork length 6⅛ in., per set $9 45

HOLLOW HANDLE PIE SERVER
One in Lined Box
No. 4861 H. H. Pie Server, length 10⅛ in., each. . $5 70

SHERATON DESIGN

JUVENILE WAGONS

STEEL EXPRESS WAGONS



The body is of sheet steel sides with heading. Kiln-dried wood bottoms with cross cleats. Body enameled red outside, green inside, stenciled in gold, gears and wheels black enamel and baked. Tongue, natural hardwood

20th Century

	Per dozen
No. 118—Body 8x18x3 in., front and rear wheels 6 in.	$46 00
No. 120—Body 9x20x3½ in., front and rear wheels 8 in.	51 50
No. 122—Body 10x22x4 in., front and rear wheels 8 in.	56 75
No. 124—Body 11x24x4½ in., front and rear wheels 10 in.	70 25
No. 126—Body 12x26x5 in., front and rear wheels 10 in.	82 75
No. 128—Body 13x28x5½ in., front and rear wheels 11 in.	91 75
No. 130—Body 14x30x6 in front and rear wheels 11 in.	100 50
No. 132—Body 15x32x6 in., front and rear wheels 11 in.	117 25

Nos 118 and 120 Half Dozen, Balance Sixth Dozen in a Carton

Body is of extra heavy sheet steel with beading. Hardwood tongue with loop handle Body enameled in two colors, blue outside, red inside, and green outside, red inside, stenciled in gold. Gears and wheels black enamel and baked. Nickel plated hub caps Extra heavy throughout

	Per dozen
No. 326—Body 12x26x5 in., front and rear wheels 10 in.	$100.50
No. 330—Body 14x30x6 in., front and rear wheels 11 in.	119 00
No. 332—Body 15x32x6 in., front and rear wheels 12 in	135.50
No. 336—Body 16x36x6 in., front and rear wheels 12 in	179 00

Sixth Dozen in a Carton

FARM WAGONS

Body 16x34x5½ inches, dash 9 inches high, made with end boards and rods. Outside of body painted green, with white striping and ornamented with gold and black. Inside of body painted red. Has heavy wood wheels 10 in. front and 14 in. rear; heavy welded tires, shaved spokes.

No. 13.....Per dozen $108 00

Sixth Dozen in a Crate

COASTER WAGONS

Body made of selected hardwood. Top removable. Gears have heavy hardwood bolsters well braced to body with steel braces. Wheels are extra heavy wood, rims are ⅞x1½ in. rock elm. Tires are ⅞x⅛ in. steel. Hubs are malleable. Finish: Body and gear varnished on natural wood with red and fancy striping, wheels red with fancy striping.

Yankee Boy, Plain Bearing

No. 032—Body 14x32x3½ in., wheels 10 in., plain bearing.....Per dozen	$76.30
No. 036—Body 16x36x3½ in., wheels 10 in., plain bearing.....Per dozen	82 10
No. 040—Body 18x40x3½ in., wheels 10 in., plain bearing.....Per dozen	93.60

One in a Carton

Material, construction and finish same as plain bearing. Has ⅞ in. steel rollers held in hub by a retainer

Yankee Boy, Roller Bearing

No. 320—Body 14x32x3½ in., wheels 10 in., roller bearing.....Per dozen	$ 84 40
No. 360—Body 16x36x3½ in., wheels 10 in., roller bearing.....Per dozen	93 60
No. 400—Body 18x40x3½ in., wheels 10 in., roller bearing.....Per dozen	108.60

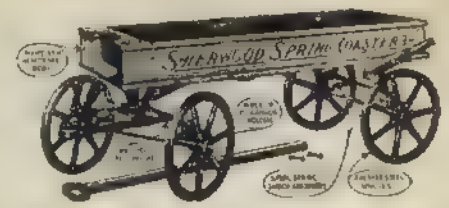
One in a Carton

EXTRA WHEELS FOR YANKEE BOY COASTER WAGONS

Plain Bearing—Size 10 in.....Each	$0.80
Roller Bearing—Size 10 in.....Each	1 00

Packed as Ordered

SPRING COASTER WAGONS



Equipped with shock absorbers or springs that take away the hard jolts and bumps. The wheels are pressed steel. The box is made of selected white ash, with corners mortised. Sides are removable, natural finish body, red wheels, roller bearing

This illustration shows the construction of the steel wheels, also the roller bearings with retainer

Sherwood

No. 32—Body 14x32x3½ in., wheels 8 in., roller bearing.....Per dozen	$ 88.00
No. 34—Body 14x34x3½ in., wheels 10 in., roller bearing.....Per dozen	104 60
No. 36—Body 16x38x3½ in., wheels 10 in., roller bearing.....Per dozen	115.20
No. 40—Body 18x40x3½ in., wheels 10 in., roller bearing.....Per dozen	128 00

One in a Carton

EXTRA WHEELS FOR SHERWOOD SPRING COASTER WAGONS

8 in. diameter.....Each	$1 25
10 in. diameter.....Each	1.50

Packed as Ordered

KIDDO-TRUCKS

Made from selected hardwood, strong and light. Tongue and wheels red enameled, bed stained green with a weather protecting coat of varnish. Wheels in front are 5 in. apart, and in rear 12 in. apart. Runs easy and can be used as a wagon, coaster or glider

No. 8—Body 29x10 in., height 7 in., wheels 4 and 6 in.....Each	$3 00
No. 8X—Body 36x12 in., height 9 in., wheels 4 and 6 in.....Each	3 75

One in a Package

CHILDREN'S VEHICLES

HAND CARS

Gear drive, with double connecting rod. Hardwood frame, seat, driving lever and hand grip. Length 31 in.; wheel base 28 in., seat 8x20 in. Seat painted orange with black and red striping. Driving lever and frame, red with black striping. Gears and wheels black enamel, baked.

Gem

Plain bearing and ⅞ in. rubber tires

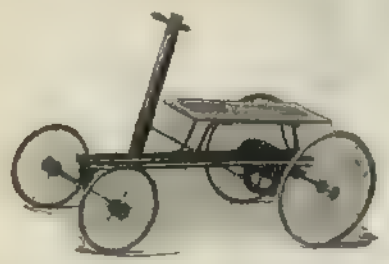
No. 40⅞—Wheels 8 and 12 in....Each $16.25

One in a Crate

Same as No. 40⅞, only has ½ in. rubber tires.

No. 40½—Wheels 8 and 12 in....Each $17.25

One in a Crate



Gear drive, protected; with double connecting rod, hardwood frame, seat, driving lever and hand grip. Length 31 in., wheel base 28 in., seat 8x20 in. Seat, driving lever and frame painted blue-bird blue, with white and black striping. Gears, black enamel, baked. Wheels, tinned, with ⅞ in. rubber tires

Diamond

Plain Bearing

No. 30⅞—Wheels 8 and 12 in....Each $24.50

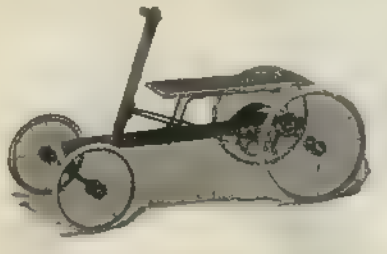
One in a Crate

Same as above, only with roller bearing wheels.

Roller Bearing

No. 130⅞—Wheels 8 and 12 in. .Each $30.75

One in a Crate



An attractive model with large wheels hardwood frame, seat, driving lever and hand grip. Double connecting rod; protected gear. Length 31 in., wheel base 28 in., seat 8x20 in. Seat, frame, driving lever and gears finished in olive green, with yellow and black striping. Seat corners decorated with transfers. Wheels finished in yellow enamel, baked, with ⅞ in. rubber tires.

Oriole

Plain Bearing

No. 30⅞—Wheels 10 and 14 in. ..Each $30.75

One in a Crate

VELOCIPEDES

Neat, strong and very simple in construction, easily set up, frame and fork finished in the best bicycle baked enamel and retaining always a deep black lustre, wheels, cranks and pedals are brightly tinned. With oval steel tire wheels and stationary handle bars.

Standard

No. 0—Front wheels 14 in., rear wheels 10 in. .....Each $8.75

No. 1—Front wheels 16 in., rear wheels 12 in. .....Each 9.50

No. 2—Front wheels 20 in., rear wheels 14 in. .....Each 10.75

No. 3—Front wheels 24 in., rear wheels 16 in. .....Each 12.75

One in a Carton

With Rubber Tires and Adjustable Handle Bars

No. 0R—Same as No. 0, with ½ inch rubber front tire and ⅜ inch rubber rear tire .....Each $14.00

No. 1R—Same as No. 1, with ½ inch rubber front tire and ⅜ inch rubber rear tire .....Each 15.00

No. 2R—Same as No. 2, with ½ inch rubber front tire and ⅜ inch rubber rear tire .....Each 16.25

No. 3R—Same as No. 3, with ½ inch rubber front tire and ⅜ inch rubber rear tire .....Each 17.75

One in a Carton

Frame made of wide channel steel, with Crescent steel brace reinforcing rear axle, making an extra strong velocipede. Bicycle head and arched fork crown. Equipped with adjustable handle bars and stem, leather-wound grips, leather saddle, adjustable saddle post and spring seat. Frame is red enameled, baked; tastefully striped. Handle bars are nickel plated, wheels tinned, with ⅞ in. rubber tires.

Crescent

No. 81—Front wheel 16 in., rear wheels 12 in. .....Each $24.75

No. 82—Front wheel 20 in., rear wheels 14 in. .....Each 27.75

No. 83—Front wheel 24 in., rear wheels 16 in. .....Each 31.00

One in a Carton

VELOCIPEDES

Wide channel steel frame, with Crescent steel brace reinforcing rear axle. Bicycle head and arched fork-crown. Front fork and rear wheels equipped with Universal annular ball bearings, permanently adjusted. Adjustable handle bars and stem; leather-wound grips, best quality bicycle saddle, with adjustable post and spring seat, rat-trap ball-bearing bicycle pedals, and diamond faced cranks. Frame and wheels finished in rich golden brown bicycle enamel, baked; striped in black and red; other parts nickel plated. With ⅞ in. rubber tires.

Crescent Ball Bearing

No. 91—Front wheel 16 in., rear wheels 12 in. .....Each $34.25

No. 92—Front wheels 20 in., rear wheels 14 in. .....Each 37.00

No. 93—Front wheel 24 in., rear wheels 16 in. .....Each 40.25

One in a Carton

Frame made of cold rolled seamless steel tubing, joints brazed and strongly reinforced. Wheels have cold rolled steel rims; bicycle hubs, spokes and nipples. Ball-bearing wheels and pedals. One-inch cushion tires, rat-trap bicycle pedals, bicycle saddle, with adjustable saddle post. Adjustable handle bar, made of steel tubing, with leather-wound grips. Frame finished dark blue bicycle enamel, baked, handsomely striped; other parts nickel plated

Cleveland Tubular Ball Bearing

No. 31—Front wheel 16 in., rear wheels 10 in. .....Each $43.25

No. 33—Front wheel 20 in., rear wheels 14 in. .....Each 53.50

No. 33—Front wheel 24 in., rear wheels 16 in. .....Each 63.50

One in a Carton

YOUR THEATRE & THE OTHER MAN'S

CONDUCTED BY R. W. BAREMORE

NOVEL WINDOW CARDS ISSUED BY FOX CORP.

Advertising Aids for "Queen of Sea," "Why America Will Win" and "Prussian Cur"

As an aid to exhibitors who have booked the pictures, the Fox Film Corporation has had printed more than a million copies [illegible] of some striking window cards ad[illegible] "Queen of the Sea," "Why America Will Win" and "The Prussian Cur" and these cards, it is announced, are being sent out all over the country.

The card advertising "Queen of the Sea" shows the magnitude of this great submarine phantasy, which, it is said, cost more than $1,000,000 to make. Several striking pictures, illustrating Annette Kellermann, star of the production, in some of the most attractive poses as the ruling [illegible] of the creatures of the deep, are shown in this card, which has a space for the name of the theatre.

One of the most striking features of the present world conflict furnishes the theme of the window card to be issued in connection with "Why America Will Win." A picture of a duplicate of the famous 7 inch gun used by the Germans is shown just at the moment of discharge, while in another part of the card is a portrait of General Pershing.

The window card to be sent out in connection with "The Prussian Cur" shows the Kaiser, typifying all the brutality of the Hun, squatting on a ruined cathedral, while behind him on a giant American cannon cracker prunes in readiness to explode. The cannon cracker is representative of the American A

Children's Playroom In Rialto, Omaha

Many exhibitors have trouble with babies crying in the theatre. Manager H. M. Thomas of the new Rialto Theatre in Omaha has overcome this entirely by establishing a comfortable children's playroom, where babies may be "checked" in the care of an expert attendant while the parent views the film. The mother is given a check and the number is attached to the child.

Should the child begin fretting, or for any other reason make it necessary to call the mother, the number appearing on the tag is thrown on a small screen at the front of the stage by a special [illegible] and in this manner the parent is notified the child needs attention.

SEE PAGE 1075

The Way You Advertise the Pictures You Book Is at Least 51 Per Cent. of Your Success

Method of Selling the House En Bloc for "America's Answer" Used in Phila. and Boston

THE unique method of disposing of the house en bloc, which has proved so successful during the engagement of "America's Answer," the United States Official War Film at the George M. Cohan Theatre in New York, has been duplicated for the showing of this patriotic picture at the Forrest Theatre in Philadelphia and the Majestic Theatre in Boston. The season in these houses opened August 12, after an extensive campaign by special representatives of the Division of Films, Committee on Public Information, under the direction of Ryerson Ritchie, chief of the community section.

Philadelphia sprung a novelty at the opening. Instead of that night being largely given up to invited guests, according to custom, John Wanamaker bought the house for the employes of the big Wanamaker store, and had the honor of inaugurating the engagement. It was a patriotic and memorable occasion in every [illegible].

It began with a parade of the John Wanamaker Commercial Institute Band and Companies A, B, C and D of the John Wanamaker Commercial Institute Regiment. The line was preceded by a platoon of police. At the theatre, a add tion to the picture, which created unbounded enthusiasm, there was a program of patriotic songs in which the entire audience readily [illegible].

On Wednesday evening, [illegible] entire house was taken b[illegible] & Co. for their employes. The Shellenburg Red Cross Band, the military organization from the big store, and the Shellenburg Band of 65 pieces paraded to the theatre. The special program included the singing of "The Long, Long Trail," and "Keep the Home Fires Burning." The entire house was also taken on different nights by the Southwark Foundry & Machine Co., the American American Railway Express Co., [illegible], Budd & Co. The establishments [illegible] were represented [illegible] nights during the engagement were J. G. [illegible], the Tacony Ordnance Co., Carlson-[illegible]om Co., England-Walton Co., Penn-[illegible] Blaisel Pencil Co., John T. Lewis & C[illegible] Warren Knight Co., Arthur Brock Co. and E. J. Schoettle & Co.

The opening night in Boston was thoroughly representative of official and military [illegible]. Among those who occupied boxes were Governor McCall, Mayor Peters, Postmaster Murray and Major-General Greuter, U. S. A., and Admiral Wood, U. S. N., with her respective staffs.

The enthusiasm of the audience was pronounced and the new picture was declared to be the most comprehensive war [illegible] produced. During the first two w[illegible] the run the entire house was sold to firms and industries for six nights. The employes of the Boston Navy Yard bought two nights, and nights were taken by the S. A. Woods Machine Co., Rivett La he & Grinder Co., Peter Gray & Sons, Inc., and he Gillette Safety Razor Co.

The disposal of the house to business concerns in Philadelphia and Boston in stures the success of the engagements in these cities, but the response of the public on the intermediate nights has been gratifyingly large.

Indiana Newspapers Are Beginning to Establish Motion Picture Departments

FOR some unknown reason, Indiana newspapers, for the most part, have, in the past, apparently failed to realize and appreciate the power of the motion picture as a means of building and sustaining circulation. Why they have failed to do this has always been a much discussed question among Hoosier exhibitors. However, a perusal of some of the state papers of recent dates discloses the fact that some of them at least are beginning to create a real live motion picture department.

One of the most noticeable changes in this respect has been noticed in the columns of *The Chronicle*, a daily newspaper published at Marion, Ind. Pages two, three [illegible] of recent issue of *The Chronicle* [illegible] devoted exclusively to motion picture[illegible]. And in the same issue was one hundred and eighty inches of advertising for the theatres of Marion.

The news, for the most part, was not the old, stereotyped press agent dope, but live, seasonable, interesting news matter pertaining to the plays and players to be seen during the week at the Marion theatre [illegible] instance, on the first page of the motion picture section was an article of Frances X. Bushman's marriage of recent date to his co-star, Beverly Bayne. The public was interested in this case. *The Chronicle* told them about it.

No city in Indiana the size of Marion can boast of a better or larger motion picture department than the one maintained by *The Chronicle*. The theatre men of Marion have also found the department a big help to them, and they show their appreciation by using the advertising columns of the paper extensively.

Some of the other newspapers of the state which appear rapidly realizing the great power of the motion picture as a medium of not only increasing their advertising, but in building up circulation, are the Evansville *Courier*, the South Bend *Tribune*, the Terre Haute *Tribune*, the Ft. Wayne *Journal-Gazette*, and the Lafayette *Courier and Journal*.

Gladys Leslie Welcomed at Cumberland Theatre, Brooklyn

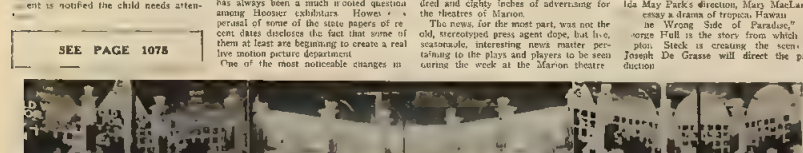
The announcement that Gladys Leslie, the golden haired little Vitagraph star, yielded to the persuasions of the eloquent manager of the Cumberland theatre in Brooklyn the other night and presented herself at his theatre during a showing of "Little Miss No-account," may give hope to the exhibitors throughout the country who have been literally deluging the Vitagraph offices in New York with demands that the popular young woman make a personal appearance at their theatres.

The diminutive star's first appearance might be called a triumph. In popular terms it would be described as a "hit." The crowd went wild with an ovation. Miss Leslie has been with Vitagraph for a year and in that time, up to the day she succumbed to the appeals of the Brooklyn manager, she had remained adamant to all requests for a personal appearance. The truth is, the only young star, whose face has been made known to millions by the camera is very modest. She admits now that a personal appearance is not at all an unpleasant experience, after one gets over one's stage fright.

"And that audience at Brooklyn was a [illegible]," she said, all smiles.

Drama of Hawaii Coming Soon for Mary MacLaren

Following the completion of "The Vanity Pool," in which she is working under Ida May Parks's direction, Mary MacLaren will essay a drama of tropical Hawaii. The Wrong Side of Paradise," by George Full is the story from which the [illegible]ption. Steck is creating the scenes. Joseph De Grasse will direct the production.



The elaborate way in which the Central Park Theatre, Chicago, Ill., advertised "Old Wives for New," "How Could You, Jean?" and "Missing [illegible]. It paid to advertise in these

Heart Of The Wilds" is the Artcraft picture adapted from "Pierre of the Plains" by Edgar Selwyn, with Elsie Ferguson in her stage role at the Rivoli N. Y. this week

The Silent Woman" is Edith Storey's newest starring vehicle, and Metro says it is one of the best things she has ever done

"The Green God" is the Vitagraph Blue Ribbonner featuring Harry Morey and Betty Blythe and under neath we have An

tony Moreno and Carol Holloway co stars in The Iron Test Vitagraph's master serial

Roy Stewart's the Cartoned Triangle star, and small Tim Rossi and her calf Bonita are able assistants in the story

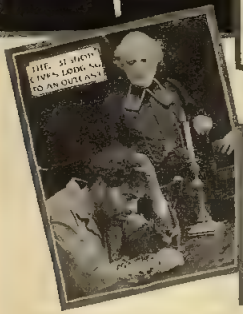
The Inn of the Blue Moon" contains many lovely scenes, and Doris Kenyon appears to good advantage as the star of this De Luxe production

PACKING THEM IN-
EVERYWHERE!

WILLIAM FOX *presents*
The greatest modern actor
WILLIAM FARNUM
in Victor Hugo's masterpiece
Les
MISERABLES
Playing to thousands daily as an individual attraction.

UNPRECEDENTED PROFITS
GET IT NOW — TODAY!

FOX
FILM CORPORATION



The Schomer Photo-Play Producing Co., Inc.

Announces the Early Release of Its
Special Feature Photodrama

"RULING PASSIONS"

A Heart-throbbing, Blood-quickening Story of a Woman's
Battle to Undo Another Woman's Wrong

Written and Directed by

ABRAHAM S. SCHOMER

Author of "TO-DAY," "THE YELLOW PASSPORT," "THE INNER MAN," Etc.

Enacted by

JULIA DEAN
CLAIRE WHITNEY

EDWIN ARDEN
EARL SCHENCK

and An All-Star Cast

STATE RIGHT BUYERS—For Particulars Write or Telegraph

THE SCHOMER PHOTO-PLAY PRODUCING CO., INC.

1440 BROADWAY :: :: :: NEW YORK CITY

There's a wealth of Heart appeal as little

May Giraci

a Spanish orphan, strives with sweet childish diplomacy, unselfishly to overcome the misunderstandings that threaten to wreck the happiness of her two fond friends—

ROY STEWART

and Ethel Flemming in

"Untamed"

Invest Your Savings in W. S. S.

A clean, stirring play of American life, with love, emotion, wistfulness and beauty.

In this romance of Southern California Stewart and his director, Cliff Smith, have given the Triangle program a play with a western locale, that you can go after with all your advertising facilities.

A play for those who do and for those who don't like 'westerns.'

TRIANGLE DISTRIBUTING CORPORATION
NEW YORK

ELINOR FIELD

Pretty—
Dainty—
and
Seventeen

In

STRAND COMEDIES

Bringing the spirit of youth to your screen in a series of one reel farces—happy dramas with probable plots

Available one-a-week at
MUTUAL FILM EXCHANGES

"OVER THE TOP" EMPEY ISSUES STATEMENT

(Continued from page 1062)

injure me in the opinion of our army men makes me see red

"Boys, I value your good opinion and respect more than anything else in this world, because I honor and respect every one of you, whether you volunteered or were drafted makes no difference to Uncle Sam, you are all in it to lick Germany. God bless you. The passing of the draft bill was one of the finest and timeliest acts in American history, because in all wars heretofore the volunteer system has proven a failure

"Recently I offered my services to the War Department and was commissioned a captain in the Adjutant General's Department of the National Army. In some way or other, a technical error was made in commissioning me. To rectify this mistake, I was honorably discharged. Immediately upon being discharged I requested authority from the Adjutant General of the Army to join the Tank Corps. This authority was granted me, provided I was eligible and could pass the physical examination. I return to New York in a few days and will apply for enlistment. If I pass, no doubt I will meet some of you; and we will pool spuds together on kitchen police. Anyway, I will see a lot of you 'over there,' and good luck to us all.

"Drafted men, to further prove that I am for you heart and soul, I make the following offer to the headquarters of the Y. M. C. A., or Knights of Columbus, of each draft cantonment in the United States. I will donate my moving picture, "Over the Top," for one night's showing in each cantonment, no admission to be charged.

"Furthermore, I will donate one copy each of my books, 'Over the Top' and 'First Call,' to every headquarters library of the Y. M. C. A. or Knights of Columbus, of every cantonment in the United States of America. After seeing this picture and reading my books, I guess it won't take a soldier long to decide whether I am with him or not.

"Directors of Y. M. C. A. and Knights of Columbus headquarters, if you will write, call or wire to me at my office, 220 West 42d street, New York City, I will make immediate arrangements.

"Boys, do me a favor! If anyone tells you that Empey ever cast a slurring remark or ever said anything not in your praise, please give him a Yankee wallop on the nose! Good luck to you all."

Empey has been one of the most potent factors in the work of stirring the patriotism of America that the country has known. Long before he wrote his book "Over the Top," and long before he appeared in Vitagraph's production of its strong scenes, he was at work for the Government.

In the First Liberty Loan drive he was instrumental in selling $900,000 worth of bonds.

In the Second Liberty Loan campaign he sold $1,011,000.

In the Third Liberty Loan drive he sold $11,000,000 worth of bonds.

Besides this, he has been a powerful recruiting force and has raised $1,300,000 in cash for various war funds, including the Red Cross, the Knights of Columbus, the Y. M. C. A. and special smoke funds for soldiers.

He probably will be one of the most strenuous campaigners in the Fourth Liberty Loan drive. If his military duties will permit him to work for the loan.

Sam Rork Makes Tour of the Mutual Exchanges

For the purpose of talking over personally with the first run exhibitors and Mutual exchange managers, the Sessue Hayakawa release "His Birthright," Sam F. Rork, general representative of the Haworth Pictures Corporation, left New York City for a trip which, it is announced, will take in Cleveland, Detroit, Chicago and Indianapolis.

Mr. Rork intends to go over in detail with the exhibitor the merchandising plan which has been worked out by the Mutual, bringing to their attention the wide possibilities of the picture and its numerous advertising points.

AMERICAN FILM CO. INC. *Presents*—

MARY MILES MINTER

IN

"THE EYES OF JULIA DEEP"

BY KATE L. McLAURIN
DIRECTED BY LLOYD INGRAHAM

First of the Mary Miles Minter productions to be released under the American Film Company's new plan of selling direct to exhibitors through American representatives in Pathé exchanges.

An exceptional story of department store life, giving Mary Miles Minter an opportunity to display her ability as an ingenue in the role of an humble department store clerk. Romance, comedy, pathos are woven into this story in an interesting manner.

Communicate at once with the American Film Company's representative in your nearest Pathé exchange for bookings

DISTRIBUTED BY PATHÉ

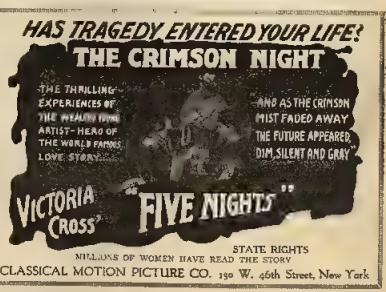
EMPEY'S "OVER THE TOP" GOES BIG DOWN SOUTH

"Over the Top," Vitagraph's war picture featuring Arthur Guy Empey, has not been too busy the last fortnight to drop down South and pull out a few S. R. O. signs that have not been used in a year.

A. Y. Xydias, live-wire manager of the Xydias theatres in Hattiesburg, Miss., (The Lomo and the Gem) writes an interesting letter to Vitagraph stating that he ran "Over the Top" August 8-9-10 to capacity business.

Mr. Xydias got a lot of high class newspaper publicity for "Over the Top," including an editorial in the Hattiesburg *American* of August 10, which was not only a tribute to "Over the Top," but to Vitagraph for producing such a timely picture.

"Over the Top" continues to run strong in all parts of the country and letters from exhibitors indicate still greater demand for the feature in connection with the coming Liberty Loan Drive.



STATE RIGHTS
MILLIONS OF WOMEN HAVE READ THE STORY
CLASSICAL MOTION PICTURE CO. 130 W. 46th Street, New York

A Typical Blue Ribbon Feature!

A BRILLIANT STAR—
Supported by a Popular Cast—

Story Written by
A FAMOUS AUTHOR

Use this as Program Copy

ON the floor of his room the doors bolted, windows locked from the inside—lay the body of a man—murdered! And circumstance so spun its web that it entangled the destinies of many.

For Robert Ashton, the slain man, had carried a mysterious green god that he had stolen from a Chinese temple. And because Major Temple was determined to possess the little emerald effigy, Ashton had offered it for the hand of Muriel, Temple's daughter. And in the midst of it all appeared Owen Morgan, who offered his love and protection, his life if need be, to the woman whose father would bargain her off.

Yet who had entered through sealed doors to slay Ashton? Was it Morgan, to save the woman he loved? Was it Muriel, forced to any lengths to escape Ashton's sensuous covetousness? Was it Temple, impelled by his passion for the idol Ashton possessed? Or Li Min, the Chinese servant, with vengeance in his heart for the heretic who would desecrate the temple of his gods? Or was it the hand of Fate itself?

ALBERT E. SMITH *presents*

HARRY T. MOREY

Supported by Betty Blythe
in

"THE GREEN GOD"

From the Widely Read Novel of the Same Title
by FREDERICK ARNOLD KUMMER
DIRECTED *by* PAUL SCARDON

VITAGRAPH

OPENS SUNDAY AUGUST 25th

CASINO THEATRE

Broadway at 39th St. New York

Prices 25¢ to $1.50

An unusual Photoplay with

FLORENCE REED

IN

"Wives of Men"

STATE RIGHTS FOR SALE

PRESENTED BY

PIONEER FILM CORP.

NATHAN HIRSH PRES.

FIRST

PRODUCERS' DISTRIBUTING
CORPORATION PRODUCTION

EVELYN NESBIT

And Her Son

RUSSELL THAW

In

"HER MISTAKE"

ONE THOUSAND DOLLARS ($1,000) PER WEEK UNDER ANY OTHER PLAN

$10 $20 $30

PER DAY

UNDER

PRODUCERS' DISTRIBUTING CORPORATION

FRANCHISE

Sign Now for the Twelve Biggest Special Attractions
of the Year at the Franchise-Fixed Prices of

$10 $20 $30

And Control These Sure-Fire Box Office Winners for Your Neighborhood

---

FRANCHISES IN ORDER OF APPLICATION

Producers' Distributing Corporation

FRANK G. HALL, President 126-130 W. 46th Street, NEW YORK

Silver's 20-Inch Swing Drill

Lever Feed. Round or Square Base

Fig. 1492

With round base, complete as shown, drive shaft with tight and loose pulleys, weight crated, 650 pounds . . .each $85 00

With square base, otherwise same as Fig. 855; weight crated, 720 pounds . . . .each $90 00

Friction countershaft for tapping, either style, extra each $10 00

V-shaped attachment to fit in supporting arm, for holding wheels to drill the tires, on . . . . . each $2 00

Wheel-holding attachment to clamp to column, with spindle to go through wheel, on. . . . . each $5 00

Dimensions

Height, 68¾ inches, diameter of column 5½ inches, diameter table, 16 inches, diameter spindle, 1⅝ inches; vertical travel of spindle 10 inches vertical travel of table, 16 inches, spindle bored for No 3 Morse taper Distance from column to center of table, 10¼ inches distance from spindle to base, 41½ inches, distance from spindle to table 26⅝ inches; diameter of crown gear, 5⅜ inches diameter of bevel pinion, 3⅛ inches, diameter large pulley on cone, 9½ inches diameter small pulley on cone, 4 inches cone carries 2-inch belt. Tight and Loose pulleys, 8 x 2¾ inches, floor space square base 46 x 16 inches floor space round base, 38 x 20 inches

Silver's 20-Inch Swing Drill

Power Feed and Automatic Stop. Round or Square Base

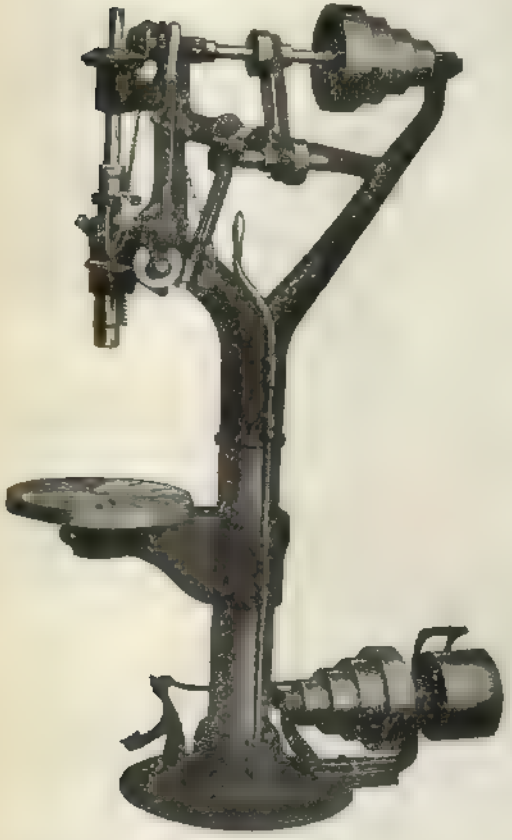


Fig 1403

With round base, complete as shown; drive shaft with tight and loose pulleys, weight crated, 715 pounds..... each, $110.00

With square base, weight crated, 750 pounds..... each $115 00

Friction countershaft for tapping either style, extra each $10 00

V shaped attachment to fit in supporting arm, for holding wheels to drill the tires..... each $2 00

Wheel-holding attachment to clamp to column, with spindle to go through wheel..... each $5.00

Dimensions

Height, 68¼ inches; diameter of column 5½ inches, diameter table 16 inches diameter spindle, 1⅝ inches, vertical travel of spindle, 10 inches, vertical travel of table, 16 inches; spindle bored for No. 3 Morse taper. Distance from column to center of table 10¼ inches distance from spindle to base, 41¼ inches, distance from spindle to table 26⅝ inches, diameter of crown gear 5¾ inches; diameter of bevel pinion, 3⅜ inches; diameter large pulley on cone, 0¼ inches, diameter small pulley on cone, 4 inches; cone carries 2 inch belt Tight and loose pulleys 8 x 2¾ inches floor space—square base 46 x 16 inches floor space—round base 36 x 20 inches

Silver's Improved Power Band Saw

With Wright's Patent Non-Friction Roller Saw Guide

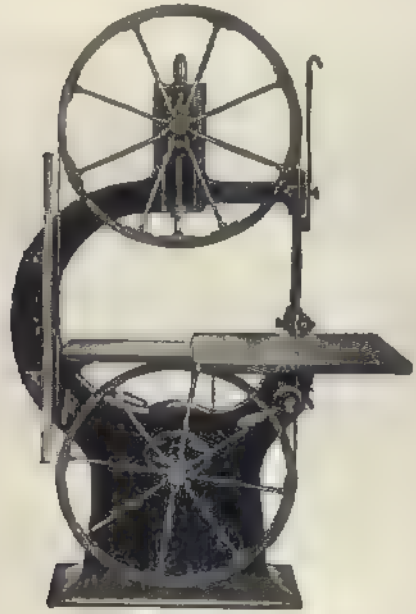


Fig. 1455

32-Inch Wood Rim Band Wheels

This machine meets the demand of those who prefer wood rim to iron wheels

Size and Price

32 inch machine with tight and loose pulleys, weight crated, 915 lbs.	each	$113.00
Extra saw blades, 16 feet 4 inches x ½ inch	each	1.80
Extra for ripping gauge	each	8.00

Boxed for Export

Net 830 pounds, gross 1,110 pounds, 503 kilos, 37 cubic feet.

Silver's New Jointers

Sizes 8, 12, 16, 20 and 24-Inch

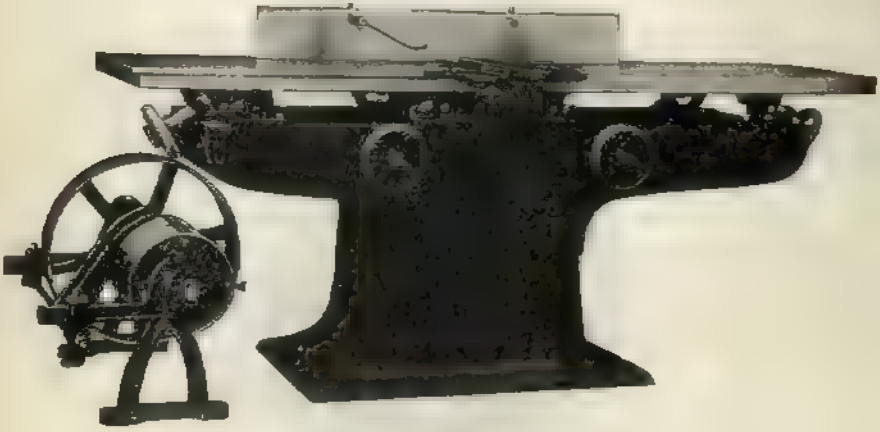


Fig 1458

Sizes and Prices

Complete with Countershaft as Shown

Size Inches	Floor Space All Inches	Weight Boxed for Export			H P	Kilos	Cu Ft	Price
		Crated Pounds	Net Pounds	Gross Pounds				
8	22x68	1070	890	1110	3 to 5	505	20¾	$130 00
12	30x80	1480	1285	1585	4 to 5	719	46	150 00
16	34x80	1650	1525	1705	5 to 7	774	53	165 00
20	38x10	1800	1460	2010	6 to 7	912	59⅛	175 00
24	42x80	1935	1595	2180	6 to 8	993	66⅓	190 00

Rabetting table for 8-inch machine, extra... ... ., each $ 7.50
Rabetting table for larger sizes, extra each 10 00

Silver's Plain Saw Table

With Safety Guard

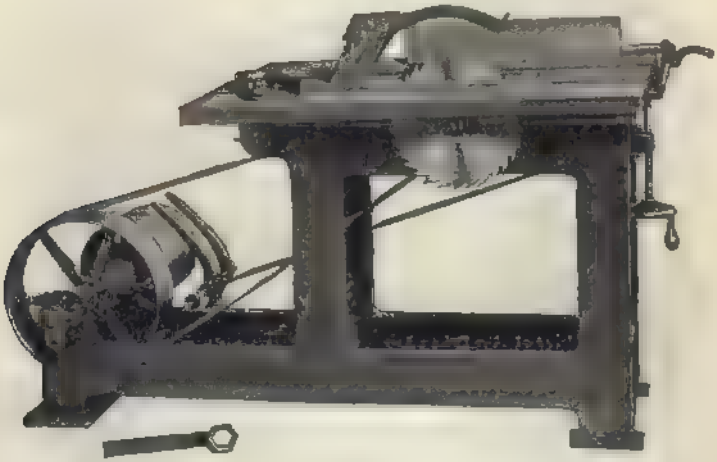


Fig. 1437

Size and Price

Saw table, complete with 12 inch saw (rip or cut off) weight crated, 785 pounds..... each $80 00

Extra saws, 12 inches in diameter, rip or cut off. ..each 4.40

Extra saws, 14 inches in diameter, rip or cut off each 5 30

Boring attachment for saw table, extra each 20 00

Boxed for Export

Net 735 pounds gross 875 pounds 397 kilos 29¼ cubic feet

Silver's New Saw Table

With Safety Guard and Pivoted Auxiliary Frame for Vertical Adjustment of Saw

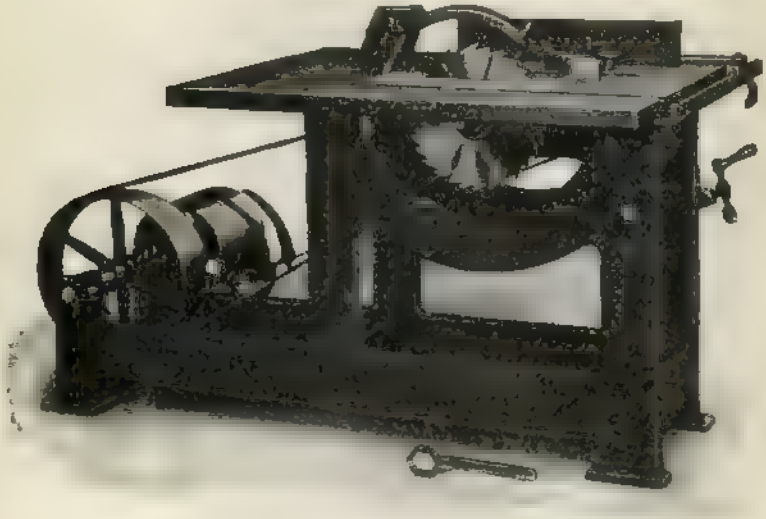


Fig. 1458

Size and Price

Saw table, complete with 12 inch saw, rip or cut off, weight crated, 930 pounds	each	$100.00
Extra saws, 12 inches in diameter, rip or cut off	each	4.40
Extra saws, 14 inches in diameter, rip or cut off	each	5.30
Boring attachment for saw table, extra	each	20.00

Boxed for Export

Net 785 pounds, gross 925 pounds, 420 kilos, $29\frac{1}{4}$ cubic feet

COMBINATION STERLING SILVER $\frac{925}{1000}$ FINE

BEAUTIFUL CRYSTAL CUT GLASSWARE

Illustrations reduced size **Must be seen to perceive its elegance- its enhancing beauty** **Manufactured by The Watson Co.**

No. 2416	Ice Tea [illegible] Spoon height 3½ inches, each	$ 8.35
No. 2417	Ice Tea [illegible] Spoon height 3½ inches, each	8.00
No. 2418	Ice Tea [illegible] Spoon height 3½ inches, each	8.35
2420	Ice Tea [illegible] Spoon [illegible], each ice cream extract height 6¼ inches each	22.20
2421	Ice Tea [illegible] Spoon height 3½ inches each	8.00
2421	Syrup [illegible] height 5¼ inches, each	17.50
2422	Syrup [illegible] height 4½ inches, each	16.70
2423	Ice Tea and Sugar Shell 5¾ inches each	6.70
2424	Marmalade Dish pierced flower handle [illegible] diameter 3¼ inches each	14.50
2425	[illegible] Spoon height 7 inches each	9.50
2426	Mustard [illegible] pierced flower handle [illegible] diameter 4 inches each	17.50
2427	Relish [illegible] [illegible] 2 pieces, [illegible]	8.35
No. 2428	Salad [illegible] 7½ inches [illegible] 2 pieces, [illegible] 3 inches [illegible] 8½ inches long 2 pieces Salad Spoon Salad Fork same size as the 10 inch Salad Spoon and Fork with Ivory handles, in white leather gusset lined case 7 pieces	66.70
No. 2429	Relish Dish pierced flower handle [illegible] heavy handle, square with [illegible] extends [illegible] long [illegible] inches	27.85

Landers, Frary & Clark's "UNIVERSAL" Electric American-Sheffield Plate Ware

In "Universal" American-Sheffield Plate is found the modern successor to the beautiful English Sheffield Plate of a century ago, now so highly prized as heirlooms and so eagerly sought by collectors of antiques.

Originally, the method employed in making this ware was the joining of silver and copper bars together with wire, fusing them with intense heat and then rolling them to proper thickness, after which they were converted into buttons, buckles, snuff boxes, candlesticks and other small articles.

The introduction of "Universal" American-Sheffield Plate marks a Renaissance of this historic ware and revives the artistic chased designs of earlier days, but instead of being silver plated on copper "Universal" American-Sheffield Plate is electro silver plated on a fine quality of solid white nickel silver which, because of its hardness and color, is greatly superior to copper as a base metal.

To the combination of modern materials and methods of manufacture is added a superiority of design as evidenced by the old English Chased pattern featured on this page. Each of these beautiful creations embody the many points of mechanical superiority which have made the name "Universal," as applied to household devices, known the world over.

RICH OLD ENGLISH CHASED PATTERN

The most discriminating set admire and esteem this beautiful ware.

"Universal" Electric Coffee Urn

No. E8166 Capacity 6 cups; weight packed 10 lbs.; height over all, 15½ in.; silver plated (420 Watts) . $57.75

No. E8169 Capacity 9 cups, weight packed, 11 lbs ; height over all, 17½ in ; silver plated (420 Watts).. ..... $60.80

"Universal" Electric Coffee Percolator

No. E8646 Capacity 6 cups; weight packed, 5 lbs.; height over all, 9½ in.; silver plated.....$35.50

No. E8649 Capacity 9 cups; weight packed, 6 lbs ; height over all, 11 in.; silver plated.....$38.95

420 Watts

"Universal" Electric Coffee Urn

No. E8146 Capacity 6 cups; weight packed 8¼ lbs ; height over all, 13½ in ; silver plated $45.60

No. E8149 Capacity 9 cups, weight packed 9¼ lbs.; height over all 15 in.; silver plated. $48.75

420 Watts

Coffee Urn Set

No. E8166044 Urn capacity, 6 cups; silver plated. $103.70

No. E8169044 Urn capacity, 9 cups; silver plated. 107.10

420 Watts

"Universal" Electric Tea Pot

No. E8046 Capacity 6 cups; weight packed, 4 lbs., height over all 8¾ in., silver plated.....$31.45

420 Watts

"Universal" Electric Tea Samovar

No. E8346 Capacity, 6 cups; weight packed, 9 lbs ; height over all 11¼ in., silver plated..$40.75

420 Watts

"Universal" Electric Chafing Dish

Fast and slow heat connection

No. E840 Ebonized handles; weight packed, 12½ lbs silver plated . . $50.60

Watts 420 and 160

"Universal" Electric Toaster

No. E343 Weight packed, 2⅞ lbs., height over all, 6⅞ in , silver plated ..$20.80

340 Watts

"Universal" Electric Hot Water Kettle

No. E874 Capacity, 2½ pints; weight packed, 4 lbs.; height over all., 9½ in.; silver plated.....$35.50

420 Watts

Ebonized handles and feet throughout. "Universal" Fusible Plug Safety Device in all articles except Toaster. Furnished complete with six-foot Silk Finish Cord and Hubbell Lamp Socket. Packed one in a box.

CROSS-CUT SAWS

SIMONDS MFG. CO. CRESCENT GROUND

Made of Highest Grade Crucible Cast Steel, Oil Tempered, Hand Filed and Set and Highly Polished and Etched.

No. 33—DEXTER TOOTH

Crescent Ground; Three Cutting Teeth to One Raker Tooth.

14 Gauge at Center of Cutting Edge, 16 Gauge at Back or Ends, 19 Gauge at Center or Back Edge.

Length, Feet	6	6½	7
Width at Center, inches	7	7⅛	7¼
Weight Each, lbs.	6½	6¾	7¼
Each, without Handles	$9 92	11 44	13 12

No. 22—CANADA PATTERN, LANCE TOOTH, PERFORATED

Crescent Ground; Four Cutting Teeth to One Raker Tooth.

14 Gauge at Center of Cutting Edge, 16 Gauge at Back on Ends, 19 Gauge at Center of Back Edge.

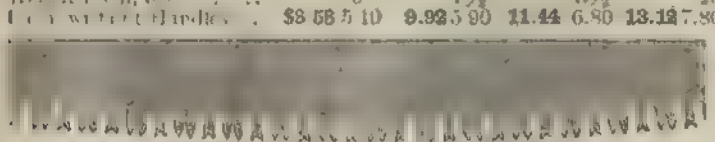
Length, Feet	5	5½	6	6½	7	7½
Width, at Center, in.	6	6½	7	7⅛	7¼	8⅛
Wt. Each, lbs	5	5½	7¼	8½	9½	11
Ea., without Hdls.	$4.80	5 10	5 90	6 80	7 80	8 90
	7.24	8.58	9.92	11.44	13.12	14.96

No. 13—TUTTLE TOOTH

Crescent Ground; Two Cutting Teeth to One Raker Tooth.

14 Gauge at Center of Cutting Edge, 16 Gauge at Back on Ends, 19 Gauge of Back Edge.

Length, Feet	5½	6	6½	7
Width at Center, inches	6⅛	7	7⅜	7¾
Weight Each, lbs	6	7½	8½	10
Each, without Handles	$8 58	5 10 9.92	5 90 11.44	6.80 13.12 7.80

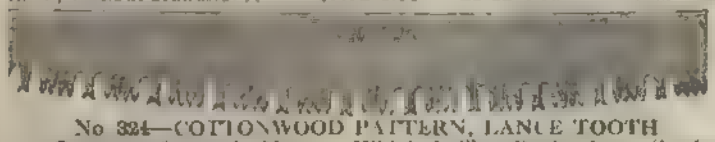


No. 316—COTTONWOOD PATTERN DIAMOND TOOTH, PERFORATED

Crescent Ground; Narrow Width Blade; Two Cutting Teeth to One Raker Tooth.

14 Gauge at Center of Cutting Edge, 16 Gauge at Back on Ends, 19 Guage at Center of Back Edge.

Length, Feet	6	6½	7
Width at Center, inches	6	6¾	6
Weight Each, lbs.	6	7	
Each, without Handles	$8.92	5.90 11 44 6 80	13.12 7 80



No 324—COTTONWOOD PATTERN, LANCE TOOTH

Crescent Ground; Narrow Width Felling Blade; Four Cutting Teeth to One Raker Tooth.

14 Gauge at Center of Cutting Edge, 16 Gauge at Back on Ends, 19 Gauge at Center of Back Edge.

Length, Feet	5½	6	6½	7
Width at Center, inches	5⅝	6	6⅜	6¾
Weight Each, lbs.	5½	6	7	8
Each, without Handles.	$8.58	5.10 9.92	5.90 11.44	6.80 13 12 7 80

No. 325—FELLING PATTERN, LANCE TOOTH

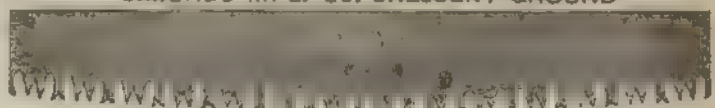
Crescent Ground; Narrow width Felling Blade; Four Cutting Teeth to One Raker Tooth. 14 Gauge at center of Cutting Edge; 16 Gauge at Back on Ends; 19 Gauge at Center of Back Edge.

Length, Feet	5	5½	6
Width, Center, Inches	5	5¾	6
Wt. Each, lbs.	5	5½	6
Each, without Handles	$7.24	4 30 8 58 5 10	9.92 5.90

Loose; All Above Wood Stripped on Cutting Edge

CROSS-CUT SAWS

SIMONDS MFG. CO. CRESCENT GROUND



No. 328—COTTONWOOD PATTERN, CHAMPION TOOTH

Crescent Ground; Narrow Width Blade; Two Cutting Teeth to One Raker Tooth.

14 Gauge at Center of Cutting Edge, 16 Gauge at Back on Ends, 19 Gauge at Center of Back Edge.

Length, Feet	5½	6	6½	7
Width at Center, inches.	5⅛	6	6¼	6⅝
Weight Each, lbs	6	6½	7½	8
Each, without Handles	$8.58	5.10 9 92	5 90 11.44	6.80 13.12 7 80

HENRY DISSTON & SONS

Made of Best Grade Crucible Cast Steel; Perfectly Tempered in Oil; Carefully Sharpened and Set; Polished and Etched; Ground to an Even Gauge Throughout the Tooth Edge, with a Relative and Uniform Thickness Throughout the Body to a Thin or Extra Thin Edge at Back Edge, Giving the Saw a Maximum Amount of Clearance Without Sacrificing its Elasticity and Stiffness.

No. DGA—GREAT AMERICAN TOOTH

14 Gauge at Tooth Edge, 19 Gauge at Back Edge

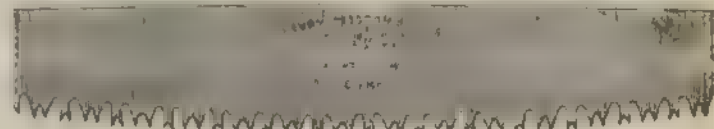
This Style of Tooth is Easily Kept in Order and as it Takes Less Hold Upon the Log, Requires Less Effort to Drive it.

Length, Feet	5	5½	6
Width at Center, inches	6¾	7	7¼
Weight Each, lbs.	4½	6½	7
Each, without Handles	$6.60	7 30	8.00

No. DD102—(2) DIAMOND TOOTH

14 Gauge at Tooth Edge, 16 Gauge at Back Edge, Two Cutting Teeth to One Raker Tooth.

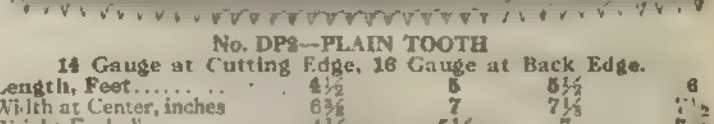
Length, Feet	5	5½	6	6½	7
Width at Center, in.	6½	7	7¼	7½	7¾
Weight Each, lbs	5	6¼	8	8½	9½
Each, without Hdls.	$6 00	7.00	7.70	8.00	8.50



No. DC02—(2) CHAMPION TOOTH

14 Gauge at Cutting Edge, 16 Gauge at Back Edge.

Length, Feet	5	5½	6	6½	7	7½
Width at Center, in.	7	7¼	7½	7¾	7½	8½
Weight Each, lbs.	5½	7	7¼	8	9½	13
Ea. without Han.	$5.70	6.30	6.60	7 30	7 80	8 00



No. DP2—PLAIN TOOTH

14 Gauge at Cutting Edge, 16 Gauge at Back Edge.

Length, Feet	4½	5	5½	6
Width at Center, inches	6⅜	7	7⅛	7½
Weight Each, lbs.	4½	5½	7	7½
Each, without Handles	$5.50	5.70	6.30	6.60

No. DPL—PERFORATED LANCE TOOTH, WIDE

14 Gauge Cutting Edge; 18 Gauge at Back Edge.

Length, Ft.	5	5½	6
Width, Center, In	6½	7	7¼
Wt. Each, lbs.	5	6¼	8
Each, without Handles	$7 00	7.70	8.50

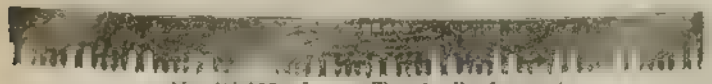
Loose; All Above Wood Stripped on Cutting Edge.

NARROW CROSS-CUT SAWS

Designed for Felling Cedar and other Small Timber; Also Used by Farmers, Tie Makers, etc.

★DIAMOND EDGE

Made of Special High Grade Steel; Thoroughly Tempered and Carefully Ground, Hand Filed and Set; Highly Polished and Etched.



No. DE408—Lance Tooth, Perforated

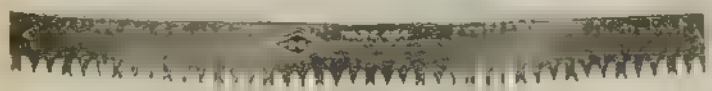
3¼ inches Wide; 14 Gauge; Four Cutting Teeth to One Raker Tooth

Length, Feet	5	5½	6	6½
Weight Each, lbs.	3½	4	4½	4½
Each, without Handles	$2.60	2.70	3.00	3.20

No. DE406—Diamond Tooth

3¼ inches Wide; 14 Gauge; Two Cutting Teeth to One Raker Tooth

Length, Feet	5	5½	6	6½
Weight Each, lbs.	3½	4½	5	5½
Each, without Handles	$2.40	2.50	2.70	3.00



No. DE404—Champion Tooth

3¼ inches Wide; 14 Gauge; Two Cutting Teeth to One Raker Tooth

Length, Feet	5	5½	6	6½
Weight Each, lbs.	3½	4	4½	4½
Each, without Handles	$2.20	2.50	2.70	3.00

Loose

BRIDGE

High Grade Steel, Oil Tempered, Hand Ground, Sharpened and Set, Polished and Etched.

No. B208—Lance Tooth, Perforated

3¼ inches Wide; 14 Gauge; Four Cutting Teeth to One Raker Tooth.

Length, Feet	5	5½	6
Weight Each, Lbs.	3½	4	4½
Each, without Handles	$2.70	2.90	3.20

No. B206—Diamond Tooth

3¼ inches Wide, 14 Gauge; Two Cutting Teeth to One Raker Tooth.

Length, Feet	5	5½	6	6½
Weight Each, lbs.	3½	4	4¼	4½
Each, without Handles	$2.40	2.70	3.00	3.20

No. B204 Champion Tooth

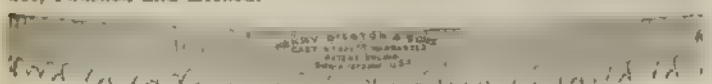
3¼ inches Wide; 14 Gauge; Two Cutting Teeth to One Raker Tooth

Length, Feet	5	5½	6	6½
Weight Each, lbs.	3¼	4	4¼	4½
Each, without Handles	$2.40	2.70	3.00	3.20

Loose

HENRY DISSTON & SONS

Extra Cast Steel, Carefully Tempered, Ground, Sharpened and Set, Polished and Etched.



No. D04—Triumph Champion Tooth

3¼ inches Wide; 14 Gauge; Two Cutting Teeth to One Raker Tooth

Length, Feet	5	5½	6	6½	7
Weight Each, lbs.	3½	4	4½	5½	7
Each, without Hdls.	$3.10	3.40	3.60	3.80	4.20

Loose.

NARROW CROSS-CUT SAWS

HENRY DISSTON & SONS

Extra Cast Steel Carefully Tempered, Ground, Sharpened and Set Polished and Etched.

No. DNA—GREAT AMERICAN, NARROW

3¼ inches wide; 14 Gauge at Tooth Edge; 16 Gauge at Back Edge.

Length, Ft.	5	5½	6
Wt. Each, lbs.	3½	4	4½
Each, without Handles	$3.60	4.00	4.20

No. DTP—TRIUMPH TOLEDO, PERFORATED, NARROW

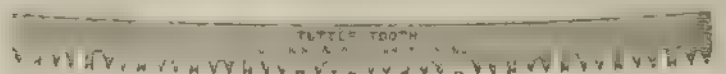
3¼ inches wide; 14 Gauge at Tooth Edge, 16 Gauge at Back Edge; Four Cutting Teeth to One Raker Tooth.

Length, Ft.	5	5½	6½
Weight, Each, lbs.	3½	4	4
Each, without Handles	$4.50	4.70	5.40

Loose

E. C. ATKINS & CO.

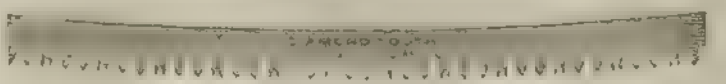
Polished and Etched, Extra Cast Steel, Carefully Tempered, Ground, Sharpened and Set.



No. 379—Tuttle Tooth

Special Steel; 3¼ inches Wide, 14 Gauge; Two Cutting Teeth to One Raker Tooth.

Length, Feet	5	5½	6	6½
Weight Each, lbs.	3½	4	4½	5
Ea., without Handles	$1.30	1.43	1.56	1.69
	2.44	2.68	2.90	3.16



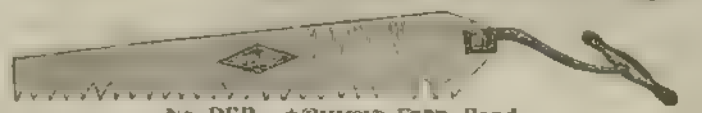
No. 384—Diamond Tooth

Special Steel; 3¼ inches Wide, 14 Gauge; Two Cutting Teeth to One Raker Tooth.

Length, Feet	5	5½	6	6½	7
Weight Each, lbs.	3½	4	4½	5	5½
Each, without Handles	$1.50	1.65	1.80	1.95	2.10
	2.80	3.10	3.38	3.66	3.94

Loose

ICE SAWS

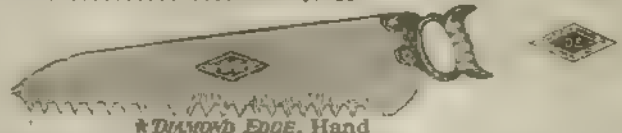


No. DEP—★DIAMOND EDGE, Pond

For Cutting Ice From the Pond, Lake or River.

Best Grade Polished Cast Steel, Deep, Plain Tooth, Teeth Filed and Set; 11 Gauge Steel Blade, 5 inches Wide at Point, 7 inches Wide at Butt; Japanned Malleable Iron Handle, with Beech Hand Bar; Handle Fastened to Blade with Removable Bolt and Pin.

Length, Feet	6	4½	5
Weight Each, lbs.	11	12	13
Each	$7.00	7.70	8.30



★DIAMOND EDGE, Hand

For Use on Ice Wagons, in Cold Storage Houses and by Ice Dealers

15 Gauge Steel Blade, Width at Heel 5⅛ inches; Japanned Malleable Iron Handle Fastened to Blade by Two Heavy Iron Rivets; Deep Plain Tooth.

Nos.	DEH24	DEH26	DEH28	DEH30
Length, inches	24	26	28	30
Wt. Each, Lbs.	2½	3	3¼	3½
Per Dozen	$24.00	25.50	27.50	28.50

Loose

Single Station Mechanical Clocks

For Inside or Outside of Building — No Wiring Required

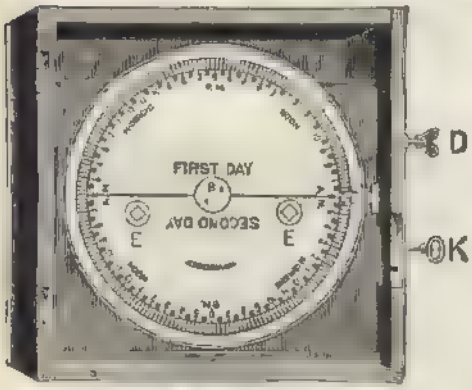


Fig. 1275
With the Door Removed

Full size 11 x 11 x 4 inches
Price with one year's supply of paper dials, complete, $12 00

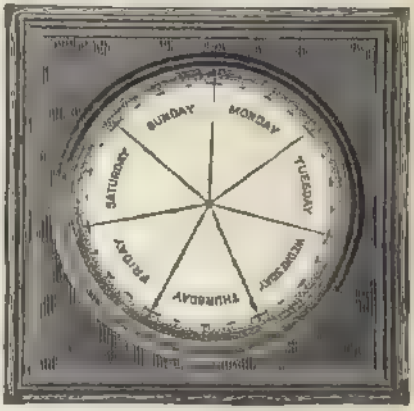
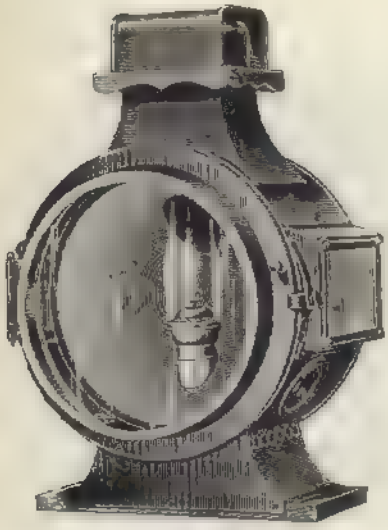


Fig. 1276

Full size 12 x 12 x 4 inches
Price, with one year's supply of paper dials, complete, $15 00

This system consists in having one of these clocks at each station. The watchman inserts his key at "D" and gives it a slight turn and thereby registers his visit on the paper dial. We make them with a two or a seven day dial, divisions for Day and Night. The case has a glass front and is screwed to the wall from the inside "A" "A"

Small Oil Headlights for Narrow Gauge Engines



No. 545

No. 545

Made in 12⅝-inch size. Takes No. 95 burner, see page 233. Takes No. 90 chimney, see page 149.

For prices, see page 228

No. 546

Made in 10¾-inch size. Designed for traction engines. Suitable also for many other purposes where small portable light is desired. Supplied with hangers if wanted. Takes No. 92 burner, see page 233. Takes No. 87 chimney, see page 149.

For prices, see page 228

No. 546

Small Oil Headlights for Narrow Gauge Engines

No. 1453

No. 1453

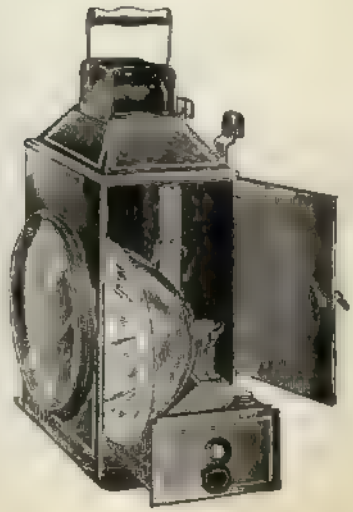
Mine light. Made in 6-inch size. With sperm oil burner no chimney. Dimensions: Extreme height, 10⅞ inches, depth of case, 4½ inches; width of case, 6¼ inches, diameter of glass, 6⅜ inches, reflector, No. 21 brass nickel-plated; inside dimensions, 6 inches diameter, 3 inches deep; net weight, 2 pounds

For prices, see page 228.

No. 560

Back up headlight, 10¾-inch. Takes No. 92 burner, see page 236. Takes No. 87 chimney, see page 149

For prices, see page 228



No. 560

IVER JOHNSON REVOLVERS

DOUBLE ACTION—AUTOMATIC EJECTING

HAMMER—WALNUT GRIP

One Piece Large Walnut Grip, Smooth Finish, No Side Screws; Grip Fastened to Frame on Under Side; Regular Frame. Especially Adapted to the Needs of Sportsmen, Target Shooters, Police Officers and Night Watchmen.

32 Caliber; 5 Shots; Shoots 32 S&W Center Fire Cartridges

	Each
Nickel Plated	
No. 324IWG—4-inch Barrel; Weight 16 ozs.	$14.00
Blued	
No. 2324IWG—4-inch Barrel; Weight 16 ozs.	14.50

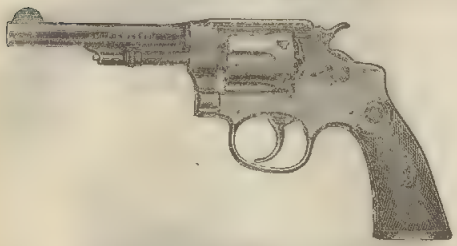
One in a Box

38 Caliber; 5 Shots; Shoots 38 S&W Center Fire Cartridges

	Each
Nickel Plated	
No. 384IWG—4-inch Barrel; Weight 18 ozs.	$14.00
Blued	
No. 2384IWG—4-inch Barrel; Weight 18 ozs.	14.50

One in a Box

SMITH AND WESSON REVOLVERS



REGULATION POLICE MODEL

Double Action, Solid Frame, Swing Out Cylinder, New Patent Safety Hammer Block, Checkered Wood Stock.

32 Caliber, 6 Shot, Shoots 32 S&W 32 S&W Long and 32 Colt's New Police Center Fire Cartridges

	Each
Nickel Plated	
No. 3231/2SRP—3¼ in. Barrel; Weight 19 oz.	$31.50
No. 324½SRP—4¼ in. Barrel; Weight 20 oz.	31.50
No. 326 SRP—6 in. Barrel; Weight 21¾ oz.	31.50
Blued Finish	
No. 2323½SRP—3¼ in. Barrel; Weight 19 oz.	31.50
No. 2324½SRP—4¼ in. Barrel; Weight 20 oz.	31.50
No. 2326 SRP—6 in. Barrel; Weight 21¾ oz.	31.50

One in a Box

38 Caliber, 5 Shot, Shoots 38 S&W 38 S&W Gallery and 38 Short Colts Center Fire Cartridges.

	Each
Nickel Plated	
No. 384SRP—4 in. Barrel; Weight 17¾ ozs.	$31.50
Blued Finish	
No. 2384SRP—4 in. Barrel, Weight 17¾ ozs.	31.50

One in a Box

SMITH & WESSON REVOLVERS

DOUBLE ACTION WITH AUTOMATIC SHELL EXTRACTOR

32 Caliber; 5 Shots; Rubber Handle; Shoots 32 S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 323S—3 inch Barrel; Weight 12½ ozs.	$25 70

Blued

No. 2323S—3 Inch Barrel; Weight 12½ ozs.	25.70

+Engraving to Order, $6.00 to $14.00
One in a Box

HAMMERLESS SAFETY. WITH AUTOMATIC SHELL EXTRACTOR, REBOUNDING LOCK AND PATENT SAFETY. ATTACHMENT

32 Caliber; 5 Shots; Rubber Handle; Shoots 32 S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 328SH—3 inch Barrel; Weight 14¼ ozs.	$27.20

Blued

No. 2328SH—3 inch Barrel; Weight 14¼ ozs.	27.20

Engraving to Order, $10.00 to $30.00
One in a Box

38 Caliber; 5 Shots; Rubber Handle; Shoots 38 S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 383¼SH—3¼ inch Barrel; Weight 17 ozs.	$30 50
No. 384SH —4 inch Barrel; Weight 17¼ ozs.	30 50

Blued

No. 2383¼SH—3¼ inch Barrel; Weight 17 ozs.	30 50
No. 2384SH —4 inch Barrel; Weight 17¼ ozs.	30 50

Engraving to Order, $10.00 to $30.00

One in a Box

PERFECTED MODEL

Double Action with Automatic Shell Extractor

38 Caliber; 5 Shots; Rubber Handle; Side Latch; Shoots 38 S&W Central Fire Cartridges.

The Cylinder in this Perfected Model is Perfectly Locked, Assuring Proper Alignment with the Barrel. The Rebound Block Guards Against Accidental Discharge. The Shells are Automatically Extracted.

Among New Features are its Heavier Frame, its Frame and Guard in One, its Barrel and Sight in One and its Double Locking Device. In this Model for the First Time the Flat Springs, Often a Source of Trouble, have been Replaced by the Serviceable Spiral Springs.

Nickel Plated

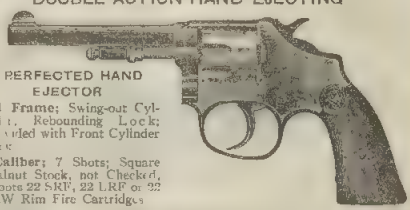
	Each
No. 383½SWP—3¼ inch Barrel; Weight 19½ ozs.	$30.50
No. 384SWP —4 inch Barrel, Weight 20 ozs.	30.50

Blued

No. 2383½SWP—3¼ inch Barrel; Weight 19½ ozs.	$30.50
No. 2384SWP —4 inch Barrel; Weight 20 ozs.	30.50

One in a Box

DOUBLE ACTION HAND EJECTING



22 PERFECTED HAND EJECTOR

Solid Frame; Swing-out Cylinder, Rebounding Lock; Provided with Front Cylinder Lock.

22 Caliber; 7 Shots; Square Walnut Stock, not Checked, Shoots 22 SRF, 22 LRF or 22 S&W Rim Fire Cartridges

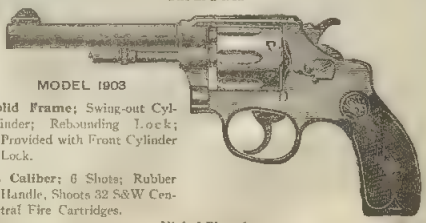
Nickel Plated

	Each
No. 223SN—3 inch Barrel; Weight 11½ ozs.	$27.30

Blued

No. 2223SN—3 inch Barrel; Weight 11½ ozs.	27 30

One in a Box



MODEL 1903

Solid Frame; Swing-out Cylinder; Rebounding Lock; Provided with Front Cylinder Lock.

32 Caliber; 6 Shots; Rubber Handle, Shoots 32 S&W Central Fire Cartridges.

Nickel Plated

	Each
No. 323¼SN—3¼ inch Barrel; Weight 17¾ ozs.	$31 50
No. 324¼SN—4¼ inch Barrel; Weight 18 ⅛ ozs.	31.50

Blued

No. 2323¼SN 3¼ inch Barrel; Weight 18¼ ozs.	$31.50
No. 2324¼SN—4¼ inch Barrel; Weight 19 ozs.	31.50
No. 2326SN—6 inch Barrel; Weight 20 ozs.	31.50

One in a Box

EXTRA QUALITY FINE SOLID GOLD BROOCH PINS Prices Each

[illegible], beautiful finish artistically hand engraved, safety catch

No. 2360 $12 60

[illegible] fancy open work, English finish green gold, paved 4 half pearls, turquoise pearl border, safety catch pendant top ring

No. 2361 $27 75

[illegible] fancy open work, English finish green gold, ornaments 12 half pearls, 2 turquoise pearls, safety catch pendant top ring

No. 2362 $27 75

[illegible] fancy open work, English finish 4 half pearls, safety catch pendant top ring

No. 2363 $19 25

[illegible] English finish artistically hand engraved, safety catch, pendant top ring

No. 2364 $17 25

[illegible] English finish, artistically hand engraved safety catch, pendant top ring

No. 2365 $13 50

[illegible] English finish, artistically hand engraved, safety catch, pendant top ring

No. 2366 $21 00

[illegible] fancy open work Roman gold finish, carved 4 half pearls, safety catch pendant top ring

No. 2367 $23 25

[illegible] fancy open work and alternate gold and pearl border, English finish, safety catch pendant top ring

No. 2368 $31 00

[illegible] cameo, English finish artistically hand engraved safety catch, pendant top ring

No. 2369 $26 25

[illegible] cameo, English finish artistically hand engraved safety catch

No. 2370 $27 00

[illegible] cameo, English finish artistically hand engraved safety catch pendant top ring

No. 2371 $31 25

[illegible] cameo, English finish artistically hand engraved safety catch pendant top ring

No. 2375 $36 75

[illegible] fancy design, hand engraved, fine imported center, 4 pearls safety catch

No. 2372 $9 75

[illegible] fancy design, fine imported safety catch

No. 2373 $8 00

[illegible] fancy design, hand engraved topaz center, 4 pearls

No. 2374 $5 75

[illegible] fancy work (knife edge), 2 fine sapphires, 2 whole pearls, safety catch

No. 2376 $5 75

[illegible] fancy work, scalloped edge, fine white pearl safety catch

No. 2377 $9 50

[illegible] gold [illegible] pink coral rose [illegible] safety catch

No. 2378 $7.50

EXTRA QUALITY FINE SOLID GOLD BROOCH PINS

Prices Each

Roman finish
No. 2379. . . . . $3 25

Polished
No. 2381 . . . . . $2 10

Roman finish, 3 pearls
No. 2384 . . . . . $3 00

Roman finish
No. 2382 . . . . . $2 65

Polished, finest quality opal set
No. 2383 . . . . . $8 25

Polished, set with 1 opal and 48 half pearls
No. 2385 . . . . . $12 50

Polished, set with 1 opal and 48 half pearls
No. 2386 . . . . . $16 75

Polished, green gold leaves, ruby set, 22 genuine half pearls
No. 2356. . . . . $16 25

Roman finish, amethyst center, 4 half pearls, gold chamfered pierced design, safety catch
No. 2387 . . . . . $14 00

Rose gold and polished finish, genuine pearl set
No. 2388. . . . . $6 25

Polished finish, green gold leaf, genuine pink coral rose and pearl set, safety catch
No. 2389 . . . . . $8 00

Roman and rose gold finish, genuine pearl set.
No. 2390 . . . . . $9 00

Polished, 55 half pearls, safety catch
No. 2391 . . . . . $23 25

Polished finish, green gold leaves, 1 ruby and 8 pearls set cluster
No. 2392. . . . . $3 75

Polished finish, green gold bird, pearl center, blue sapphire set, fine pearl set border
No. 2313 . . . . . $5 25

Polished genuine white pearl center, 30 fine half pearls.
No. 2394 . . . . . $8 50

English finish, green gold leaf, fine baroque pearl
No. 2395 . . . . . $5 50

Roman bright cut finish, 19 fine half pearls
No. 2396 . . . . . $6 00

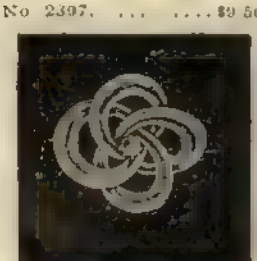
Polished, 7 fine amethysts and 54 fine half pearls, safety catch
No. 2397. . . . . $9 50

English finish, gem filigree edge, 4 fine blue sapphires, 8 baroque pearls, safety catch
No. 2398 . . . . . $13 50

Engraved set fancy open work, 2 baroque pearls, safety catch
No. 2399 . . . . . $14 00

Polished crescent and star, green gold leaf, 1 whole pearl and 21 half pearls
No. 2400 . . . . . $7 00

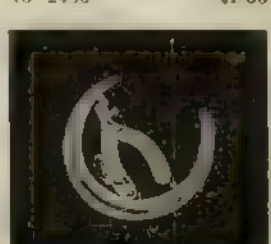
Polished fine white pearl center, 18 fine half pearls
No. 2401. . . . . $5 75



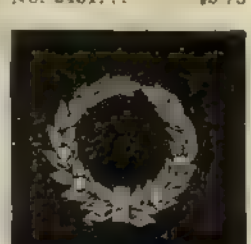
Roman finish, beaded, fine quality
No. 2402 . . . . . $4 75

Polished finish, fine pearl set
No. 2403 . . . . . $4 50

Roman finish, fine ruby set
No. 2404 . . . . . $5 25

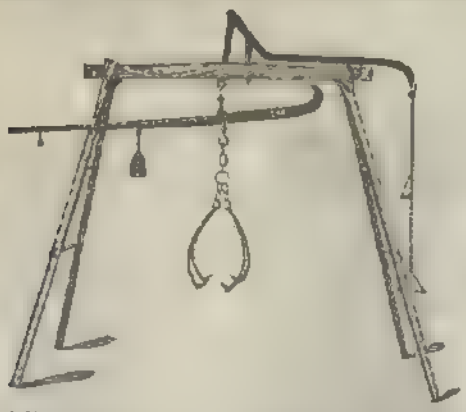


Roman finish, 11 fine half pearls
No. 2405 . . . . . $5 25



Rose gold wreath, 9 fine half pearls
No. 2406 . . . . . $5 50

SOUTHERN COTTON SCALES



Varnished Hardwood Frame; Wrought Iron Cross Bars, Levers and Bolts; Malleable Iron Braces at Joints; Floor Space Occupied, 8 feet 11 inches by 3 feet 4 inches; Height under Cross Bar 7 feet; Complete with Wrought Iron Chain Down Haul and Cotton Hooks, Cast Iron Balance Poise and 10 lb. Poise.

	Each
CAPACITY 700 POUNDS	
No. 431—Japanned Iron Beam; Notched Top	$73.50
✣ No. 433—Polished Steel Beam; Notched Top	88 00
No. 435—Japanned Iron Beam; Smooth Top	80.00
No. 437—Polished Steel Beam; Smooth Top	96.00
CAPACITY 800 POUNDS	
✣ No. 432—Japanned Iron Beam; Notched Top	$88 00
✣ No. 434—Polished Steel Beam; Notched Top	102 00
No. 436—Japanned Iron Beam; Smooth Top	96.00
No. 438—Polished Steel Beam; Smooth Top	110 00

One Outfit in a Bundle; Weight Each About 155 lbs.

✣ EXTRA PARTS FOR SOUTHERN COTTON SCALES

FRAMES ONLY

	Each
Frame for 700 lb. Capacity Scales	$42 00
Frame for 800 lb. Capacity Scales	52 00

Average Weight Each about 90 lbs.

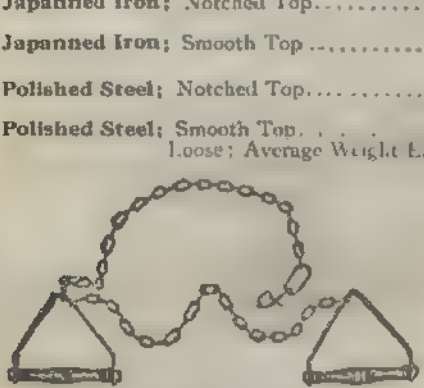
BEAMS ONLY

Capacity 700 Pounds	Each
Japanned Iron; Notched Top	$42 00
Japanned Iron; Smooth Top	42 00
Polished Steel; Notched Top	62 00
Polished Steel; Smooth Top	62 00

Average Weight Each 40 lbs.

Capacity 800 Pounds	Each
Japanned Iron; Notched Top	$52 00
Japanned Iron; Smooth Top	52 00
Polished Steel; Notched Top	71 00
Polished Steel; Smooth Top	71 00

Loose; Average Weight Each 50 lbs.



✣ CHAIN DOWN HAULS

Each

Wrought Iron; Length Over All 4½ feet; Weight Each 2½ lbs $4 50

Loose

✣ COTTON HOOKS

Each

Wrought Iron; Length Over All 3½ feet; Weight Each 8 lbs $8 00

Loose

SCALE BEAMS

STANDARD

Tested by Sealed Weights

Forged Steel; Black Japanned, Red Striped; White Figures and Markings; Complete with Cast Iron Poises.

Nos.	150	200	250	300	360	400	500	600	800
Capacity, Lbs.	150	200	250	300	360	4[illegible]	500	[illegible]0	8[illegible]
Poises, Lbs.	1&4	1&4	2&8	4&8	4&8	4&16	4&16	8&16	8&13
Wt. Case, Lbs.	57	60	95	110	122	1[illegible]	1[illegible]	225	241
Each	$1 50	1 60	1.90	2 10	2.50	2 [illegible]	3 50	4 00	5 50
	2.50	2 60	3.10	3.40	4.10	4.70	5.70	6.50	8.60

Six in a Case

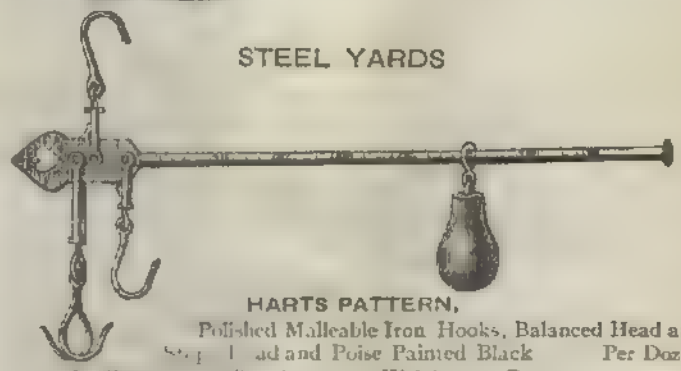
SCALE BEAM POISES

Cast Iron, Painted

Nos.	1	2	4	8	16
Weight Each Lbs.	1	2	4	8	16
Each	$0 50	.70	.90	1.70	3.00

Loose

STEEL YARDS



HARTS PATTERN.

Polished Malleable Iron Hooks, Balanced Head and Steel Head and Poise Painted Black

	Per Dozen
✣ No. 50 Capacity 50 lbs. by [illegible] ozs.; Weight per Dozen 4 [illegible] lbs	$19.50
No. 100 Capacity 100 Lbs. by 2 ozs.; Weight per Dozen 55 lbs	21.50
No. 150 Capacity 1[illegible] lbs. by 4 ozs.; Weight per Dozen 61 lbs	26.00
No. 200 Capacity 200 Lbs. by 4 ozs.; Weight per Dozen 80 lbs	32.00
✣ No. 250 Capacity 250 lbs. by 4 ozs.; Weight per Dozen 1[illegible] lbs	39 00
✣ No. 300 Capacity 300 lbs. by 4 ozs.; Weight per Dozen 1[illegible] lbs	46.00

Half Dozen in a Box

SCALE WEIGHTS

Cast Iron

For Counter Scales

Wt., Ozs.	¼	½	1	2
Each	$0 50	50	.50	.50

Wt., Ozs.	4	8	16
Each	$0 50	80	.80

Wt., Lbs.	2	4	8
Each	$1 10	1 70	1 90

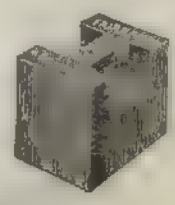
Loose

Weights in Sets

	Per Set
Set of 6, from ¼ to 8 oz.	$1 80
Set of 7, from ¼ to 16 oz.	2.50

Loose

TEST WEIGHTS



UNITED STATES STANDARD

Weight 50 lbs.; Made of Gray Iron.

	Each
No. TW50S—Sealed	$11.50

Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory: Southern Cotton Scales and Extra Parts from New York City or St. Louis, Chain Down Hauls and Cotton Hooks from New York City or St. Louis; Steel Yards from Cleveland, O.

SCALES FOR EXPORT

PORTABLE PLATFORM SCALES

★MOUND CITY

A Good, Serviceable Scale at a Moderate Price. Black Japanned Cast Iron Frame and Wheels; Pillar and Cap are Painted Blue, Striped and Varnished; Brass Beam and Sliding Poise; Cast Iron Weights.

Marked in Kilos

	Capacity 400 Kilos by 20 Grams	Size Platform, Inch	Weight Each Lbs.	Each
No. M800M—		16½x24	150	**$36 00**

One in a Box

COUNTER SCALES

★DIAMANTE

Diamante Counter Scales are Designed and Built Especially to Meet the Requirements of the Hardware Dealer

The Bearings are Case Hardened Tool Steel; Sharp Clean Cut and Very Sensitive, the Levers are All Steel (not Cast Iron) and will Stand the Most Severe Strain; painted Vermilion Striped in Gold.

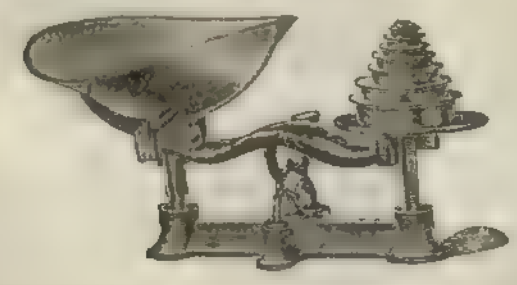
The Beams and Poises are Solid Cast Brass, Highly Polished and Guaranteed to be Accurately Graduated; the Upper Edge of the Beam is Smooth and the Sliding Poise Moves Easily and Quickly without Friction.

Capacity 120 Kilos by 20 Grams; Size of Platform 12½x9½ inches; Size of Scoop 20½x11 inches

	Each
SINGLE BEAM, WITH FORK	
Diamante—With Brass Scoop; Weight Each 60 lbs.	**$14.00**

One in a Box

HATCH PATTERN TEA

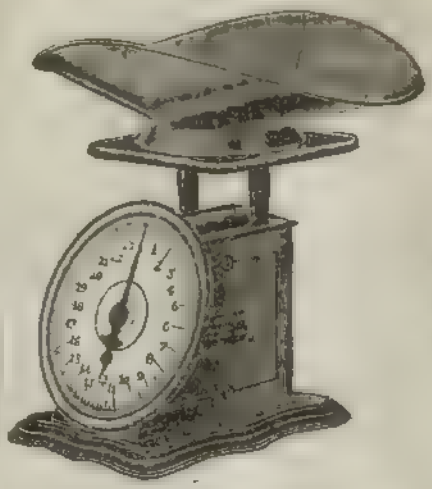


	Per Dozen
No. HPT4M—Capacity 2 Kilos by 10 Grams; Japanned Cast Iron Frame, Levers and Weights; Length of Base 9½ inches; Tin Scoop, Size 2x5½ inches; Weight Each 9 lbs.	**$21.00**

Quarter Dozen in a Box

SCALES FOR EXPORT

SLANTING DIAL FAMILY SCALES



Marked in Kilos

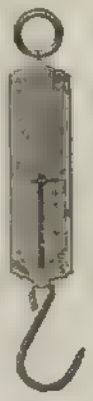
The Dial is Set at an Angle and Can be Read Without Stooping; Platform Does Not Shade Dial; Figures and Markings are Plainly Marked; Frame is Black Enameled, Aluminum Bronze Decorated.

	Each
WITH PLATFORM AND SCOOP	
No. 025M—Capacity 10 Kilos by 5 Grams; Height About 11 inches; Tin Scoop, Size 12¼x7¼ inches; Weight Each 4½ lbs.	**$3.00**

One in a Box

SPRING BALANCES

Marked in Kilos



STRAIGHT, LIGHT

Black Japanned, Stamped Steel Case; Polished Brass Face Stamped Figures and Lines; Tinned Steel Hook and Ring.

No.	20M
Capacity, Kilos	11
Graduation, Kilos	¼
Length, Case, Inches	5
Width, Inches	1½
Length Over All, Inches	8
Weight per Dozen, Lbs.	6
Per Dozen	**$2.50**

One Dozen in a Box

STRAIGHT, HEAVY

Black Japanned, Stamped Steel Case; Polished Brass Face; Stamped Figures and Lines; Tinned Steel Hook and Ring.

No.	70M
Capacity, Kilos	22
Graduation, Kilos	¼
Length, Case, Inches	8¼
Width, Inches	2½
Length Over All, Inches	13
Weight per Dozen, Lbs.	9¾
Per Dozen	**$12.50**

Half Dozen in a Box

SPEEDING UP!

Handles Dirt Faster And Cheaper 50%

SPAULDING 2 IN 1 ROAD MACHINE Helps You Solve The Labor Shortage Problem

The new, modern, fast and **easy** way to handle dirt. A special machine that **cuts costs.** Enables you to **move dirt just as fast with half the crew** or **twice as fast with the same crew.** Nothing experimental or freakish. Absolutely proven **right** by the biggest contractors in Iowa. Moves dirt, sand, or gravel **faster than four wheel scrapers—one man and four horses do the work.** Digs dirt out, no plowing necessary. Self-loading, **puts on 1 1-2 yards of dirt in 30 seconds.** Spreads dirt evenly or dumps in piles as desired.

Investigate Now! Write us for full information, **let us "show" you.** Ask for special jobbers and dealers proposition if prepared to represent us in your territory. **SPAULDING MFG. CO.**
Dept. 240, Grinnell, Iowa

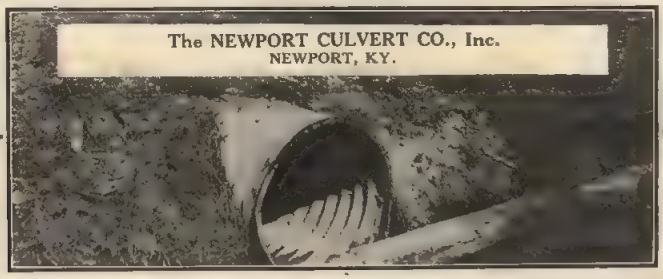
A City Official

writing us recently says among other things: "Your

'Genuine Open Hearth Iron' Culverts

are certainly well adapted to city use as they can be laid nearer the surface of our streets than other types of culvert and are much easier installed than the pipes that come in short sections."

A pure Iron-Copper Alloy Sheet with a heavy spelter coat makes an ideal material for culvert construction. And that's what our culverts are made of. They are practically permanent. Let us send you our booklet and prices.



The NEWPORT CULVERT CO., Inc.
NEWPORT, KY.

A City Official

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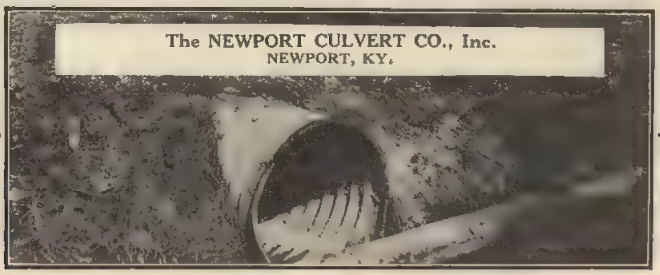

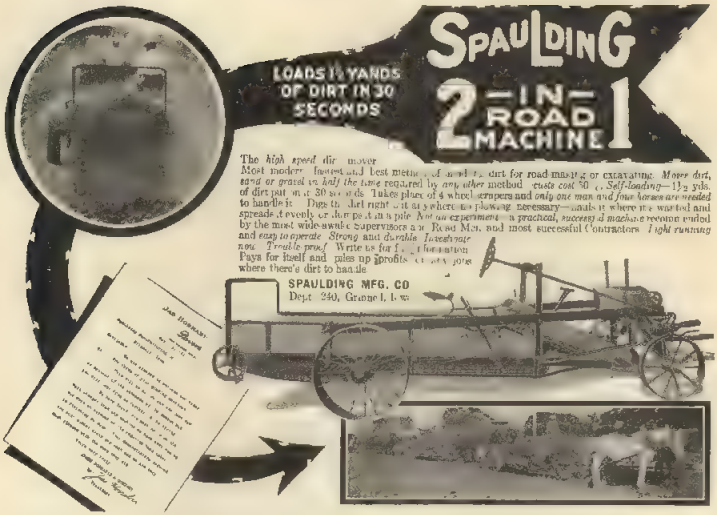

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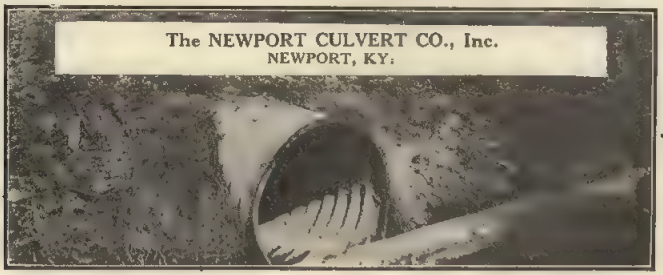


Spear's Anti-Clinker Railroad Car Heater and Ventilator

A C. B Pattern

Fig 1400

"C" Pattern

Fig. 1401

"D" Pattern

Fig. 1402

No. 16. "A" Pattern

With Hot Air Pipe Extending Along the Sides of The Car

Prices	No. 16	Smaller Size No. 15
Price of new heater with pipes and ventilator now top plate and heat screen	$52 00	$46 00
Fire-proof bottom	2 50	2 50
Cast iron connecting elbow	2 50	2 50
Two bronze rings for head linings	2 00	2 00
Six 4¾ x 6½ brass register plates	4 50	4 50
38 feet 4 x 6 tin pipe for side of car, 25 cents per foot	9 50	9 50
Subject to a discount of . .... per cent		
Total	$7 00	$67 00

No. 16. "C" Pattern

With Anti-Clinker Grate
For Anthracite or Bituminous Coal or Coke

Prices	No. 16	Smaller Size No. 15
New heater with pipe and ventilator and heat screen	$42 00	$38 50
Fire-proof bottom	2 50	2 50
Bronze ring for head lining	1 00	1 00
	$46 50	$40 00

No. 16. "D" Pattern

With Anti-Clinker Grate
For Anthracite or Bituminous Coal or Coke

Prices	No. 16	Smaller Size No. 15
New heater with pipe and cap, register and heat screen	$40 00	$36 00
Fire-proof bottom	2 50	2 50
Bronze ring for head lining	1 00	1 00
	$43 50	$39 50

Key for Ordering Repairs

For The

Inside and Outside Parts of Spear's Railway Car Heaters and Ventilators

No. 1 Outside top plate for stoves A and B. Collar in the center
No. 3 Outside (valve) top plate for stove C. Collar in center
No. 3 Outside top plate for stove D. Collar in center
No. 4 Valves for top plate of stove C
No. 5 Inside top plate for stoves A, B, C, and D. Collar in the center
No. 6 Fire pot or cylinder for stoves A, B, C, and D. Collar in the center
No. 7 Ash pit base for stoves A, B, C, and D
No. 8 Bottom plate for stoves A, B, C, and D
No. 9 Back base plate, outside for stoves A, B, C and D
No. 10 Inside ring for stoves A, B, C, and D
No. 11 Door and door frame for stoves A, B, C, and D
No. 12 Door frame for stoves A, B, C, and D
No. 13 Door without frame for stoves A, B, C, and D
No. 14 Grate and grate bar for stoves A, B, C, and D
No. 17 Ash pit front, with doors, for stoves A, B, C, and D
No. 18 Openwork base plate, outside, for stoves C and D
No. 19 Ring and base plates for stove A
No. 20 Openwork base plates with ring and ash pit doors, for stoves C and D
No. 22 Top ring of base plates for stoves C and D
No. 24 Outside top plate for stoves A and B. Collar set back
No. 24 Outside (valve) top plate for stove C. Collar set back
No. 25 Outside top plate for stove D. Collar set back
No. [illegible] Inside top plate for stoves A and B. Collar set back
No. 27 Inside top plate for stoves C and D. Collar set back
No. 28 Fire pot or cylinder for stoves A, B, C, and D. Collar set back
No. 29 Back division strips for stoves A and B
No. 31 Front division strips for stoves A and B
No. 32 Cast iron hot air elbow and box for stove A
No. 33 Fire-proof bottom for stoves A, B, C, and D
No. 34 Bright metal rings for ceiling of cars
No. 35 Galvanized ventilator for stoves A and B.
No. 36 Galvanized ventilator for stove C
No. 37 Galvanized cap for stove D
No. 38. Side base plate with clean-out door for stove A.
No. 39. Clean-out door for stove A
No. 40 New and cast iron connecting elbow for stove A.
No. 41 Improved top ring of base plates for stoves C and D
No. 42 Improved top base ring for stoves A and B
No. 43 Improved outside top plate for stoves A and B. Collar set back
No. 44 Improved outside (valve) top plate for stove C. Collar set back
No. 45. Improved outside top plate for stove D. Collar set back.
No. 46 Heat and draft regulator for stoves A, B, and D.

In ordering, please use the number and name given above for each part ordered, and give the size of the heater. In the [illegible] letter to refer to stove A, B, C or D. Also please [illegible] to state whether the pipe collar is on the center of the heater or set back from the center. We make two sizes of these heaters. No. 1 is the larger, No. 2 the smaller. When large quantities of repairs are needed they should be ordered during the summer months, so they are [illegible] made before the cold weather sets in.

FISHING TACKLE SIGNS

★DIAMOND BRAND

★DIAMOND

Each

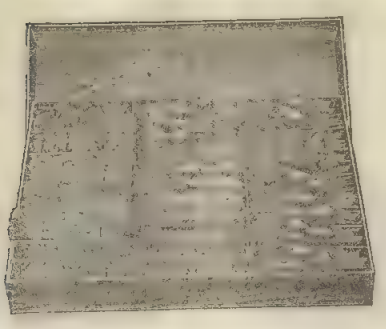
No. DFS—Heavy Stamped Tin, Finished with a Heavy Coat of Gold Bronze; the Words "Diamond Tackle" Lettered in Black; Both Sides of Sign are Stamped Out of a Sheet of Tin and Soldered Together, Giving it the Exact Shape of the Living Fish; Rings Soldered in Back, so Sign Can be Suspended in any Convenient Place. This Sign Should be Hung in Front of Every Dealer's Store in Fishing Tackle. It is Appropriate and Helps to Increase Business. Size 24 inches Long by 10½ inches Through Widest Part; Weight 1¼ lbs..... **$5.00**
Loose

FISHING TACKLE ASSORTMENTS

★TRIUMPH

Triumph

TRADE MARK



A Most Convenient and Complete Fishing Tackle Assortment, Which will Help the Retailer Very Materially in Supplying the Demands of the Trade Assortment Consists of good Quality Cotton Lines, Floats, Sinkers, Fish Hooks and Furnished Lines. This Assortment is Gotten up for the Retail Dealer Whose Trade is Limited to Staple Items of Fishing Tackle.

CONTENTS

100 Hooks No. CB22.
100 Hooks No. CB25.
100 Hooks No. K1.
100 Hooks No. K3.
100 Hooks No. K7.
100 Hooks No. K9.
100 Hooks No. K2/0.
100 Hooks No. K4/0.
100 Hooks No. EC2/0.
100 Hooks No. EC3/0.
1 Dozen Sinkers No. BB.
6 Dozen Lines No. E1.
2 Dozen Lines No. E2.
1 Dozen Lines No. S15.
1 Dozen Lines No. S3 7.
1 Dozen Furnished Lines No. 100.
3 Dozen Furnished Lines No. 200
⅔ Dozen Furnished Lines No. 500.
⅓ Dozen Furnished Lines No. 600.
1 Ball 2 oz. Staging.
½ Dozen Floats No. W1½.
½ Dozen Floats No. WAB3½.
1 Dozen Sinkers No. C1. 1 Dozen Sinkers No. C2. 1 Dozen Sinkers No. C3.

Each

Triumph Fishing Tackle Assortment; in Black Cloth Covered Cardboard Boxes; Size 15½ x 19¼ x 2¾ inches, Weight Each 7½ lbs..... **$12.00**

SPORTSMEN'S ENCYCLOPEDIAS

A Combined Complete Outdoor or Sportsmen's Library. By Col. F. H. Buzzacott

Contains 544 Pages, 856 Illustrations, 114 Full Page Illustrations

A Complete Sportsmen's and Outdoor Lovers Encyclopedia of Surprising Fact and Instruction; Contains Facts and Forty Years Startling Experiences and Instruction in the Ways of Famous Hunters, Scouts, Guides, Explorers, etc.

Each

Sportsmen's Encyclopedia—The Complete Works of Col. F. H. Buzzacott; Bound in Cloth and Gold; Size 7x5x1 inches; Weight 20 ozs. **$1 70**

JERSEYS

SOLID COLORS

Pure Cut Worsted Wool; Full Fashioned Double Collars and Cuffs

Per Dozen

No. J250N Navy Blue; Sizes 40 and 42; Weight per Dozen 8 lbs..... **$60 00**

No. J250M Maroon, Sizes 40 and 42; Weight per Dozen 8 lbs..... **60 00**

No. J250G Gray, Sizes 40 and 42; Weight per Dozen 8 lbs..... **60 00**

One Dozen in a Box

Made in our own mills from Specially Dyed Yarn. Factory-to-Consumer Service

BATHING SUITS

*DIAMOND BRAND

NOTE—Specify Sizes when Ordering

WOMEN'S ONE PIECE BATHING SUITS

California Style -Sleeveless

A very Popular One Piece Suit made in Imitation of a Two-Piece Suit. The Skirt is Attached to Lower Garment; Put on Like an Ordinary One-Piece Combination Suit, Buttoned on Shoulders. It has All the Advantages and None of the Disadvantages of the Two-Piece Suits.

Per Dozen

No. WC10 -Good Grade Heavy Cotton; Buttons on Left Shoulder; Sizes 36 to 48 inches; Color Black, Trimmed in Black and White Stripes; Weight 12 ozs.. . $84 00

Quarter Dozen in a Box

Per Dozen

No. WC20—Good Grade Wool Suit; Buttons at Shoulders, Sizes 38 to 48 inches Color Navy Blue, Trimmed in White; Weight 1¼ lbs. $96.00

One in a Box

No. WC30 -Good Grade Wool Suit; Buttons at Shoulders, Sizes 38 42-44 0 inches; Color Kelly Green; Trimmed in White; Weight 1¼ lbs 96 00

One in a Box

MEN'S ONE PIECE BATHING SUITS

California Style—Sleeveless

Popular One-Piece Suit. Made in Imitation of a Two-Piece Suit, the Skirt which, in Appearance is the Bottom of the Shirt Attached, Put on Like An Ordinary One-Piece Combination Suit, Buttons on Left Shoulder. It has all the Advantages and None of the Disadvantages of the Two-Piece Suits.

Per Dozen

No. MCO—Good Grade Cotton; Sizes 34 to 46 inches; Color Navy Blue, Bottom of Shirt, Pants, and Arm Holes Trimmed with White; Weight 6 ozs...$30.00

Half Dozen in a Box

Per Dozen

No. MC1—Good Grade Cotton; Sizes 34 to 46 inches; Color Royal Blue with 3½ inch Stripe on Shirt; and 2 inch Stripe on Pants; Weight 8 ozs.....$48 00

Half Dozen in a Box

Per Dozen

No. MC2—Good Grade Cotton; Striped; Buttons on Shoulder, Sizes 34 to 46 inches; Color, Navy Blue; Bottom of Shirt, Pants and Arm Holes Trimmed in Green; Weight 8 ozs..... ....$54 00

Half Dozen in a Box

No. MC3—Good Grade All Wool; Buttons on Shoulder; Sizes 34 to 46 inches; Color, Navy Blue; Bottom of Shirt and Pants Trimmed with 2¼ inch White Stripe; Weight 12 ozs..... 102.00

One in a Box

No. MC4 -Good Grade All Wool; Buttons on Shoulder; Sizes 34 to 46 inches; Color Gray, Bottom of Shirt and Pants Trimmed with 2¼ inch Kelly Green Stripe; Weight 12 ozs... 102.00

One in a Box

BOYS' SUITS

Per Dozen

No. BC1—Good Grade Cotton; Buttons on Shoulder; Sizes 24 to 34 Inches; Color Navy Blue; Bottom of Shirt, Pants and Arm Holes Trimmed in Red; Weight 6 ozs. $27 00

Half Dozen in a Box

BATHING CAPS

* DIAMOND BRAND

Nos. 25 and 50.

No. 55

Per Dozen

No. 25—Plain Black with White Reinforcing Band; Weight per Dozen 1¼ lbs.. . . . . $5 00

No. 50—Plain Terra Cotta Red with Variegated Moire Rubber Reinforcing Band; Weight per Dozen 1¼ lbs. 9 00

No. 55—Cream Color with Cream Color Rubber Reinforcing Band; Black Rubber Applied Butterfly Design; Weight per Dozen 2½ lbs. 11 00

Half Dozen in a Box

No. 75.

No. 100.

Per Dozen

No 75—Orange with Wide Reinforcing Band of Same Material; Large Tufted Rubber Bow in Imitation of Variegated Moire Silk; Weight per Dozen 2 lbs. $13 00

No 100 Large Heavy Green with Red Reinforcing Band and Applied Red Rosette with Green Bow; Gathered Fullness, Wearing it Roomy; Weight per Dozen 3½ lbs. 17 00

Half Dozen in a Box

WATER WINGS

AYVAD

These Wings Will Support a Man of 250 lbs. as Easily as a Boy of 50 lbs., for the Reason That it Takes Less Air to Support a Large Body than a Small One. To Use: Wet the Wings Thoroughly, Inflate Until the Air Bubbles from the Seams; Then Press Together the Two Ring Marks Under the Mouth Piece; Weight Each 3 oz.; Size 12x24 inches.

Per Dozen

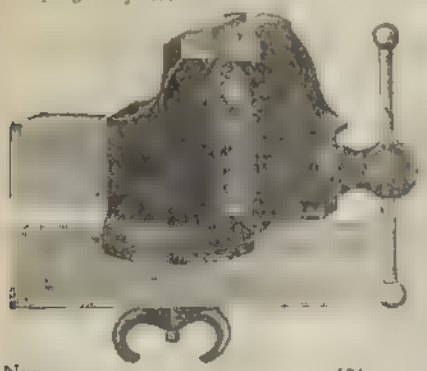
No. WW1 Plain White Good Quality $7 20

No. WW2 Assorted Bright Fancy Colors 9 00

One Dozen in a Box, Weight per Dozen 1¼ lbs

COMBINATION ANVILS AND VISES

For Farmers, Repair Shops and Light Forging; Have Horn for Shaping Purposes.



STANDARD

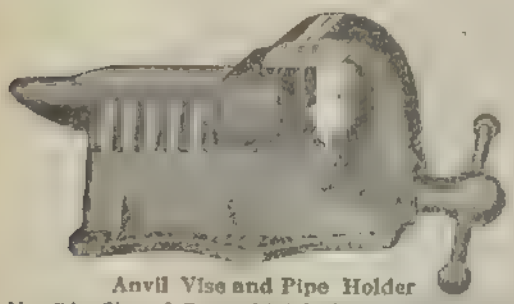
General Purpose Machinists Vise with Pipe Jaws.

Swivel Base, Reversible Pipe Jaws, Cut and Milled from Best Quality Steel.

Japanned Cast Iron Body; Welded; Steel Faced Parallel Jaws; Polished Steel Screw and Sliding Handle; Polished Jaws and Cut-

Nos.	401	402	403
Width of Jaws, inches		4½	5
Pipe, inches		3/8 to 3	⅛ to 4
Weight Each, lbs.	44	66	110
Each	$16 00	22 00	32 00
	22 40	30 80	44.80

Loose



Anvil Vise and Pipe Holder

STAR

Cast Iron Body, Head, and Horn; Solid Cut Thread Screw; Steel Handle, Hardened Anvil Face and Horn; Jaws Faced with Hardened Steel Positive Lock Movable Jaw on Anvil Body; Milled Pipe Grip Jaws; Painted Green. Each

No. 5A—Size of Face [illegible]; Width of Jaws [illegible]; Jaws Open [illegible] inches; Height [illegible] . $8 50

One in a Case

DRILL ATTACHMENTS

STAR

For Use with No. 5 Star Vise

For Drilling Metal or Woodwork.

Cast Iron, Painted [illegible] Polished [illegible] Steel Work [illegible] Wood Drill; **Adjustable Work Support;** Attachment is Firmly Held in Jaws of Vise, as it Does not Depend upon Vise Screw to Get its Feed

Each

No. 5D—Weight 11½ lbs. . $4.00

One in a Box

STEWART

Handy Combination Tool for Farmers, Garages and General Repair Work

[illegible] Tools, a strong and Powerful [illegible] Cold Iron and Brass Turning, Boring, Facing, Screw Cutting, Drilling, Reaming, Milling, Grinding, Polishing, Buffing, Valve Refacing, Valve Seat Reseating, Valve Guide Reboring, Valve Stem Straightening, Valve Spring Testing, Piston Ring Grinding, Piston Ring Compressing, Piston Ring Expanding, Piston Ring Testing, Piston Ring Fitting, Piston Ring Gapping, Piston Ring Squaring, Piston Ring Beveling, Piston Ring Lapping, Piston Ring Honing, Piston Ring Polishing, Piston Ring Buffing, Piston Ring Coating, Piston Ring Plating, Piston Ring Painting, Piston Ring Marking, Piston Ring Numbering, Piston Ring Lettering, Piston Ring Packaging, Piston Ring Shipping, Piston Ring Storing, Piston Ring Handling, Piston Ring Inspecting, Piston Ring Testing, Piston Ring Fitting, Piston Ring Gapping, Piston Ring Squaring, Piston Ring Beveling, Piston Ring Lapping, Piston Ring Honing, Piston Ring Polishing, Piston Ring Buffing, Piston Ring Coating, Piston Ring Plating, Piston Ring Painting, Piston Ring Marking, Piston Ring Numbering, Piston Ring Lettering, Piston Ring Packaging, Piston Ring Shipping, Piston Ring Storing, Piston Ring Handling, Piston Ring Inspecting

Grinding Wheel 6x1 [illegible] set, 4 to 1 and 16 to 1; Cast Iron Frame and Handle, Painted Green, Polished Face and Jaws; Length 22 inches; Height 11¾ inches.

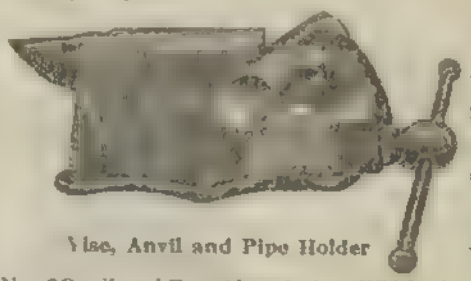
Each

No. SHT—Weight 93 lbs. . $19.60

One in a Box

COMBINATION ANVILS AND VISES

For Farmers, Repair Shops and Light Forging; Have Horn for Shaping Purposes.



Vise, Anvil and Pipe Holder

AUSTIN PATTERN

Cast Iron Body, Head Slide and Horn; Solid Steel Screw and Sliding Handle Face and Jaws Chilled, Hardened and Polished; Pipe Holding Jaws; Painted Black.

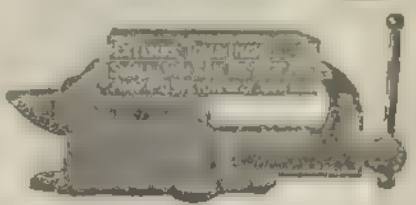
Each

No. 3C—Size of Face 8[illegible] inches; Width of Jaws 3 inches; Jaws Open 5 [illegible] Pipe ¼ to 3 inches; Length 16 inches; Height 5[illegible], Weight 33¾ lbs. . $4 20

Loose

Cast Iron Body, Head and Horn; Wrought Iron Screw and Sliding Handle; Hardened and Polished Face and Jaws, Toothed Pipe Holding Jaws; Wrought Iron Bolt Slide, Painted [illegible] Each

No. 3A—Size of Face 7 3/4 inches; Width of Jaws 3 [illegible] Jaws [illegible], Holds Pipe ¼ to 2 inches; Length 16½ inches; Height 5 inches; Weight 23½ lbs. . $3.50



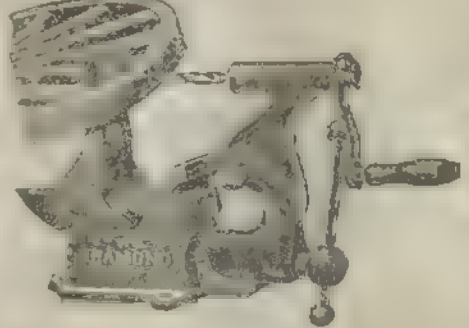
DIAMOND

Cast Iron Body, Head Slide and Horn; Steel Screw and Slide Handle; Hardened Face and Anvil; Polished and tempered Steel Faced Jaw; Positive Lock Movable Jaw; Painted Green.

No. D—Size of Face 7x2¾ inches; Width of [illegible] Jaws Open 10¼ inches; Size of Screw [illegible] inches; Length 16½ inches; Height 6¾ inches; Weight 44 lbs. . $6.50

One in a Case

DIAMOND DRILL ATTACHMENTS



For Use with No. D Diamond Vise

[illegible] Improved [illegible] Screw [illegible] or Wood Work; Will be found Convenient and Easy to Put in Operation.

Each

No. DD—Cast Iron, Painted Green; Polished Chuck; Hardwood Handle; Takes Square Shank, Bit Stock Drills or [illegible] up to ¾ inch; Weight 15½ lbs. . $3 20

One in a Case

ANVILS

* BLACK PRINCE

Wrought Iron Body; Tool Steel Face

Body is Solid Forged in Two Pieces, Welded at the Waist; the Face is One Solid Piece of Special High Grade Tool Steel, Welded to the Body Carefully Ground Smooth and Polished.

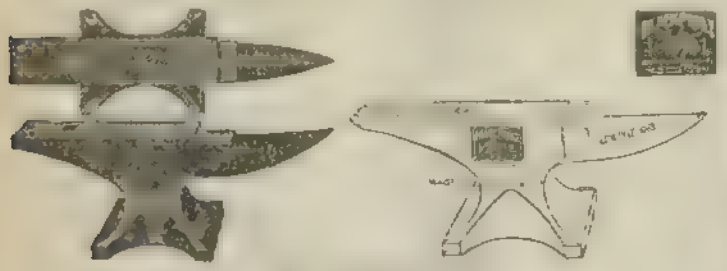
Guaranteed for One Year Against Defects of Material or Manufacture.

Features—Long, Perfectly Shaped Horn and Heel; Great Area and Spread of Base, Giving Steadiness when Working at End of Horn.

Special Tempered Edges to Prevent Chipping.

Hardie and Pritchel Holes and Other Mechanical Details Accurately Designed.

We Charge for Actual Weight of Anvils.



BLACKSMITH

For General Forging

Nos.	✢10	✢20	✢30	✢40	✢50
Approx. Wt., lbs.	10	20	30	[illegible]	[illegible]
Face, in.	2x6	2¼x7	2½x8	[illegible]	[illegible]
Horn, in.	3½	4	5	[illegible]	[illegible]
Hardie Hole, in.	½	⅝	⅝	¾	[illegible]
Pritchel Hole, in.	⅜	⅜	⅜	½	½
Per Pound	$0 76	64	54	50	46

Nos.	✢60	✢70	80	100	125
Approx. Wt., Lbs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Face, In.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Horn, In.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hardie Hole, In.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pritchel Hole, In.	½	[illegible]	½	⅝	⅝
Per Pound	$0 44	41	40	40	40

Nos.	150	175	200	250	✢300
Approx. Wt., Lbs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Face, In.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Horn, In.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hardie Hole, In.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pritchel Hole, In.	⅝	⅝	⅝	¾	[illegible]
Per Pound	$0 40	40	40	40	.40

Nos.	✢350	✢400	✢450	✢500	✢600
Approx. Wt., Lbs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Face, In.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Horn, In.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hardie Hole, In.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pritchel Hole, In.	⅝	⅝	⅝	¾	¾
Per Pound	$0 40	.40	.42	42	42

Nos.	✢700	✢800
Approx. Wt., Lbs.	[illegible]	[illegible]
Face, In.	[illegible]	[illegible]
Horn, In.	[illegible]	[illegible]
Hardie Hole, In.	[illegible]	[illegible]
Pritchel Hole, In.	[illegible]	[illegible]
Per Pound	$0 46	46

Wrapped in Burlap

ANVILS

* BLACK PRINCE

Clip Horn — Plain Horn

HORSE SHOERS OR FARRIERS

Clip Horn

Nos.	✢C100	✢C125	✢C150	✢C175	✢C200
Approx. Wt., lbs.	100	125	150	175	200
Face, In.	3½x14½	3⅝x16	3¾x16½	4x17	4½x18
Horn, In.	10	11	12	13	13½
Hardie Hole, In.	¾	⅞	⅞	1	1⅛
Pritchel Hole, In.	⅝	⅝	⅝	⅝	¾
Per Pound	$0 44	.44	.44	.44	.44

Plain Horn

Nos.	✢P100	✢P125	✢P150	✢P175	✢P200
Approx. Wt., Lbs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Face, In.	3½x14½	3⅝x16	3¾x16½	4x17	4½x18
Horn, In.	10	11	12	13	13½
Hardie Hole, In.	⅝	⅞	⅞	1	1⅛
Pritchel Hole, In.	⅝	⅝	⅝	⅝	¾
Per Pound	$0 41	.41	.41	.41	.41

Wrapped in Burlap.

STANDARD BLACKSMITH

Steel Faced

Solid Tool Steel, Tempered and Polished Face, Welded to Solid Cast Iron Japanned Base; Top and End of Horn Made of Toughened [illegible]

A Good, Cheap Anvil for Use of Farmers [illegible]

Nos.	2	3	4	5
Weight	200	250	300	350
Size of Face, In.	2[illegible]	2¾x14	3x15	3x16
Horn, In.	[illegible]	11	12	13
Height, In.	[illegible]	6½	7	7½
Hardie Hole, In.	[illegible]	1	1	1
Each	$9 00	10 80	12 60	14 40
	9 60	10 80	12 60	14 40

Nos.	6	7	8	9
Weight, Lbs.	60	70	80	90
Size Face, In.	3¼x10⅜	3¼x11	3¼x11½	[illegible]
Horn, In.	[illegible]	7½	7¾	[illegible]
Height, In.	[illegible]	8⅝	9¼	[illegible]
H'dle Hole, In.	[illegible]	¾	¾	[illegible]
Each	$6 00	7 25	[illegible]	[illegible]
	15 60	17 40	19 20	21 60

Nos.	10	✢11	✢12	✢13
Weight, Lbs.	100	110	120	130
Size of Face, In.	[illegible]	[illegible]	[illegible]	[illegible]
Horn, In.	[illegible]	7½	7¾	[illegible]
Height, In.	[illegible]	10⅝	10¼	10¼
Hardie Hole, In.	[illegible]	[illegible]	1	[illegible]
Each	$[illegible] 60	[illegible] 00	12 00	13 0[illegible]
	24.00	26 40	28.80	31.20

[illegible] Burlap

Items Marked ✢ not Carried in Stock; Can only be Furnished by Shipping Direct from Factory.

The "Standard" Watchman's Portable Clock

Closed Case

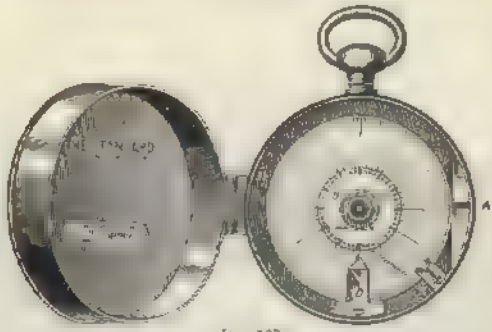


Fig. 127

6 or 9-station clock, size 4½ inches diameter, and 2½ inches thick, weight, 2 pounds
12, 16, 20 and 24-station clock, size 5½ inches diameter, 3½ inches thick, weight, 2½ pounds
36, 40, 48 and 60-station clock, size 5¾ inches diameter, 3½ inches thick, weight, 4½ pounds

The Clock

The "Standard" is the most perfect, best finished and substantial, yet cheapest portable watchman's clock on the market.

The case is of brass or aluminum, fitted with a safety lock

The movement is [illegible] 15 ruby jewels with [illegible] It is also handsomely dustproof, being covered with a heavy brass cap [illegible] glass watch [illegible] will run over two 2 days with one winding. The [illegible] is supplied [illegible] watchmaker can [illegible]

With Brass Cap Over Glass for Protection

Fig. 1274

Prices

6 different keys with boxes, all complete for 6 stations	each	$ 45	00
9 different keys with boxes, all complete for 9 stations	each	47	50
12 different keys with boxes, all complete for 12 stations	each	50	00
16 different keys with boxes, all complete for 16 stations	each	55	00
24 different keys with boxes, all complete for 24 stations	each	60	00
36 different keys with boxes, all complete for 36 stations	each	75	00
40 different keys with boxes, all complete for 40 stations	each	87	00
60 different keys with boxes, all complete for 60 stations	each	100	00

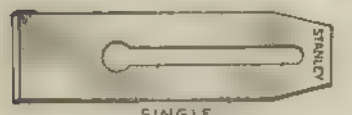
These prices include each clock, one watch [illegible] box and 100 record ring labels

The open face clock [illegible] as well as registering dial, costs $5 00 [illegible] to the above prices

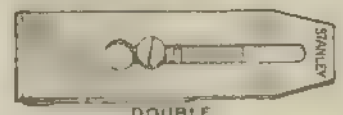
PLANE PARTS

In Ordering, Always Give Kind and Number of Plane for Which Part is Wanted, as Well as the Figure Number of the Part Wanted. Ten Cents will be the Minimum Charge for Any Part Sent by Mail.

NOTE—Prices Given on this Page are Manufacturers Lists. Quotations Upon Request

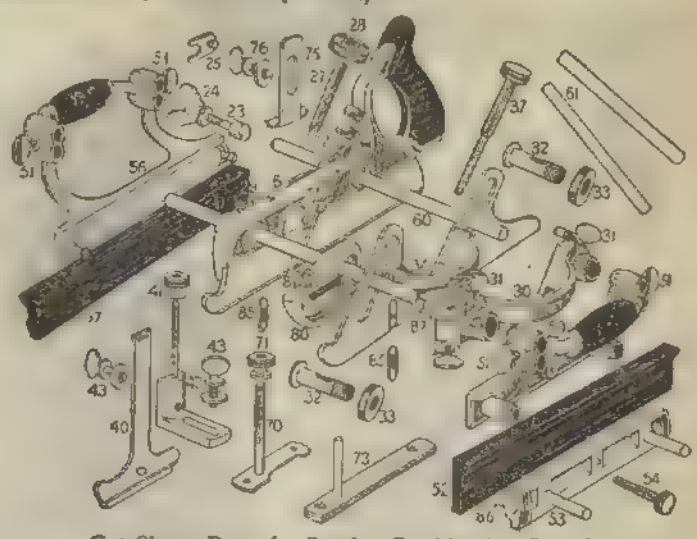


SINGLE



DOUBLE

Cut Shows Parts for Stanley Bed Rock Planes



Cut Shows Parts for Stanley Combination Planes

PARTS FOR STANLEY BED ROCK PLANES

Nos.	Name of Part	Planes 602,602C	Planes 603,603C	Planes 604,604C	Planes 604½,604½C	Planes 605,605C	Planes 605½,605½C	Planes 606,606C	Planes 607,607C	Planes 608	Planes 608C
1A	Double Plane Iron	$0 35	$0.38	$0.42	$0.48	$0.13	$0 1.	$0 18	$0 18	$0 50	$0 50
1	Single Plane Iron	21	23	25	.29	25	.28	.2.	.2.	32	32
2	Plane Iron Cap	✝ .14	✝ .15	.17	✝ .19	✝ .17	✝ .19	✝ .19	✝ .19	✝ 18	✝ 18
3	Cap Screw	✝ .05	✝ .05	.05	✝ .05	✝ .05	✝ .05	✝ .05	✝ .05	✝ 05	✝ 05
4	Lever Cap	✝ .30	✝ .30	.30	✝ .30	✝ .30	✝ .30	✝ .30	✝ .30	✝ 30	✝ 30
5	Lever Cap Screw	✝ .05	✝ .05	.05	✝ .05	✝ .05	✝ .05	✝ .05	✝ .05	✝ 05	✝ 05
6	Frog Complete	✝ .50	✝ .50	.50	✝ 50	✝ .50	✝ .50	✝ .50	✝ .50	✝ 50	✝ 50
7	"V" Adjusting Lever	✝ 07	✝ 05	05	✝ 15	✝ 05	✝ 05	✝ 05	✝ .05	✝ 05	✝ 05
8	Adjusting Nut	✝ .10	✝ .10	.10	✝ .10	✝ .10	✝ .10	✝ .10	✝ .10	✝ 10	✝ 10
9	Lateral Adj. Lever	✝ .10	✝ .10	.10	✝ .10	✝ .10	✝ .10	✝ .10	✝ .10	✝ 10	✝ 10
11	Plane Handle	✝ .20	✝ .20	.20	✝ .20	✝ .20	✝ .20	✝ .20	✝ .20	✝ 20	✝ 20
12	Plane Knob	✝ 15	✝ 15	15	✝	✝	✝ 15	✝ 15	✝ 1.	✝ 15	✝ 15
13	Lever Bar & Nut	✝ 10	✝ 10	10	✝ 10	✝	✝ 10	✝ 10	✝ .1.	✝ .10	✝ 10
14	Knob Bolt & Nut	✝ .10	✝ .10	.10	✝ .10	✝ .10	✝ .10	✝ .10	✝ .10	✝ .10	✝ 10
15	Plane Handle Screw	....	....	....	✝ .05	✝ .05	✝ .05	✝ .05	✝ .05	✝ .05	✝ 05
16	Plane Bottom	✝ 1.10	✝ 1.25	✝ 1.25	✝ 1 50	✝ 1.50	✝ 1.60	✝ 2.20	✝ 3.10	✝ 3 50	✝ 3 50
44	Frog Pin	✝ .10	✝ .10	✝ .10	✝ .10	✝ .10	✝ .10	✝ .10	✝ .10	✝ .10	✝ 10
45	Frog Clamping Screw	✝ 07	✝	✝	✝ 05	✝	✝	✝	✝ .05	✝ 05	✝ 05
46	Frog Adjusting Screw	✝ 05	✝ .05	✝ .05	✝ .05	✝ .05	✝ .05	✝ .05	✝ .05	✝ .05	✝ 05

PARTS FOR STANLEY COMBINATION PLANES

Nos.	Name of Part		Planes 45	Planes 46	Planes 47	Planes 50	Planes 55	Planes 141 143	Planes 444
1	[illegible]	[illegible]	✝$1 .0	✝ .0	✝$1 .0	✝$1 .5	✝$1 .00	✝$2 00	✝$3 .25
16	Main Stock or Bottom	Each	✝ 2.50	✝ 2 50	✝ 2 50	✝ 1 25	✝ 3 00	✝ 3 00	✝ 2 50
23	Cutter Bolt	"	✝ .15	✝ .15	✝ 15	✝ .15	✝ 1		..
24	Cutter Bolt Wing Nut	"	✝ .15	✝ 15	✝ 15	✝ 15	✝ 15		..
25	Cutter Bolt Clip and Screws	"	✝ .05	✝ .05	✝ .05	....	✝ 0		
27	Cutter Bolt Adjusting Screws	"	✝ .10	....	....	....	✝ 1		
28	Cutter Bolt Adjusting Wheel	"	✝ .10	....	....	....	✝ .1		..
30	Sliding Section	"	✝ 1.50	✝ 1.50	✝ 1.50	✝ .30	✝		
32	Thimble	"	....	....	....	....	✝ 1		
33	Thimble Check Nut	"	....	....	....	....	✝ 1		
34	Adjustable Bottom	"	....	....	....	....	✝ 1 ..		
37	Adjustable Bottom Screw	"	....	....	....	....	✝		
40	Auxiliary Center Bottom	"	....	....	....	....	✝ 0		
42	Angle Iron and Adjusting Screws	"	....	....	....	....	✝		
50	Left Fence	"	✝ .75	✝ .75	....	✝ .75	✝ 1	✝ 1 00	✝ 1 00
52	Tilting Guard Plate (Wood)	"	....	....	....	....	✝ .50		
53	Tilting Iron with Swivel	"	....	....	....	....	✝ 1		
54	Left Fence Adjusting Screw	"	....	....	....	....	✝ .50		
56	Right Fence	"	....	....	....	....	✝ 0		✝ 1 25
57	Right Fence Tilting Plate	"	....	....	....	....	✝ .20		
60	Long Arms	Per Pair	✝ .50	✝ .50	✝ 50	✝ .50	✝ 0	✝ .50	
61	Short Arms	"	✝ 25	✝ .25	✝ 25		✝		✝ 25
70	Adjustable Depth Gauge	Each	✝ 20	✝ .20	✝ 20	✝ 20	✝ .50	✝ 20	
73	Adjustable Beading Stop	"	✝ .20	....	....	....	✝ 0		
75	Slitting Cutter Stop	"	✝ .10	✝ .10	✝ .10	✝ .10	✝ 10		
80	Cam Stop	"	✝ .40	....	....		✝ 0		
85	Spur with Screws	"	✝	✝ .0	✝ .0	✝	✝ 0		✝ 05

Screws Nos. 29, 31, 41, 43, 51, 58, 71, 76, 81 and 93. 1 0
S 0

Items Marked ✝ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, New Britain Conn.

PLANE PARTS

In Ordering, Always Give Kind and Number of Plane for Which Part is Wanted, as Well as the Figure Number of the Part Wanted. Ten Cents will be the Minimum Charge for Any Part Sent by Mail.

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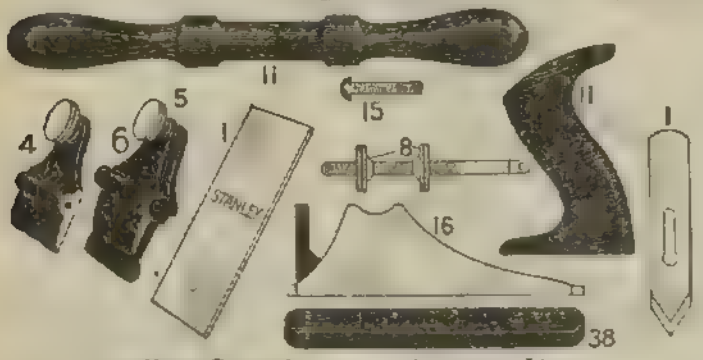
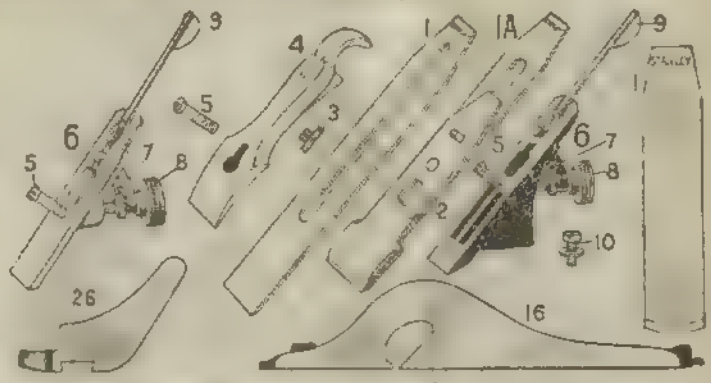
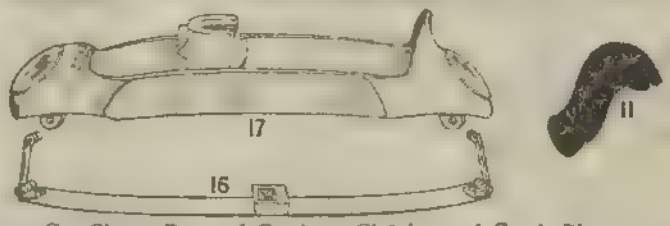


Cut Shows Parts of Scraper and Chamfer Planes



Cut Shows Parts of Rabbet and Router Planes.



Cut Shows Parts of Carriage, Circular and Scrub Planes.

PARTS FOR STANLEY SCRAPER AND CHAMFER PLANES

No.	Name of Part	Planes 12, 12½	Planes 12¼	Planes 113	Planes 213	Planes 85	Planes 87	Planes 56	Planes 57	Planes 72	Planes 72½
1	Single Plane Iron	✣$0 44	✣$0 44	✣$0 44	✣$0 44	✣$0 44	✣$0 44	✣$0 [illegible]	✣$0 [illegible]	✣$ [illegible]	✣$ [illegible]
4	Lever Cap	✣ .25	✣ .25	✣ .20	✣ 10	✣ .20	✣ .20	✣ [illegible]	✣ [illegible]	✣ [illegible]	✣ [illegible]
5	Lever Cap Screw	....	....	....	....	....	....	✣ [illegible]	✣ [illegible]	✣ [illegible]	✣ [illegible]
6	Frog Complete	✣ .60	✣ .50	✣ [illegible]	✣ 10	✣ [illegible]	✣ 30				
8	Adjusting Nut	✣ .10	✣ .10	✣ .10	..						
10	Frog Screw	....	....	....	.	✣ 05	✣ 05				
11	Plane Handle	✣ .50	✣ .50	✣ .20		✣ [illegible]	✣ [illegible]	✣ .20	✣ [illegible]	✣ [illegible]	✣ [illegible]
12	Plane Knob	....	....	✣ .15	✣ .20	✣ 20	✣ 20		✣ [illegible]	✣ [illegible]	✣ [illegible]
13	Handle Bolt & Nut	....	....	✣ [illegible]	.	✣ [illegible]	✣ [illegible]		✣ [illegible]	✣ [illegible]	✣ [illegible]
14	Knob Bolt & Nut	....	....	✣ .10	✣ .10	✣ [illegible]	✣ [illegible]		✣ [illegible]	✣ [illegible]	✣ [illegible]
15	Plane Handle Screw	✣ .05	✣ .05	....	....	....	....				
16	Plane Bottom	✣ 1 20	✣ .80	✣ 1 20	✣ .60	✣ 1.00	✣ .80	✣ 1 [illegible]	✣ 2 [illegible]	✣ 1 50	✣ 1 50
38	Extra Wood Bottom	✣ [illegible]									

PARTS FOR STANLEY RABBET AND ROUTER PLANES

No.	Name of Part	Planes 90 92	Planes 93	Planes 94	Planes 196	Planes 98	Planes 99	Planes 71	Planes 71½	Planes 75	Planes 95
1	Single Plane Iron	✣$0 [illegible]	✣$0 [illegible]	✣$0 30	✣$0 25	✣$0 [illegible]	✣$0 20	✣$0 [illegible]	✣$0 [illegible]	✣$0 [illegible]	✣$0 [illegible]
4	Lever Cap	✣ .15	✣ .15	✣ .15	✣ .10	✣ .10	✣ .10	....	....	✣ .10	✣ 10
12	Plane Knob	....	....	....	....	✣ .15	✣ .15	✣ .15	✣ .15	....	.
14	Knob, Bolt & Nut	....	....	....	....	....	....	✣ .10	✣ .10	....	.
16	Plane Bottom	✣ 1.75	✣ 2.10	✣ 2 50	✣ 1.20	✣ .60	✣ .60	✣ 1.00	✣ 1.00	✣ .30	✣ .80
27	Cutter Bolt Adj. Screw	✣ .20	✣ .20	✣ .20	....	....	....	....	....		
47	Extra Attachment						.	✣ [illegible]			
48	Collar	....	....	....	....	....	....	✣ .25	✣ .25	....	

PARTS FOR STANLEY CARRIAGE, CIRCULAR AND SCRUB PLANES

No.	Name of Part	Planes 10,10C	Planes 10¼	Planes 10½, 10½C	Planes 11, 11½	Planes 113	Planes 20,20½	Planes 40	Planes 10½	Planes 51	Planes 71
1A	Double Plane Iron	✣$0 [illegible]	✣$0 [illegible]	✣$ [illegible]	✣$0 [illegible]	✣$ [illegible]	✣$0 [illegible]			✣$0 [illegible]	✣$ [illegible]
1	Single Plane Iron	✣ .27	✣ .27	✣ .27	✣ .20	✣ .23	✣ .23	✣ .20	✣ .25	✣ .20	✣ .30
2	Plane Iron Cap	✣ .18	✣ .18	✣ .18	✣ 19	✣ .15	✣ .15	....	....	✣ 19	✣ [illegible]
3	Cap Screw	✣ .05	✣ .05	✣ 05	✣ .05	✣ 05	✣ .05	....	....	✣ 05	✣ [illegible]
4	Lever Cap	✣ 25	✣ .25	✣ 25	✣ .25	✣ 25	✣ .25	✣ .10	✣ .10	✣ 25	✣ [illegible]
5	Lever Cap Screw	✣ 05	✣ 05	✣ 05	✣ 05	✣ 05	✣ .05	✣ .05	✣ .05	✣ 05	✣ 10
6	Frog Complete	✣ [illegible]	✣ [illegible]	✣ [illegible]	✣ [illegible]	✣ [illegible]	✣ [illegible]			✣ [illegible]	
7	"Y" Adjusting Lever	✣ .05	✣ .05	✣ .05	✣ .05	✣ 05	✣ .05	....	....	✣ [illegible]	
8	Adjusting Nut	✣ .10	✣ .10	✣ 10	✣ .10	✣ .10	✣ .10	....	....	✣ 10	
9	Lateral Adj. Lever	✣ .10	✣ .10	✣ .10	..	✣ .10	✣ .10	....	....	✣ 10	
10	Frog Screw	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	✣ .05	....	....	✣ 05	
11	Plane Handle	✣ .20	✣ .40	✣ 20	✣ .80	....	....	✣ .10	✣ .10	✣ 20	✣ 1 00
12	Plane Knob	✣ [illegible]	✣ [illegible]	✣ 15			.	✣ 10	✣ [illegible]	✣ 15	
13	Handle Bolt & Nut	✣ .10	✣ .10	✣ .10	...	....	....	✣ .10	✣ .10	✣ 10	
14	Knob Bolt & Nut	✣ .10	✣ .10	✣ .10	...	...	....	✣ .10	✣ .10	✣ [illegible]	
16	Plane Bottom	✣ 1.65	✣ 1.50	✣ 1.50	✣ 1.30	✣ 60	✣ .60	✣ .70	✣ 1.00	✣ .00	✣ 2 20
17	Top Casting	....	....	....	....	✣ 1.00	✣ 1.50	..			
26	Frog Seat	....	....	....	...	..	✣ 50	.			.
35	Bottom Adj. Screw	....	....	....	....	✣ .50	✣ [illegible]	..			
36	Bottom Adj. Nut	....	....	....	...	..	✣ [illegible]				

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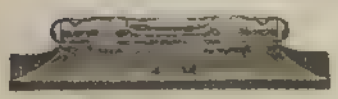
MACHINISTS IRON LEVELS



No. 34

No. 34V

STANLEY ECLIPSE

Full Nickel Plated; Cast Iron Base; Steel Case; Ground Glass Fitted in Metal Case; an Outer Shell Fitted Over the Case, Can be Turned so as to Completely Protect the Glass, when not in Use; the Case is Screwed to Base and Machined to Fit Accurately; the Level May be Adjusted by Means of the Screws.

No. 34—FLAT BOTTOM

Length, Inches	6	8
Weight Each, lbs.	¾	1¼
Per Dozen	$24 00	31 50

One in a Box

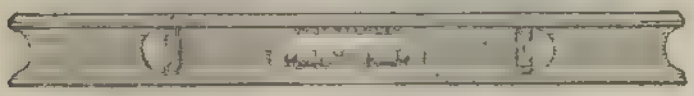
No. 34V—V BOTTOM

For Leveling Shafting, Pipe, etc. Used Also on Flat Surfaces.

Length, In.	4	6	8	10
Weight Each, lbs.	⅜	¾	1¼	1¾
Per Dozen	$18.70	24 00	31 50	35.50

One in a Box

ALUMINUM PLUMBS AND LEVELS



STANLEY

These Levels have tops and bottoms milled and wet ground to insure two perfectly parallel surfaces, and the Level Glasses are located between [illegible]. This is a distinct advantage, as the Level can be used [illegible] by placing the bottom on the work in the ordinary way, or the [illegible] for the work as required in leveling ceiling beams, girders, etc.

The Glasses are what are known as "proved" and are set in metal cases which rest at each end on a support cast in the frame of the Level. The cases are held on the supports by means of eccentric cone center at each end, having screw adjustment.

Both the Plumb and Level Glasses are completely protected. This protection feature consists of a metal shell or cover, which can be turned so as to entirely cover the glass when the Level is not in use.

On account of their light weight, great strength, and the fact that they will not rust or warp, they are especially adapted for carpenters use.

Aluminum Frame; Nickel Plated Trimmings; Flat Top and Bottom; Two Plumb and One Level Glass; Proved Glasses.

No. 237

Length, In.	12	18	24
Weight Each, lbs.	1	1¼	1¾
Per Dozen	$65 80	77 00	89 00

One in a Box

J. SAND & SONS

Cast Aluminum Frame, Accurately Milled Top and Bottom, insuring Two Perfectly Parallel Surfaces; Double Glass Construction allows [illegible] Plumb or Level Glass is always in position for use, Spirit Glasses Wood at Center of Working Face so Bubble can be quickly centered; All Spirit Glasses covered by heavy Plate Glass Windows which keep out Dust and Dirt and Make them Waterproof.

Per Dozen

No. A18—Length 18 in.; 2 5-16 inches wide; 1⅛ inches thick; Two Plumb and Two Level Glasses; Weight each 2¾ lbs. ... **$88 00**

No. A24—Length 24 in.; 2¾ inches wide; 1⅛ inches thick; Two Plumb and Two Level Glasses; Weight each 2¾ lbs. **99 00**

No. A28—Length 28 in.; 3 in. wide; 1⅜ in. thick; Four Plumb and Two Level Glasses; The duplicate Plumb Glasses, one at the top and one at the bottom, both reading the same way, add [illegible] one; for low work, upper Plumb Glass is read and [illegible] Weight, each, 3 lbs. **112 00**

One in a Box

MASONS PLUMBS AND LEVELS

★DIAMOND EDGE ADJUSTABLE

These Levels have adjustable Vials and can be changed to any Grade desired; It is this feature which makes it so Popular with Farmers, who have Tileing to put in, as they can get their Levels and Grades for Drainage with this Level and as accurately as with the most costly outfit. Also indispensable to Brick Masons and Concrete Workers. No danger of it being put out of Adjustment by a Jar or from a Fall off a building.

Per Dozen

No. DE6 Ring Vial; One Piece Spruce Stock; Highly Finished with Bright Carmine Paint; Two Spirit Plumbs and One Spirit Level; Size of Stock 48x1⅛x3½ inches; Weight Each 5 lbs.; Weight per Dozen 60 lbs. **$36.00**

One in a Box

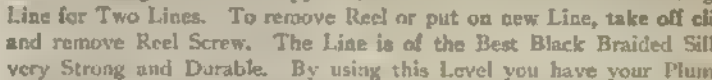
The Plumb Bob and the Line are enclosed within the Stock in such a manner as to allow the Line and Bob to swing freely and the Line can be read at Three Convenient Points.

The opening for the Bob is nicely enclosed with Heavy Transparent Celluloid Plates. The Line is adjusted by a Reel that it is attached to, the Reel being let into the upper end of Stock. The Reel carries enough Line for Two Lines. To remove Reel or put on new Line, take off clip and remove Reel Screw. The Line is of the Best Black Braided Silk, very Strong and Durable. By using this Level you have your Plumb Rule always at Hand. Plumb Line and Level and all are always Ready for Service no matter from what direction or how hard the wind blows.

Per Dozen

No. DE7 Same as No. DE6, except fitted with Brass Plummet and Line and Line Safety Reel. Size of Stock 48x1⅛x3½ inches; Weight Each 5½ lbs.; Weight per Dozen 63 lbs. **$52 00**

One in a Box



Per Dozen

No. DE8 Ring Vial, One Piece Selected Spruce Stock; Highly Finished with Bright Carmine Paint; Two Plummet Views; Adapted for use of Plummet at either end, Two Spirit Plumbs and One Spirit Level; Size of Stock 48x1¾x3½ inches, Weight Each 4 lbs.; Weight per Dozen 48 lbs. **$40 00**

One in a Box

★DIAMOND EDGE—STEEL STOCK

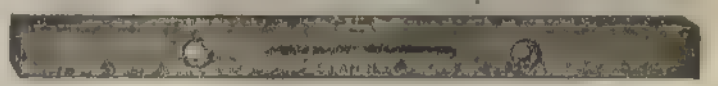
No. DEX400—MASONS INCLINOMETER

Six Vial; Two Ring Adjustable

Four Plumb Vials; Two Level Vials with Adjustable Rings Graduated in Degrees and One inch Rise per Foot so that Measurements may be Determined when Necessary without Disturbing the Level Vial.

Lengths, Inches	36	42	48
Weight Each, lbs.	4	4½	5
Weight per Dozen, lbs.	48	54	60
Per Dozen	$54 00	59 00	66 00

One in a Box



STANLEY

Per Dozen

No. 8 42x2¾x1⅝ inches; Hardwood, Mahogany Finish, Brass Top Plate, Two Plumbs, Weight Each 6½ lbs.; Weight per Dozen 42 lbs. **$37 50**

Half Dozen in a Case

MASONS PLUMBS AND LEVELS

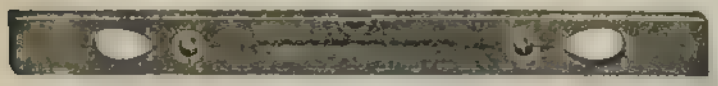
STANLEY

Soft Wood; One Non-adjustable Plumb and One Opening for use of Plumb Bob and Line; Adjustable Level Glass; Proved Glasses.

Per Dozen

No. 35—42x3⅝x1⅝ inches; Brass Top Plate; Polished Beveled Side and Plumb Views; One Plumb; Adapted for Use of Plumb Bob at One End; Weight Each 3½ lbs. $33 00

Half Dozen in a Box



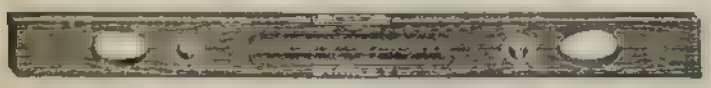
STANLEY

Soft Wood; Two Adjustable Plumbs and Two Openings for Use of Plumb Bob and Line; Adjustable Level Glass; All Proved Glasses.

Per Dozen

No. 45—48x1 1-16x1⅝ inches; Brass Lips; Brass Top Plate; Two Plumbs, adapted for use of Plumb Bob at either end; Weight each 3¾ lbs. $62 00

Half Dozen in a Box



STANLEY

Soft Wood; Double Handy Grooves; Two Adjustable Plumbs and Two Openings for use of Plumb Bob and Line; Adjustable Level Glass; All Proved Glasses.

Per Dozen

No. 45½—48x3¾x1 1-16 inches; Beveled Polished Side Views; Brass Top Plate; Brass Lipped Plumb Views; Two Plumbs; adapted for use of Plumb Bob at either end; Weight each 2⅜ lbs. $55.00

Half Dozen in a Box

J. SAND AND SONS

Selected Air-Dried White Pine; Reversible; Glasses Set Solid; Being of Double Construction, no matter how it is picked up, it is always in position for use, while the duplicate Plumb Glasses, one at the top and the other just below the center, both reading the same way add to its convenience. For low work, upper Plumb Glass is read and for overhead work the lower glass is in range.

Small Wire Bands are Imbedded in each Glass Marking Each End of Bubble Distinctly so that Accurate Reading can be Made at Considerable Distance and Even by Poor Light. A Great Aid to Mechanics with Poor Eyesight.

Per Dozen

No. 3A—Size 48x3x1⅝ inches; Four Plumbs; Two Levels; Five Side Views; Two Hand Holes; Weight 8 lbs. $59 50

Half Dozen in a Box

Per Dozen

No. 7—Full Brass Bound; Otherwise Same as No. 3A; Weight Each 4 lbs. $112.00

Half Dozen in a Box

STRAIGHT EDGES

**DIAMOND EDGE*

Stocks—Made of the Best Selected Seasoned Hardwood; Light Weight; Handy, Grooved Grip along the Two Sides, affording an easy Grip on the Tools; Handsomely Finished Bright Carmine Painted.

Vials—The Vials in this Straight Edge are provided with a new Adjustment. They can easily be placed in any position and securely fastened by the Two Small Screws which connect with a Steel Nut that is fastened to the stock beneath the Vial Ring and a slight pressure with a Small Screw Driver releases or fastens the Vial ring. It is Metal to Metal and is entirely reliable. Each Glass in both Plumb and Level is Set in Plaster and Enclosed in a Metal Case and held in place at Each End by an Adjusting Screw. A very delicate Adjustment is thus obtained. The Glasses in all *DIAMOND EDGE* Straight Edges are Tested and Marked with Two Indelible Lines, between which the Bubble can be readily seen from above, either Side or when working Overhead.

All Brass End Clips and Vial Rings are of Extra Heavy Gauge, Handsomely Polished. Heavy Brass Adjusting Screws.

Per Dozen

No. DE5½—Ring Vial; One Piece Stock; Brass Ends; Bright Carmine Painted; Two Spirit Plumbs and One Spirit Level; Length 5½ feet; Width at Center 5⅜ inches; Width at ends 3¼ inches; 1⅝ inches Thick; Weight per Dozen 52 lbs. $60.00

Loose

FARM LEVELS

BOSTROM

Meets every requirement for all kinds of Drainage work, including Tile or Under Drainage, also Open Drains or Ditches, all kinds of Irrigating work, including Canals and Latterals; Terracing Land, Road Building, House Foundation work, Grading of all kinds, Setting out Orchards, Running Fences, Getting Angles and every sort of Farm work requiring a Level.

The Telescope is "Achromatic," giving a clear field, and was designed especially for this instrument; and gives the operator a longer range and clearer sight. You can read the cross on the Target at a distance of about one-fourth of a mile, in any direction, thus being enabled to cover a scope of one-half mile, as the Turret carrying the Telescope revolves.

The line of sight is arrived at by cross hair lines set in the system of the magnifying glasses in the Telescope, and which cannot be dislodged or destroyed except by smashing the instrument. The Turret carrying the telescope and bubble revolves so that the telescope may be pointed in any direction desired, without the necessity of readjusting the level.

The Target rod and target is composed of a telescopic or sliding target rod, with thumb screw for securing in any position and is graduated to feet, inches and one-fourth of an inch, telescoping to five feet when closed, and to nine and one-half feet when extended, the target is sliding and of the usual form.

A Plumb Bob is included which adapts the Lever to the use of Architects, Contractors and Builders.

THE TRIPOD—This is composed of three wooden legs and Head receiving the Adjusting Head, which supports the Face Plate.

The Adjusting Head is screwed on to the Tripod and carries Three adjusting screws for the adjustment of Face Plate and Level to a perfectly horizontal position. The Face Plate is attached to the Adjusting Head by a screw and strong spring which presses the Face Plate firmly against the ends of the THREE adjusting screws, and at the same time insures a flexible joint, so that the Face Plate can adjust itself to any position. For the purpose of obtaining any angle desired, this Face Plate has a graduated circle, divided into 360 degrees, numbered from zero to 90 degrees in both directions, giving zero points on opposite sides of the circle.

Each

No. F—Farm Level Complete with Level, Telescope, Target and a Plumb Bob, all packed in a Neat Wood box; Tripod and Sliding Target Rod Wrapped; Weight 11 lbs. $28 80

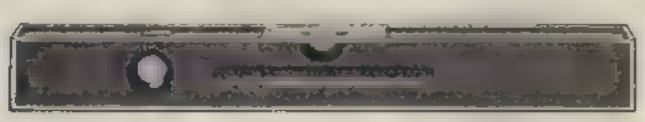
One in a Box

STANLEY'S PLUMBS AND LEVELS

Made from 1⅝x3⅛ in. mahogany, brass bound, adjustable, brass tips, brass lip, side views, ground glasses, handy grip.

No. 26—Length, inches	26	28	30
Per dozen	$70.00	70.00	70.00

Twelfth Dozen in a Box



Made from 1⅝x3⅛ in. mahogany, brass bound, adjustable, brass tips, polished side views, proved glasses, handy grip

No. 33—Length, inches	26	28	30
Per dozen	$55.00	55.00	55.00

Twelfth Dozen in a Box

Made from mahogany, 1⅛x2⅛ in. stock, brass bound, adjustable, brass tips, polished side views, proved glasses, handy grip

No. 1193—Length, inches	18	24	28
Per dozen	$43.00	50.00	55.00

Twelfth Dozen in a Carton

Made from 1⅝x3⅛ in. triple stock, cherry, adjustable, square top plate, brass lips, brass tips, proved glasses, handy grip.

No. 15—Length, inches	26	28	30
Per dozen	$24.24	24.24	24.24

Twelfth Dozen in a Box

Made of 1⅝x3⅛ in. triple stock cherry, adjustable, brass tips, brass lip, side views, proved glasses, handy grip.

No. 5—Length, inches	24	26	28	30
Per dozen	$26.00	26.00	26.00	26.00

No. 5A—Assorted, 24 to 30 inches.....Per dozen $26.00

Half Dozen in a Box

"Duplex," adjustable, solid cherry, brass tips. Have 3 glasses: a level glass set in the top the regular way, a plank glass, and a second level glass in the side; polished side views, proved glasses, handy grip

No. 30—Length, inches	24	26	28	30
Per dozen	$26.00	26.00	26.00	26.00

No. 30A—Assorted, 24 to 30 inches.....Per dozen $26.00

Half Dozen in a Box

Made of 1⅝x3⅛ in. solid cherry adjustable, brass tips, polished side views, proved glasses, handy grip

No. 3—Length, inches	24	26	28	30
Per dozen	$20.75	20.75	20.75	20.75

No. 3A—Assorted, 24 to 30 inches.....Per dozen $20.75

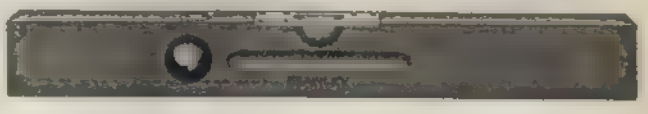
Half Dozen in a Box

Made of 1⅝x3⅛ in. solid cherry, adjustable, brass bps, polished side views, proved glasses, handy grip

No. 2—Length, inches	24	26	28	30
Per dozen	$19.50	19.50	19.50	19.50

No. 2A—Assorted, 24 to 30 inches.....Per dozen $19.50

Half Dozen in a Box



Made of 1⅝x3⅛ in. solid cherry, adjustable, polished side views, proved glasses, handy grip.

No. 1X—Length, inches	24	26	28	30
Per dozen	$17.00	17.00	17.00	17.00

No. 1XA—Assorted, 24 to 30 inches.....Per dozen $17.00

Half Dozen in a Box

Made of 1⅝x3⅛ in. solid cherry, non-adjustable, not bound, polished side views, proved glasses, handy grip

No. 0—Length, inches	24	26	28	30
Per dozen	$13.00	13.00	13.00	13.00

No. 0A—Assorted, 24 to 30 inches.....Per dozen $13.00

Half Dozen in a Box

Made of 1⅝x3⅛ in. solid cherry, non-adjustable, not bound, polished side views, proved glasses, handy grip.

No. 00—Length, inches	18	20	22	24
Per dozen	$12.00	12.00	12.00	12.00

No. 00A—Assorted, 18 to 24 inches.....Per dozen $12.00

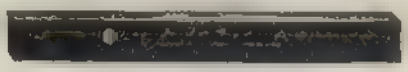
Half Dozen in a Box

Made of 1¼ x 2⅝ in. solid cherry, non-adjustable, brass tips, polished side views, proved glasses, handy grip.

No. 104½—Length, inches	12	14	16	18
Per dozen	$12.60	12.60	12.60	12.60

No. 104½A—Assorted, 12 to 18 inches.....Per dozen $12.60

One Dozen in a Box



Made of 1¼x2⅝ in. solid cherry, non-adjustable, polished side views, proved glasses, handy grip.

No. 104—Length, inches	12	14	16	18
Per dozen	$8.75	8.75	8.75	8.75

No. 104A—Assorted, 12 to 18 inches.....Per dozen $8.75

One Dozen in a Box

Made of 1¼x2⅝ in. solid cherry, non-adjustable, level only, polished side views, proved glasses, handy grip

No. 102—Length, inches	10	12	14	16
Per dozen	$6.00	6.00	6.00	6.00

No. 102A—Assorted, 10 to 16 inches.....Per dozen $6.00

One Dozen in a Box

MASON'S PLUMBS AND LEVELS

STANLEY

Made of 1 1/16x3¾ in. stained whitewood, with two adjustable plumbs, and two openings for plumb bobs and lines, proved glasses, handy grip

No. 45½—Length 48 inches . . . . . Per dozen $44 75

Half Dozen in a Box

Made of 1⅝x3⅝ in. stained whitewood, with one non-adjustable plumb and one opening for plumb bob and line, proved glasses, handy grip.

No. 36—Length 42 inches . . . . . Per dozen $25.00

Half Dozen in a Box

DISSTON'S

Made of 1x3¾ in. poplar, polished, two plumbs and levels, proved glasses, encased in brass tubing, with movable cover.

No. 100—Length 48 inches. . . . . Per dozen $33.65

Half Dozen in a Box

SANDS

Made of 1⅝x3½ stained white pine, with two plumbs and one top level, two side views, opening for plumb bob and line, hand hole and scribe. Weight each 3 lbs.

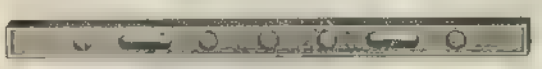
No. 18—Length 48 inches. . . . . Per dozen $42.00

Half Dozen in a Box

Made of 1⅝x3 stained white pine, with reversible plumbs and levels, double construction. For low work upper plumb glass is read, for overhead work, the lower glass is in range. Two hand holes. Weight each 3 lbs.

No. 3AS—Length 48 inches. . . . . Per dozen $54 00

Half Dozen in a Box



Fully brass bound. Otherwise same as No. 3AS.

No. 73—Length 48 inches. . . . . Per dozen $84 00

Half Dozen in a Box

ALUMINUM

Made of aluminum, cannot warp or split, are light, strong and durable. Spirit glasses are set solid, have a slight crown, a quick acting bubble and are accurate.

Mason's

No. 42S—Length 42 inches, width 3½ inches, weight each 4½ lbs . . . . . Per dozen $132.00

One Twelfth Dozen in a Box

Carpenter's

Nos.	18S	24S	30S
Length, inches	18	24	30
Width, inches	2¼	2¾	3
Weight, each, lbs.	1¾	2¼	3
Per dozen	$78.00	90.00	102 00

One-twelfth Dozen in a Box

NOTE—**Nos. 30S** and **42S** are of double construction, always in position for use, no matter which way they are picked up Double plumb glasses at top and bottom, both reading the same way. For low work the upper glass is read and for overhead work the lower glass is in range.

STANLEY'S METALLIC LEVELS

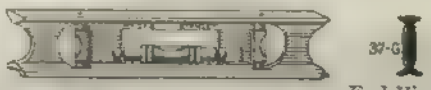
BENCH

End View

Japanned, nickel trimmed, tops and bottoms milled. Glasses are set so either surface may be used to level or plumb. Adjustable, proved glasses, grooved bottom.

No. 36G—Length, inches	6	9	12	18	24
Per dozen	$18.75	22.75	26.75	31.75	36.00

Twelfth Dozen in a Box



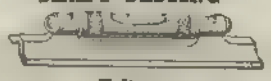
End View

Are of the same general design as No 36G, except have ground glasses, are full nickel plated and the glasses are protected.

No. 37G—Length, inches	6	9	12	18	24
Per dozen	$30.00	36.00	42 00	50.00	58 00

Twelfth Dozen in a Box

SHAFT TESTING



Eclipse

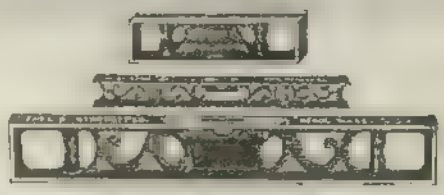
Glass fitted in a metal case, this case being enveloped by an outer case which can be turned to protect the glass, nickel plated, adjustable ground glass; V bottom for leveling shafting, etc.

No. 34V—Length, inches	4	6	8	10
Per dozen	$17.00	20.00	27.00	34.00

Twelfth Dozen in a Box

STARRETT'S METALLIC LEVELS

BENCH



Have concave groove on the bottom, adapting them to set on cylindrical work, piping, shafting, etc. Double plumbs sizes 4, 6, 9 in., built as in top cut, 12 in. as in middle cut, 18 and 24 in. as in bottom cut.

No. 182—Length, inches	4	6	9	12	18	24
Each	$1.35	1.50	1.65	1.75	2.00	2.25

One in a Box

ENGINEERS' AND PLUMBERS'

An adjustable incline level, a fixed level, and a plumb are all combined in this level. Has hinged tube inside the working faces of the frame carrying a level glass, which is adjustable to the graduated scale and shows any incline by 32ds to 2 inches to the foot. Has groove on bottom for use on shafting, pipe, etc.

With Plain Glasses

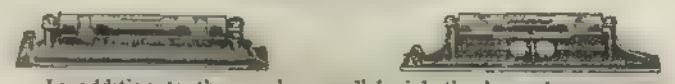
No. 133A—Length 10 inches . . . . . Each $2 75
No. 133B—Length 15 inches. . . . . Each 3 00

With Ground Glasses

No. 133C—Length 10 inches. . . . . Each $5 75
No. 133D—Length 15 inches. . . . . Each 6 00

One in a Box

SHAFT TESTING



In addition to the regular parallel vial, the bases have a cross level, which enables one to place or hold the base on a shaft level in its cross section. Has round groove on bottom for use on curved surfaces. The 12 in. size has single plumb, while the 18 in. has the double plumb.

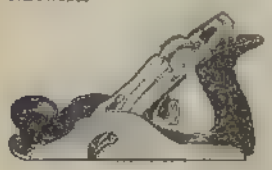
No. 97—Length, inches	6	8	12	18
Each	$1.75	2.00	2.50	3.50

One in a Box

RABBET PLANES

STANLEY CARRIAGE MAKERS

These Planes are especially adapted for the heavy framing required in mining work, for carriage or wagon building, or in any work of similar nature. They are constructed along the lines of the "Bailey" Plane, having a cutter of the double type and being adjustable both endwise and sidewise.



Length 9 inches; 2⅛ inch Cutter; Rosewood Handle and Knob; Weight 8 lbs

	Each
No. 10½—Flat Bottom	**$5 80**
No. 10½C—Corrugated Bottom	**5 80**

One in a Box.

Length 13 inches; 2⅛ inch Cutter, Rosewood Handle and Knob, Weight 9 lbs.

	Each
No. 10—Flat Bottom	**$7.10**
No. 10C—Corrugated Bottom	**7 10**

One in a Box.

TILTING HANDLE

This Plane not only has all the features of Nos. 10 and 10½, but in addition both the handle and knob can be tilted to either side. This permits of the Plane being worked well up close to perpendicular sides of any height without hurting the hands of the user. It is also fitted with spurs on both sides, so that it will rabbet across the grain equally as well as with it.

Length 13 inches; 2⅛ inch Cutter; Rosewood Handle and Knob; Weight 4¼ lbs.

	Each
No. 10¼ Flat Bottom	**$8 50**
No. 10¼C—Corrugated Bottom	**8 50**

One in a Box.

RABBET AND FILLETSTER PLANES

STANLEY SKEW CUTTER

This Plane has an extra wide skew cutter. An adjustable spur if fitted to each side. The fence and depth gauge are also adjustable; the plane is therefore suitable for right or left hand work. The Adjustable fence slides under the bottom, regulating the width of the cut. Remove arms and fence, and a Skew Cutter Rabbet Plane is obtained.

	Each
No. 239—Length 8½ inches; Handles; Cast Iron; Japanned; 1¾ inch Cutter; Weight 3¾ lbs	**$4.30**

One in a Box.

STANLEY DUPLEX

This Plane has two seats for the cutter, one for ordinary work and the other where bull nose is required. It has a spur and removable fence. The adjustable fence can be used either way and slides under the bottom, regulating the width of the cut. For work same as a rabbet plane remove fence and arms.

	Each
No. 78—Length 8½ inches, Handled; Cast Iron; Japanned; 1½ inch Cutter; Weight 3 lbs	**$3 80**

One in a Box.

STANLEY

The sides and bottom being square with each other, the plane will lie perfectly flat on either side.

It has an adjustable fence which slides under the bottom, regulating the width of the cut.

It is fitted with two spurs, one on each side, for working across the grain; also an adjustable depth gauge.

As both the fence and the depth gauge can be attached to either side, the plane is suitable for either right or left hand work.

The front part of the plane can be easily detached, thus providing a bull nose plane for working close up into corners or other difficult places.

The cutter is adjustable endwise.

	Each
No. 278—Cast Iron; Japanned Trimmings; Length 6¾ inches; 1 inch Cutter; Weight 2 lbs	**$3 60**

One in a Box.

RABBET PLANES

STANLEY

These Planes will lie perfectly flat on either side and can be used equally as well with right or left hand while planing into corners or up against perpendicular surfaces.

Length 8 inches; Handled; Cast Iron; Japanned; Fitted with a Spur which permits the Plane being used for working across the Grain also fitted with a detachable Depth Gauge.

Nos.	190	191	192
Cutter, inches	1⅝	1¼	1
Weight, lbs.	2½	2¼	2
Each	$2 90	2.90	2 90

One in a Box.

STANLEY

These Planes will lie perfectly flat on either side and can be used equally as well with right or left hand while planing into corners or up against perpendicular surfaces.

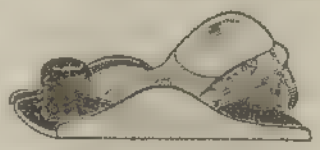
Length 8 inches; Handled; Cast Iron; Japanned; Without Spur but with a detachable Depth Gauge.

Nos.	180	181	182
Cutter, inches	1⅝	1¼	1
Weight, lbs.	2½	2¼	2
Each	$2.70	2.70	2.70

One in a Box.

RABBET AND BLOCK PLANES

STANLEY



Cast Iron, Japanned Trimmings; Rosewood Knob. A detachable side will convert it from a block plane to a rabbet plane, and vice-versa, a combination that will be appreciated by many. The cutter is adjustable endwise, and set on a skew.

	Each
No. 140—Length 7 inches; 1¾ inch Cutter; Weight 1⅛ lbs.	**$3 10**

One in a Box.

BULL NOSE RABBET PLANES

STANLEY

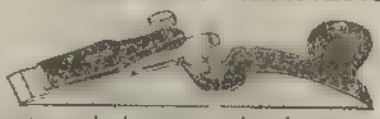
Cast Iron; Japanned Trimmings; This Plane will be found very useful for working close up into corners or other difficult places. The mouth can be adjusted for different widths by means of the set screw on top of the plane.

	Each
No. 75—Length 4 inches; 1 inch Cutter; Weight ⅝ lb.	**$0 90**

One in a Box.

CABINET MAKERS EDGE PLANES

STANLEY



For Piano Makers and all Cabinet Workers. It has a cutter resting on a solid bed practically its entire length. The cutter is adjustable endwise. Rosewood Knob.

	Each
No. 97—Length 10 in.; Cast Iron; Japanned; 2¼ in. Cutter; Wt. 3¾ lbs.	**$4.50**

One in a Box.

SIDE RABBET PLANES

STANLEY

These will be found to be very convenient for side-rabbeting in trimming dados, mouldings and grooves of all sorts. A reversible nose-piece gives the tool a double use, whereby it will work close up into corners when required.

	Each
No. 93—Right Hand; Length 4 inches; ¾ inch Cutter; Nickel Plated Cast Iron; Rosewood Knob; Weight ½ lb.	**$2 30**

One in a Box.

STANLEY

These will be found to be very convenient for side-rabbeting in trimming dados, mouldings and grooves of all sorts. A reversible nose-piece gives the tool a double use, whereby it will work close up into corners when required.

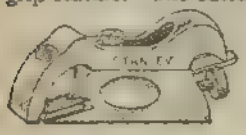
	Each
No. 99—Left Hand; Length 4 inches; ¾ inch Cutter, Nickel Plated Cast Iron; Rosewood Knob; Weight ½ lb.	**$2 30**

One in a Box.

CABINET MAKERS RABBET PLANES

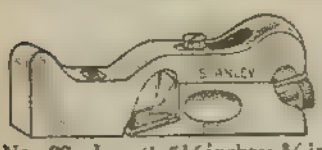
STANLEY

For fine cabinet or other work where extreme accuracy is required. The sides and bottom, being square with each other, the Planes will lie perfectly flat on either side, and can be worked either right or left hand. They have adjustable throats; this means that the width of the throat opening, or mouth, can be widened or narrowed as coarse or fine work may require. They are also fitted with the side groove or "Hand-y" grip feature. The cutters are adjustable endwise.



Built Nose Pattern; Nickel Plated Cast Iron.
This Plane is so designed that it can be used close up into corners or other difficult places. Each

No. 90—Length 4 inches; 1 inch Cutter; Weight 1 lb. **$4.50**
One in a Box.



Regular Pattern; Nickel Plated Cast Iron.

Each

No. 92—Length 5½ inches; ¾ inch Cutter; Weight 1½ lbs. **$4.50**
No. 93—Length 6½ inches; 1 inch Cutter; Weight 1¾ lbs. **5.30**
One in a Box

DADO PLANES

STANLEY

This Plane has an extra narrow cutter, only ⅛ of an inch wide, making it an ideal tool for blind wire grooving, as well as for many other purposes.

It is fitted with a double spur, which prevents splintering when working across the grain and insures a smooth, clean cut.

A depth gauge is also attached allowing a groove to be cut of any desired depth up to limit of the plane—½ of an inch. This Plane will be of special interest to electricians.

Each

No. 238—Cast Iron; Japanned Trimmings; Length 7½ inches; ⅛ inch Cutter; Weight 1 lb. **$4.90**
One in a Box.

STANLEY

The great advantage of these Dado Planes over those made of wood is that they will keep true under all conditions, even in the narrowest widths. They have skew cutters, an adjustable depth gauge, and two adjustable spurs, one on each side of the plane. This adjustable feature permits of the spurs being adjusted to take up wear, as well as for the depth of the cut.

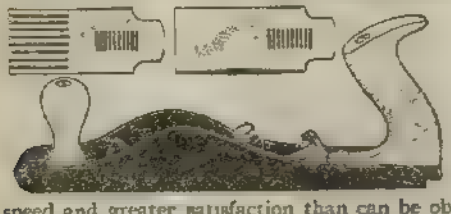
The plane is made in seven sizes from ¼ inch to 1 inch in width. In ordering always give the number (39) and width of cutter desired.

No. 39—Cast Iron; Japanned Trimmings; Length 8 inches.

Cutter, in.	1/4	3/8	1/2	5/8	3/4	7/8	1
Weight, lbs.	1¾	1¾	1¾	2	2	2¼	2¼
Each	$3.60	3.60	3.60	3.60	3.60	3.60	3.60

One in a Box.

BUTCHERS BLOCK PLANES



STANLEY

Designed especially for truing and facing Butchers Blocks

With its use blocks having the most uneven surfaces can be leveled up with more speed and greater satisfaction than can be obtained with the use of any other tool.

The work is accomplished with a specially formed cutter or plane iron set at an exceptionally low angle.

In addition to the special cutter mentioned, a regular Plane Iron is furnished which will enable the user to finish smooth the final surface of a Block, also for planing smooth and keeping in condition the Meat Benches and Tables ordinarily found in a butcher's Establishment.

Cast Iron, Japanned Finish; Hardwood Handle and Knob.

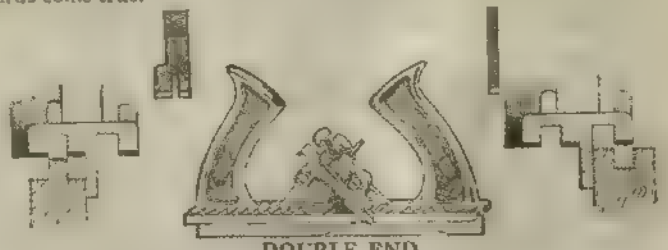
Each

No. 64—Length 12½ inches; 2 inch Cutter; Weight 4 lbs. **$5.40**
One in a Box.

MATCHING PLANES

STANLEY

These Planes cut a tongue on the edge of one board to fit a groove in the edge of another board, so that when put together the surfaces of the boards come true.



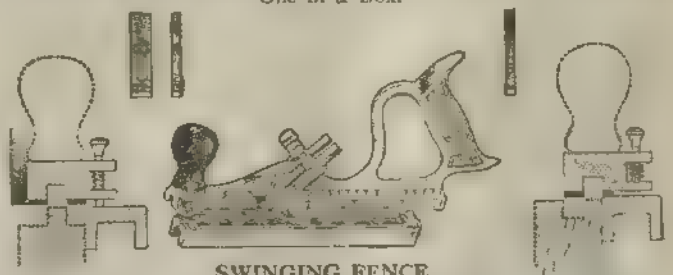
DOUBLE END

These Planes have two separate cutters, a plow, and a tongue tool both governed by one permanent fence. The tongue tool has one edge wider than the other, which overhangs one side when tonguing on center Both tongue and groove are cut by working the tool in the same direction by merely reversing it end for end.

Cast Iron; Nickel Plated; Handles Cast Solid with Body.

Each

No. 140—Cuts ⅛ Groove, on boards ⅜ in. to ½ in. Centers on ⅜ in. Weight 1½ lbs. **$4.50**
No. 147—Cuts 3/16 Groove, on boards ½ in. to ¾ in. Centers on ⅝ in. Weight 1⅝ lbs **4.50**
No. 148—Cuts ¼ Groove, on boards ¾ in. to 1 in. Centers on ⅞ in. Weight 2⅛ lbs. **4.50**
One in a Box.



SWINGING FENCE

This form has two plow cutters of the same width, and one extra wide cutter. The fence in one setting exposes two cutters for cutting the tongue, and, when reversed, leaves only one exposed for cutting the groove. On thicker boards than the plane works on center, the extra wide cutter is substituted for groove cutter when cutting tongue.

Cast Iron; Nickel Plated; Rosewood Knobs. Each

No. 48—Cuts 5/16 Groove, on boards ¾ in. to 1¼ in. Centers on ⅞ in. Weight 3¾ lbs. **$6.00**
One in a Box

EDGE TRIMMING PLANES

STANLEY

Designed especially for trimming or smoothing the ends of boards, such as sidings, etc., for a square or close fit. It has a right angle rest or guide from the cutter edge, and the cutter works on a skew giving an easy shaving cut. In the rest or guide are two screw holes to which wood blocks of various bevels may be attached enabling the user to make a slanting cut.

Each

No. 95—Length 6 inches; Japanned Cast Iron; ⅞ inch Cutter; Weight 1¼ lb. **$2.50**
One in a Box.

BELT MAKERS PLANES

STANLEY

A Plane designed for chamfering down the ends or laps of a belt before fastening them together It is very largely used by belt manufacturers, but it is also a valuable tool for all users of belting, enabling them to make repairs that otherwise would require that the belt be sent to the makers.

The Plane is fitted with an adjustable throat, by means of which a wide or narrow opening may be given to the mouth, or slot, for the cutter. Cutter is adjustable endwise by means of the screw shown at the back of the Plane.

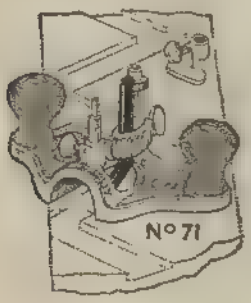
Each

No. 11—Cast Iron, Japanned; Hardwood Handle; Length 5¾ inches; 2⅛ inch Cutter; Weight 3½ lbs. **$5.00**
One In a Box.

ROUTER PLANES

STANLEY

These Planes are for surfacing the bottom of grooves or other epressions parallel with the general surface of the work.



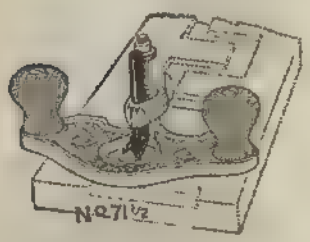
OPEN THROAT

An improved design giving more freedom for Chips and a better view of the work and cutter. Has an attachment for regulating the thickness of the Chip and a second attachment for closing the Throat for use on narrow surfaces. The bottom is designed so that an extra wooden bottom of any size desired can be screwed on, enabling the user to router on larger openings. Cutters have screw adjustment and can be held as shown in illustration or on the back of the cutter Post for **Bull-Nose** Work.

Each

No. 71—Nickel Plated Cast Iron; Rosewood Knobs; Length 7½ inches; Furnished with one each ¼ and ½ inch Cutters; Weight 2¾ lbs..... **$4 60**

One in a Box



CLOSED THROAT

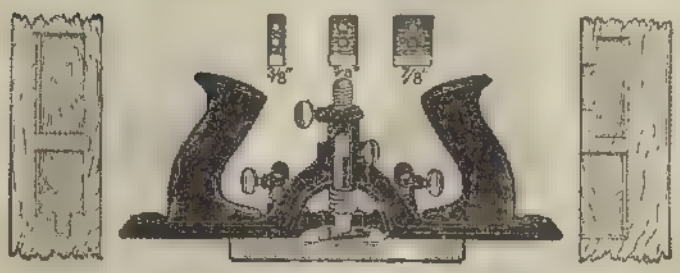
This is the ordinary form of Router Plane. The bottom is designed so that an extra wooden bottom of any size desired can be screwed on, enabling the user to router on larger openings. Cutters have screw adjustment and can be held as shown in illustration or on the back of the cutter post for **Bull-Nose** work.

Each

No. 71½—Nickel Plated Cast Iron; Rosewood Knobs; length 7½ inches; Furnished with one each ¼ and ½ inch Cutters, Weight 2¼ lbs..... **$3.60**

One in a Box.

DOOR TRIM PLANES



STANLEY

This new Plane will make mortises for butts, face plates, strike plates, escutcheons, etc., up to a depth of 5/16 and a width of 3 inches. Its original feature is the method of mounting the cutter, which can be instantly set to work from either end of the Plane or across it. In addition, the cutter is cushioned by a spring which prevents taking a heavier chip than can be easily carried. A fence regulates the position of the cut and insures the sides of the cut being parallel. The depth of the cut is governed by a positive stop.

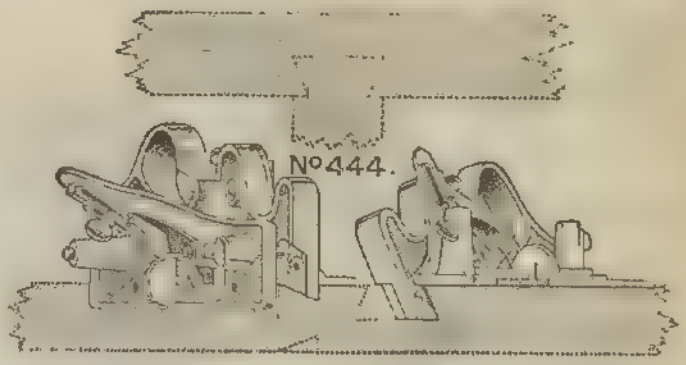
By removing the fence and locking the cutter post with the thumb screw instead of using the spring a very superior Router Plane is obtained. The bottom is designed so that an extra wooden bottom of any size desired can be screwed on, enabling the user to router on large openings.

Each

No. 171—Cast Iron, Japanned; Rosewood Handles; Length 11 inches; Furnished with three forged steel Cutters, ⅜, ⅝ and ⅞ inch wide; Weight 3 lbs..... **$6 80**

One in a Box.

DOVETAIL TONGUE AND GROOVE PLANES



STANLEY

It will cut any size grooves and tongues to fit with sides at flare of 20 degrees, where the width of the neck is more than one-quarter of an inch and the depth of groove not more than three-quarters of an inch. The tongue and groove are cut separately, and can be made with parallel or tapering sides. The operation of the Plane is simple. A circular containing instructions for assembling and operating is packed with each tool. All parts carefully machined and interchangeable.

Three Sizes of Cutters are furnished for forming Grooves; Smaller Size for ⅛ and ⅜ inch Boards; Medium Size for ¼ and ⅝ inch Boards; Large Size for 1 to 2 inch Boards. One Size Cutter will Cut any Size Tongue.

Each

No. 444—Nickel Plated Cast Iron; Length 9 inches; Weight 6 lbs..... **$13 70**

One in a Neat Wooden Box with Directions.

CORE BOX PLANES

STANLEY

Adapted for large core boxes, and is furnished with one pair of extra sides, or as they are called, Additional Sections. Without Sections it will work semi-circles from 1 inch up to 2½ inches in diameter. With one pair of Sections it will work semi-circles up to 5 inches in diameter. Additional Sections can be supplied, each extra pair adding 2½ inches to the diameter of the semi-circle that can be worked, up to 10 inches in diameter, the practical limits of the Plane.

Each

No. 57†—Nickel Plated Cast Iron; Beechwood Handle and Knob; Length 10 inches; ⅛ inch Cutter; Weight 6¾ lbs..... **$8 80**

One in a Box

Per Pair

†**Extra Sections** for No. 57 Plane; Weight per Pair 2 lbs..... **$3 00**

One Pair in a Box.

Items Marked † not carried in Stock; Can only be furnished by shipping direct from Factory New Britain, Conn.

VENEER SCRAPER PLANES

STANLEY

This is a small handy tool, designed to be used with one hand and well adapted for Violin Makers and all Mechanics requiring a light adjustable scraper. It has a rosewood Knob but no Handle. It also has the "Hand-y" feature on both sides.

Each

No. 212—Cast Iron, Japanned; Rosewood Knob; Length 5½ inches; 1⅝ inch Blade; Weight 1½ lbs..... **$3 50**
One in a Box.

STANLEY
Single Handle and Knob

The blades are adjustable endwise and for angle, and can be firmly locked in position desired. It can also be used as a Toothing Plane, doing excellent work in scraping off old paint or glue, and in roughing up the surface of wood preparatory to veneering same.

Each

No. 112—Cast Iron, Japanned; Rosewood Handle and Knob; Length 9 inches; 3 inch Blade; Weight 4 lbs **$5 00**
One in a Box.

Per Dozen

No. EPB—Extra Scraper Blades; For No. 112 Scrapers, also Nos. 0, 12 and 12½ Stanley Veneer Scrapers; Wt. 4 ozs..**$6 00** $2.40

No. ETB—Extra Toothed Blades; 22, 28 and 32 Teeth to an inch (Specify Number of Teeth); Weight 5 ozs..... **$8.80** 3.60
Loose.

STANLEY
Double Handle; Iron Face

The handles are of rosewood with a double grip, and, being placed across the center of the tool, give it a good balance. The blades are adjustable endwise and for angle, and can be firmly locked in position desired.

They can also be used as Toothing Planes, doing excellent work in scraping off old paint or glue, and in roughing up the surface of wood preparatory to veneering same.

Each

No. 12¼—Cast Iron, Japanned; Rosewood Handles; Length 6¼ inches; 2 inch Blade; Weight 2½ lbs. **$4.60**
No. 12—Cast Iron, Japanned; Rosewood Handles; Length 6¼ inches; 3 inch Blade; Weight 3¾ lbs..... . ...**5 50**
One in a Box.

STANLEY
Double Handle; Rosewood Face

The handles are of rosewood with a double grip, and, being placed across the center of the tool, give it a good balance. The blades are adjustable endwise and for angle, and can be firmly locked in position desired.

They can also be used as Toothing Planes, doing excellent work in scraping off old paint or glue, and in roughing up the surface of wood preparatory to veneering same.

This Plane has an extra bottom, or face, made of rosewood. This wood bottom is especially adapted for use on very fine work, as it renders less liable the possibility of marring or scratching the surface being worked upon. This bottom is detachable, and, when worn, can be readily removed and a new one substituted.

Each

No. 12½—Cast Iron, Japanned; Rosewood Handles and Face; Length 6¼ inches; 3 inch Blade; Weight 4 lbs..... .....**$7 40**
One in a Box.

Per Dozen

No. EPB—Extra Scraper Blades; For No. 112 Scrapers, also Nos. 12 and 12½ Stanley Veneer Scrapers; Weight 4 ozs... **$6 00** 2.40

No. ETB—Extra Toothed Blades; 22, 28 and 32 Teeth to an inch (Specify Number of Teeth); Weight 5 ozs.....**$8.80** 3.60
Loose.

CIRCULAR PLANES

These Planes have flexible steel faces which can be accurately adjusted for planing the inside or outside of circles. The cutters are the same and have the same adjustments as the "Bailey" and "Bed Rock" Planes.

There are two designs, varying in the method of adjusting the face.

Plane set for Inside work.

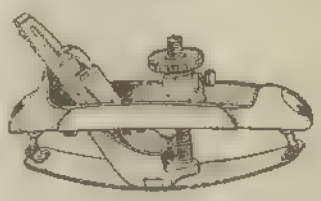
Plane set for Outside work

STANLEY ADJUSTABLE

The face is fastened at its center to the Plane Body, and adjusted at the ends by means of a screw and levers. A valuable feature is the graduated scale for setting the face.

Each

No. 113—Japanned; Length 10 inches; 1¾ inch Cutter; Weight 3 ½ lbs . **$8.70**
One in a Box.



No. 20

No. 20½

VICTOR ADJUSTABLE

This is a more recent and improved design. The face is fastened at each end to the Plane Body, and adjusted by a screw at the center. This construction gives great strength and accuracy. The fewer number of working parts causing less lost motion, give greater solidity which makes the plane work more smoothly

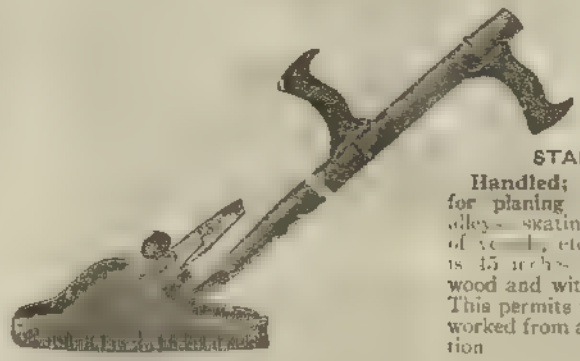
The design of the frame provides convenient and firm handles for both hands.

Length 10 inches; 1¾ inch Cutter; Weight 4 lbs.

Each

No. 20—Nickel Plated **$8 90**
No. 20½—Japanned..... .... **7 70**
One in a Box.

FLOOR PLANES



STANLEY

Handled; it is designed for planing floors, bowling alleys, skating rinks, decks of vessels, etc. The handle is 45 inches long, of hardwood and with double grips. This permits the plane to be worked from a standing position

Each

No. 74—Cast Iron, Japanned Body; Length 10½ inches; 2⅝ inch Cutter; Weight 21½ lbs..... ..... **$11 50**
One in a Box.

STANLEY SPECIAL

This Plane is fitted with an adjustable throat, permitting a wide or narrow mouth, according as coarse or fine work requires. It is designed for working from a kneeling position, the double handle making it an easy tool to work under such conditions. The cutter is adjustable endwise

Each

No. 11½—Cast Iron, Japanned Body, Hardwood Handle. Length 7 inches; 2⅜ inch Cutter; Weight 3¾ lbs **$7 00**
One in a Box.

STEEL BENCH PLANES

STANLEY ADJUSTABLE

These Planes are much in demand for outdoor work where tools are apt to get knocked around and are subjected generally to more or less rough usage. The bottoms and sides are one piece of pressed steel, making them practically non-breakable. They weigh considerably less than iron planes, and for light work on soft woods will be found very useful. The cutters are of the double type and are adjustable endwise by means of the small lever shown in the cut.

SMOOTH

Pressed Steel; Black Japanned Trimmings; Rosewood Handle and Knob; Finest Quality Tempered English Thin Steel Cutter, Ground and Honed Ready for use.

Each

No. 104—Length 9 inches; 2⅛ inch Cutter; Weight 3⅛ lbs..... **$4.30**
One in a Box.

JACK

Pressed Steel; Black Japanned Trimmings; Rosewood Handle and Knob; Finest Quality Tempered English Thin Steel Cutter, Ground and Honed ready for use.

Each

No. 105—Length 14 inches; 2⅜ inch Cutter; Weight 8⅞ lbs..... **$5.60**
One in a Box.

WOOD BENCH PLANES

BAILEY ADJUSTABLE

The frog is held in place by two machine screws which pass through the top iron and screw into two brass lugs. These lugs are screwed and securely pinned into the wood bottom. This is far superior to other methods of fastening, as it holds together firmly the wood bottom, the top iron which strengthens the wood bottom, and the frog.

SMOOTH

The bottom, handle, and knob are made from selected and well seasoned beech. The cutters are the regular "Bailey" type and are adjustable both endwise and sidewise

Nos.	21	22	23	24
Length, inches	7	8	9	8
Cutter, inches	1¾	1¾	1¾	2
Weight, lbs.	2½	2½	2½	2⅝
Each	$3.20	3.20	3.20	3.20

One in a Box.

HANDLED SMOOTH

The bottom, handle, and knob are made from selected and well seasoned beech. The cutters are the regular "Bailey" type and are adjustable both endwise and sidewise.

Each

No. 35—Length 9 inches; 2 inch Cutter; Weight 3¼ lbs..... **$3 60**
No. 36—Length 10 inches; 2⅜ inch Cutter; Weight 4 lbs..... **4 40**
One in a Box.

The bottom, handle, and knob are made from selected and well seasoned beech. The cutters are the regular "Bailey" type and are adjustable both endwise and sidewise.

JACK

Nos.	26	27	27½
Length, inches	15	15	15
Cutter, inches	2	2⅜	2¼
Weight, lbs.	3¾	4	4¼
Each	$3.40	3.80	3.90

FORE

Each

No. 28—Length 18 inches; 2⅜ inch Cutter; Weight 5½ lbs..... **$4 30**
No. 29—Length 20 inches; 2⅜ inch Cutter; Weight 6¼ lbs..... **4 40**

JOINTER

Nos.	30	31	32
Length, inches	22	24	26
Cutter, inches	2⅜	2⅜	2⅜
Weight, lbs	6¼	6½	7¾
Each	$4.70	4.70	5.00

One in a Paper Package.

WOOD BENCH PLANES

STANLEY LEVER ADJUSTMENT

They have a simple lever adjustment, are well made, and for the Householder, the Farmer or the Amateur, or in fact for use in any place where extreme nicety of work is not required, make an excellent tool.

SMOOTH

The cutters are of the double cutter type, of a high grade of steel and ground and honed ready for use. They are adjustable endwise by means of a lever and are held in place by a lever thumb screw instead of a cam. The bottoms, handles and knobs are made of beech and the entire plane is well finished.

Each

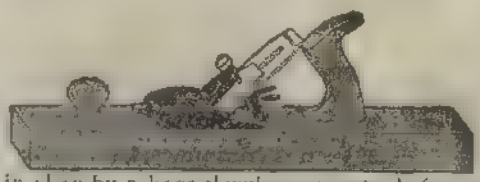
No. 122—Length 8 inches; 1¾ inch Cutter; Weight 2⅝ lbs..... **$2 50**
One in a Box.

HANDLED SMOOTH

The cutters are of the double cutter type, of a high grade of steel and ground and honed ready for use They are adjustable endwise by means of a lever and are held in place by a lever thumb screw instead of a cam. The bottoms, handles and knobs are made of beech and the entire planes well finished.

Each

No. 135—Length 10 inches; 2⅜ inch Cutter; Weight 3 lbs..... **$3.30**
One in a Box.



The cutters are of the double cutter type, of a high grade of steel and ground and honed ready for use. They are adjustable endwise by means of a lever and are held in place by a lever thumb screw instead of a cam. The bottoms, handles and knobs are made of beech and the entire plane is well finished.

	JACK	FORE	JOINTER
Nos.	127	129	132
Length, inches	15	20	26
Cutter, inches	2⅛	2⅜	2⅝
Weight, lbs.	3½	5⅛	7⅞
Each	$3.80	3 60	4.20

One in a Paper Package.

SCRUB PLANES

STANLEY

With these planes the user can quickly plane down to a rough dimension any board that is too wide to conveniently rip with a hand saw, an operation that is sometimes called "hogging." This is made possible by reason of the peculiar shape of the extra heavy cutter, the cutting edge of which is rounded instead of square.

Japanned Cast Iron; Beechwood Handle and Knob.

Each

No. 40—Length 9½ inches; 1⅝ inch Cutter; Weight 2¼ lbs. **$2 40**
No. 40½—Length 10½ inches; 1⅝ inch Cutter; Weight 2½ lbs. **3 30**
One in a Box.

FURRING PLANES

STANLEY

For preparing lumber as it comes roughly sawed from the mill. The construction of the bottom is such that it will remove the fur, grit, dirt, etc., and in fact "clean up" the surface and get it ready for the bench plane quicker than any other hand tool.

Each

No. 340—Japanned Cast Iron; Beechwood Handle and Knob; Length 10 inches; 2 inch Cutter; Weight 2½ lbs.... **$3 30**
One in a Box.

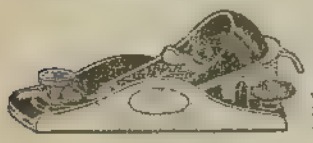
IRON BLOCK PLANES

BAILEY ADJUSTABLE

All numbers have the most improved form of adjustment, which enables the user to accurately adjust the cutter either endwise or sidewise. The cutter rests on its seat at an angle of 20 degrees as against 45 degrees in the ordinary Bench Plane, and the cutter bevel is made on the upper instead of on the lower side. All have adjustable throats which permit of the opening or closing of the mouth as coarse or fine work may require.

Length 6 inches; 1⅝ inch Cutter; Weight 1½ lbs.

	Each
No. 9½—Japanned Trimmings	$2 30
No. 16—Nickeled Trimmings	2 70



Length 7 inches; 1⅝ inch Cutter; Weight 1⅝ lbs.

	Each
No. 15—Japanned Trimmings	$2 60
No. 17—Nickeled Trimmings	3 00

Knuckle Joint; Nickel Plated

These Planes are now fitted with a new and patented form of lever or cap, which being entirely of steel, makes it practically indestructible. This new Knuckle Joint permits of great leverage, consequently the lever can be placed in position or removed with very little effort.

	Each
No. 18—Length 6 inches; 1⅝ inch Cutter; Weight 1⅝ lbs.	$2 90
No. 19—Length 7 inches; 1⅝ inch Cutter; Weight 1⅝ lbs.	3 10

With Iron Handle and Rosewood Knob extending from Rear to enable the User to conveniently work the Plane with both hands if desired. **Japanned Trimmings;** 1⅝ in. Cutters

	Each
No. 9¾—Length 6 inches; Weight 1⅝ lbs.	$2 90
No. 15½—Length 7 inches; Weight 1⅝ lbs.	3 10

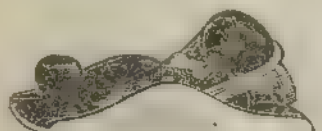
STANLEY ADJUSTABLE

Lever Adjustment

For light work. The cutter is adjustable endwise, the form of adjustment being known as the lever adjustment. The small boss cast on the front of the plane serves as a convenient finger rest for the operator. The bottom is ground true and the sides neatly japanned. Each

No. 103—Length 5½ inches; 1⅝ inch Cutter; Weight 1 lb. $1 20

Screw Adjustment



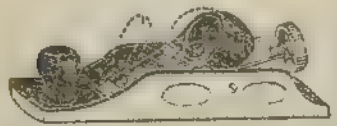
With Rosewood Knob on Front. In many ways better adapted for average use than any of the cheaper block planes made. It is ground on both bottom and sides. The cutter is made of high grade steel, is fastened by a lever cap, and is adjustable endwise by a screw adjustment operated from the rear of the plane. Each

No. 220—Length 7½ inches, 1⅝ inch Cutter; Weight 1⅝ lbs. $1 70

STANLEY SPECIAL

Double End, Non-Adjustable Hardwood Knob; Japanned Trimmings. Two slots and two cutter seats. The center seat and slot to be used for ordinary block plane work, the other slot and seat for use when it is desired to work same as a bull nose plane. Each

No. 130—Length 8 inches; 1⅝ inch Cutter; Weight 1⅝ lbs. $1 70



Double End, Adjustable Rosewood Knob; Japanned Trimmings; Combination block and bull nose plane. It has two slots and a movable cutter seat. Use center cutter seat and slot for ordinary block plane work. For use as a bull nose plane remove the cap and cutter, reverse the cutter seat by forcing to the position shown (dotted lines in cut), replace the cap and cutter in the new position. Also the "Hand-y" feature, and the cutter is adjustable endwise.

	Each
No. 131—Length 8 inches; 1⅝ inch Cutter; Weight 1½ lbs.	$2 90

Not Above One in a Box.

IRON BLOCK PLANES

STANLEY NON-ADJUSTABLE

For all kinds of ordinary work requiring the use of a block plane they are excellent tools. The cutters in all numbers are of a high grade of steel, and are as carefully tempered and ground as are those in the more expensive planes of this class. This is a very handy little plane for household use and many mechanics carry one in their kits for odds and ends of light work. The boss on the front acts as a finger rest. **The Bottom is ground and the sides japanned.**

Each

No. 101—Length 3½ inches; 1 inch Cutter; Weight ¼ lb. $0 50

Six in a Package.

With Iron Handle, Ground Bottom, Japanned sides. The Iron Handle fits nicely in the palm of the hand and insures a firm grip.

Each

No. 100—Length 3½ inches; 1 inch Cutter; Weight ⅝ lb. $0 66

One in a Package.

Ground Bottom; Japanned Sides. Boss on front acts as a Finger Rest. This is a light and serviceable Plane for general all around work.

Each

No. 102—Length 5½ inches; 1⅝ inch Cutter; Weight 1 lb. $0 90

One in a Package.

Black Stained Applewood Knob. Both the bottoms and sides are ground; Japanned Trimmings. The most popular of all non-adjustable Block Planes.

Each

No. 110—Length 7½ inches; 1⅝ inch Cutter; Weight 1⅝ lbs. $1.16

One in a Package.

LOW-ANGLE BLOCK PLANES

STANLEY

In the Low-Angle Planes the cutter rests on its seat at an angle of only 12 degrees. This angle permits of great ease in working across the grain on end grain work.

All cutters are made of high grade steel and are adjustable endwise by means of the adjusting wheel at the rear of the plane.

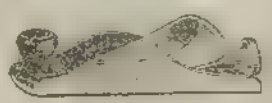
Adjustable Throat for Coarse or Fine Work. Length 6 inches; 1⅝ inch Cutter; Weight 1¾ lbs.

Each

No. 60—Nickeled Trimmings $2 70

No. 60½—Japanned Trimmings 2 40

One in a Box.



Solid Throat, Not Adjustable; Rosewood Knob; Nickeled Trimmings; The cutters are adjustable endwise and the planes are fitted with the "Hand-y" feature. On account of their size and simple adjustments, these planes will commend themselves to teachers of manual training.

Each

No. 61—Length 6 inches; 1⅝ inch Cutter; Weight 1¼ lbs. $2 30

No. 63—Length 7 inches; 1⅝ inch Cutter; Weight 1⅝ lbs. 2 80

One in a Box.

Adjustable Throat for Coarse or Fine Work with Patented Knuckle Joint Lever. Length 7 inches; 1⅝ inch Cutter; Weight 1⅝ lbs.

Each

No. 63 Nickeled Knuckle Joint $3.10

No. 65½—Japanned Trimmings 2.50

One in a Box.

LOW ANGLE JACK OR BLOCK PLANE

This Plane is especially adapted for use in cutting across the grain on heavy work, where more power is required than can be obtained by the use of the ordinary Block Plane. It is fitted with a Rosewood Handle and Knob, and is designed to be operated with both hands.

Japanned Trimmings Each

No. 62—Length 14 inches; 2 inch Cutter; Weight 3⅝ lbs. $6.30

One in a Box.

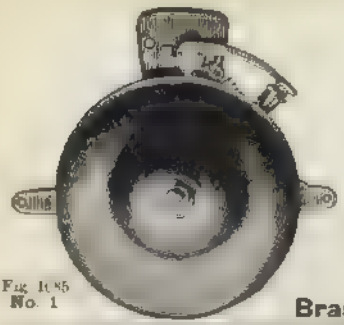


Fig. 1085
No. 1

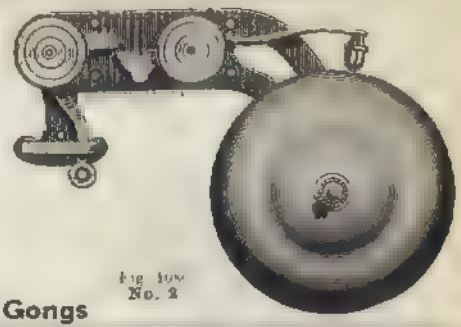


Fig. 1086
No. 2

Brass Gongs

Diameter Inches	No. 1 Each	No. 2 Each	Diameter Inches	No. 1 Each	No. 2 Each	Diameter Inches	No. 1 Each	No. 2 Each	Diameter Inches	No. 1 Each	No. 2 Each
4	$2 15	$3 15	6	$3 00	$4 50	8	$4 50	$6 75	10	$6 00	$9 00
5	3 25	3 65	7	5 00	5 75	9	5 50	7 00	12	9 00	21 00

Discount

Trip Gongs

For Fire Department, Patrol Wagons, Trucks, Etc

Diameter	Each	Diameter	Each	Diameter	Each
10 inch, polished	$15 00	12 inch polished	$20 00	14 inch, polished	$25 00

Steel Gongs

Heavy Steel Gong Shells

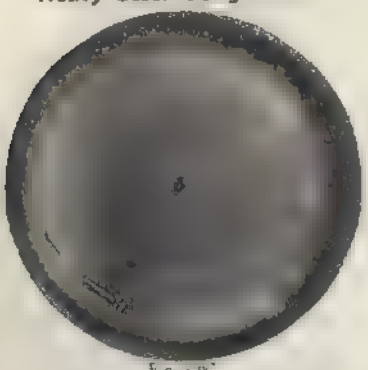


Fig. 1087

These gongs are manufactured from a special analysis of gong steel. They have a sound clear, musical tone, and will not crack or lose the sound if struck a number of successive times in the same place.

Finished with black japan, tinned, galvanized, copper, nickel, brass plated and special rust-proof nickel.

Diameter In.	Thickness U. S. Gauge	Size of Center Hole	Inside Depth	Approx. Weight	Price Each
8	11	⅝ Rd		8	
9	11	⅝ Rd		8½	
10	11	⅝ Rd		9	
11	9	⅝ Rd		10	
12	7	⅝ Rd		7½	
14	7	⅝ Rd		10	

Prices on application

Rotary Multiple Ringing Foot Gong

Fig. 1088

There is no mistaking the ring of this gong, which can be varied from a single blow to a continuous alarm. Fifteen to twenty rings with each depression of the pin.

All exposed parts are highly nickel plated and the gong will not crack, chip or lose its tone, no matter what climatic conditions of service or weather it may be subjected to.

The attachment is simple and durable. There are fewer parts in it than in any other similar style gong and consequently less liability of getting out of order or expense to keep it in working order.

No. 1950

Nickel plated	each $15 00
10-inch diameter	each 20 00
12-inch diameter	each 20 00
14-inch diameter	each 25 00

R. R. Car and Switch Locks

Fig. 1089

Fig. 1090

Fig. 109

Fig. 1092

With Spring Covers

2½-inch tumbler lock, bronze — per dozen
2½-inch tumbler lock, bronze, heavy — per dozen
2½-inch tumbler lock, bronze, with chain — per dozen
2½-inch tumbler lock, bronze, with heavy chain — per dozen

Stockyard gate locks, tool box locks, locks of every description. Special locks with special keys.

Fig. 1093

No 894. Steel japanned case, nickel plated iron shackle, two nickel plated keys

No. 686. Steel japanned case, nickel plated shackle, two nickel plated flat steel keys

Fig. 1094

Star Power Hack Saw Machines

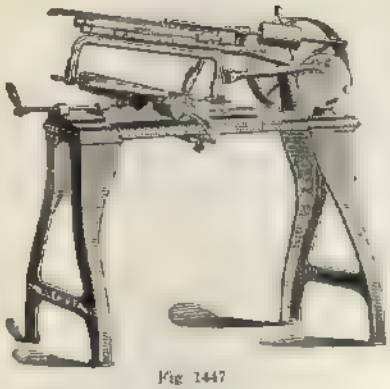


Fig 1447
No. 90

Gear drive gives great steadiness to stroke. Quick return of saw frame saves time, back stroke being twice speed of cutting stroke.

Saw frame slightly lifted on back stroke, prolongs life of blade.

Attachment holds the blade suspended just above work. Thus leaving both hands free for adjusting, etc. Support on bed prevents material from dropping off when cut is nearly finished. Adjusting screw takes up any wear on the arm. Working parts under the bed away from dust and dirt

Stops automatically when cut is made

Weight, boxed, 294 pounds; weight, crated, 258 pounds; weight, net, 215 pounds. Dimensions and all other descriptions same as No. 91. each $35 00

In all respects the same as machine No 90, except that it is provided with a swivel vise

Back geared 3 to 1. Height from floor to top of bed, 28 inches, floor space, 20 x 46 inches; strokes recommended per minute, 80; size of pulley, 2 x 6 inches; cutting capacity, 5 x 5 inches; length of blade, 12 inches

Weight, boxed, 205 pounds; crated 270 pounds, net 225 pounds.....each $50.00

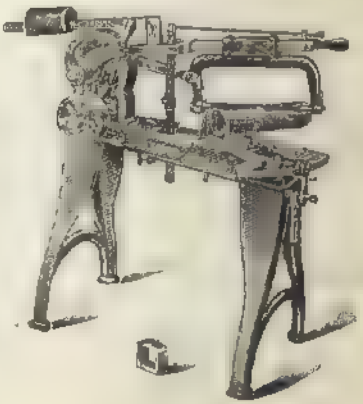


Fig 1448
No. 91

Peerless High Speed Metal Saws

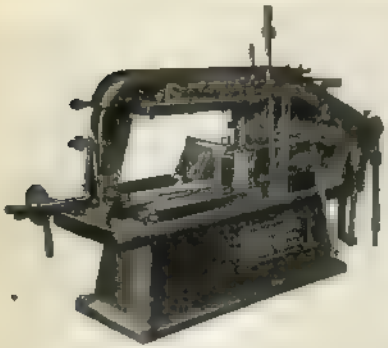


Fig 1449

It insures absolute alignment to all the working parts irrespective of how the machine may be set up. An irregular floor or a careless setting cannot affect the satisfactory operation of the Peerless High Speed The full [illegible] base also makes cleaning very convenient there is no open space under the machine to invite the accumulation of chips and dirt

In general you will find that the Peerless High Speed is designed throughout for long life and efficiency Special attention is invited to the ruggedness of design there are no complicated mechanisms nor delicate parts. The tool is so nicely designed and constructed that even though it is capable of the very heaviest work, still no degree of sensitiveness has been sacrificed

Specifications

Capacity Inches	Blades Inches	Stroke Inches	Pulley Reducing Belt Driven Inches	Pulley on Speed Motor Change Gear Box Inches	Pulley Motor Driven 6-Speed Inches	Height Floor to Vise Inches	Floor Space Inches	Net Weight Pounds	Shipping Weight Pounds
9 x 9	10 to 17	6	2½ x 8	2 x 8	2½ x 16	21	26 x 56	900	1185
13 x 16	12 to 24	6	3 x 8	2 x 8	3 x 16	21	30 x 92	1650	1875

Speed—See instruction card.

Interchangeability is secured through the use of elaborate jigs and fixtures in the manufacture of the Peerless High Speed. This insures the easy renewal of broken parts and avoids the necessity of expensive hand fitting. This machine is not like the majority of hack saws, a product of a foundry, but is a machine tool of the highest grade

In general you will find that the Peerless High Speed is designed throughout for long life and efficiency. The main shaft is 1⅝-inch diameter with a main bearing 5½ inches long The driving pulley and the crank shaft disc are securely keyed to the main shaft, avoiding any possibility of their loosening at high speeds. The crank pin and wrist pin are of steel hardened and ground to exact size, and are 1-inch in diameter and 1⅛ inches long The connecting rod at the crank pin end is provided with a cap for taking up the wear, while at the wrist pin end a solid bronze bushing is fitted which may be easily renewed in case of wear

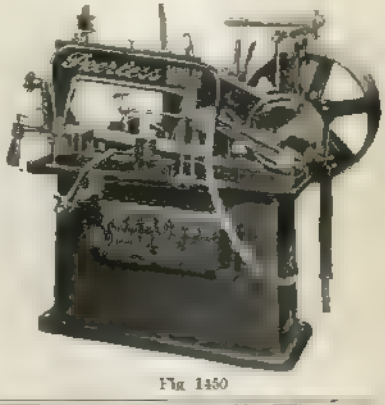


Fig 1450

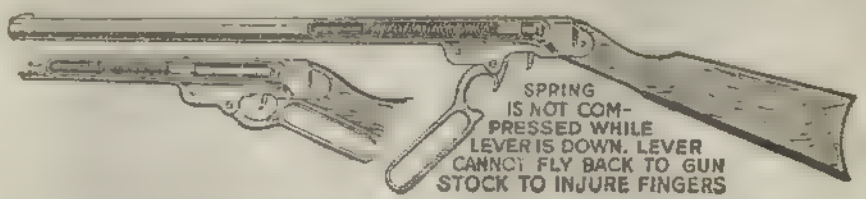
Capacity Inches	Blades Inches	Stroke Inches	Driving Pulley Inches	Height Floor to Vise Inches	Floor Space Inches	Net Weight Pounds	Shipping Weight Pounds
5 x 6	10 to 14	6	3 x 14	22	22 x 44	585	635

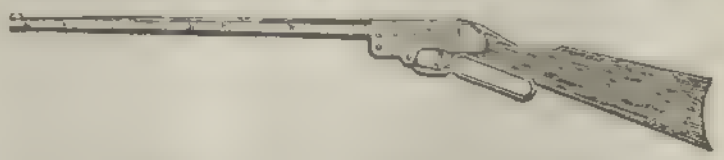
Speed—See instruction card,

STERLING AIR RIFLES

FULLY GUARANTEED

These Air Rifles are Made of the Best Materials and Involve Only the Newest and Simplest Mechanical Construction. They Cannot be Discharged Until the Lever Has Been Pushed Down. The Gun Stock Cannot be Injured by The Safety is Automatic and No Safety Catch is Needed or Used. They are Provided with an Inner and Separate Compression Chamber Reinforced to withstand Extra Strong Shooting Force. All Working Parts are Enclosed in this Compression Chamber. The Plunger Rod and Trigger are Each Made of One Piece of Steel, Case Hardened and Will Not Break or Wear. No Cast Iron Use. Flat Wire Springs that will not Set or Break are Used, and are Fully Tested Before Assembled in Guns. Full Directions for Using Sent with Each Rifle.





MODEL G—LEVER ACTION, REPEATER

Magazine Holds 1,000 Air Rifle Shot; Loads Automatically by Operating Lever; Action of Lever Easy and Smooth; Automatic Shot Retainer; Prevents Shot from Rolling Out of Barrel.

Black Walnut Stock, Natural Finish; Gun Metal Finish; Octagonal Tapering Barrel and Frame.

Per Dozen

No. G—1,000 Shot; Length 35 inches; Weight per Dozen about 35 lbs. **$48 00**

One Dozen in a Case

MODEL F—LEVER ACTION, REPEATER

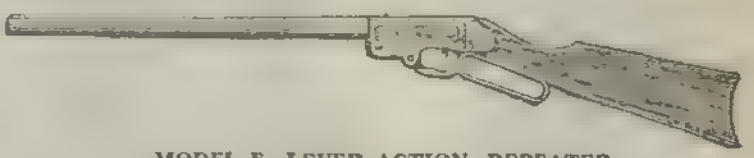
Magazine Holds 500 Air Rifle Shot; Loads Automatically; Action of Lever Easy and Smooth; Automatic Shot Retainer; Prevents Shot from Rolling out of Barrel.

Black Walnut Stock, Natural Finish; Gun Metal Finish, Octagonal Tapering Barrel and Frame.

Per Dozen

No. F—500 Shot; Length 33 inches; Weight per Dozen about 33 lbs. **$39 00**

One Dozen in a Case



MODEL E—LEVER ACTION, REPEATER

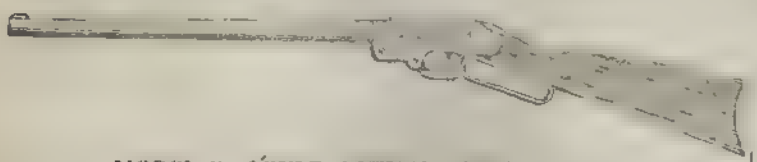
Magazine Holds 350 Air Rifle Shot; Lever Action; Smooth and Perfect; Automatic Shot Retainer; Prevents Shot from Rolling Out of Barrel.

Walnut Stock, Dull Finish; Gun Metal Finish, Round Tapering Barrel.

Per Dozen

No. E—350 Shot; Length 31½ inches; Weight per Dozen about 32 lbs. **$33 00**

One Dozen in a Case



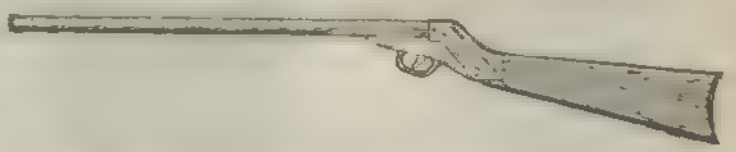
MODEL D—LEVER ACTION, SINGLE SHOT

Shoots Air Rifle Shot; Accurate and Strong; Walnut Stock, Dull Finish; Gun Metal Finish, Round Tapering Barrel.

Per Dozen

No. D—Single Shot; Length 31 inches; Weight per Dozen about 25 lbs. **$24 00**

One Dozen in a Case



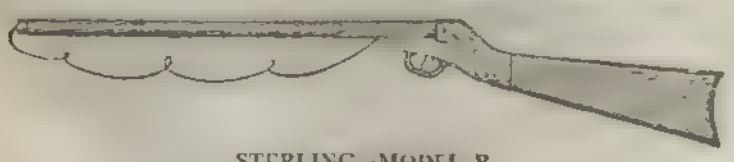
MODEL C—SPECIAL SINGLE SHOT; BREAK DOWN ACTION

Shoots Air Rifle Shot; Substantial Construction; Shoots Strong and Accurate; Stock Rigidly Attached to Frame; Reinforced Barrel, Highly Nickel Plated.

Per Dozen

No. C—Single Shot; Length 29 inches; Weight per Dozen about 20 lbs. **$12 00**

One Dozen in a Case



STERLING—MODEL B

A Perfect Air Pop Gun; Shoots Cork; Makes a Lot of Noise but Does No Damage; Substantial Construction; Walnut Stock Rigidly Attached to Frame, Barrel Highly Nickel Plated.

Per Dozen

No. B—Pop Gun; Length 20 inches; Weight per Dozen 20 lbs **$12 00**

One Dozen in a Case

STERLING—RIFLETTE

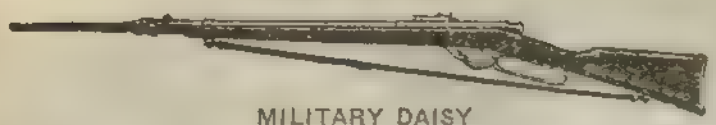
Shoots a Cork Attached to End of a String; Makes a Loud Noise but Does No Damage; High Class Construction; Easy and Smooth Lever Action; Black Walnut Stock Shaped and Polished, Round Barrel Nickel Plated and Polished.

Per Dozen

No. A—Riflette; Length 17 inches; Weight per Dozen about 6 lbs. **$5 50**

One in a Carton; One Gross in a Case; Weight per Case 70 lbs.

AIR RIFLES



MILITARY DAISY

Lever Action—Repeater

Every detail designed after the latest military rifle, a Repeater; has all the Hard-hitting, Accurate Daisy qualities—just the Gun for Drill as well as for Target Shooting.

While this Air Rifle shoots Strong and Accurately, it Avoids the Danger of ordinary Firearms. The Dart has a Brass and Rubber point so as to render it harmless.

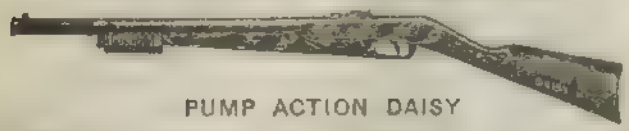
This Rifle is a Model Repeater and Uses a Barrel that it Can be Fired in any Direction without Losing a Shot.

In all Daisies, this Military Type is as Carefully Designed, Made and Finished as a Man's Rifle. It has a Beautiful Walnut Finished stock. All Metal Parts are Finished in Gunblue. The Rear Sights are Open and Adjustable. The Front Sight is of the Knife Type. The Rifle comes Complete with Sling and Swivel.

Per Dozen

No. 40—Shoots Air Rifle Shot only; Weight 3¾ lbs.; Length Over All 42 inches..... $66 00

One in a Box; Six in a Case; Case Weighs 30 lbs.



PUMP ACTION DAISY

A GENUINE PUMP ACTION REPEATER—TAKE DOWN MODEL

This is the Very Latest Improvement in Air Rifles and for Appearance and Effectiveness this New Pump Action Daisy Compares Favorably with the Finest of Small Arms on the Market.

A Simple "Take Down" System Permits the Rifle being Taken Down and Put Together Easily and Quickly.

This Rifle is very Effective for General Air Rifle use, Being Very Accurate and Powerful up to 25 or 30 Feet, And Specially Designed for the House, Club or for Target Practice.

The Loading Action is Automatic and Operated by Pulling the Slide Forward by the Stock. The Smoothest and Simplest Action ever Invented. Uses Round Lead Shot, Is Magazine Having a Forty Shot Capacity.

Barrel—Made of Good Grade Steel, Non-Rusting Gun Blue; Adjustable Front and Rear Sights.

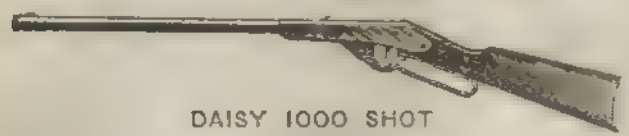
Frame—Pressed Steel; Non-Rustable Gun Blue Finish.

Stock—Genuine Black Walnut, Hand Polished.

Per Dozen

No. 25—Shoots Air Rifle Shot Only; Length Over All 38 inches; Weight 3¾ lbs..... $72 00

Half Dozen in a Case; Weight per Case 24 lbs.



DAISY 1000 SHOT

Winchester Lever Action, Automatic Repeater. Shoots 1000 Times without Reloading. All working Parts Made of Steel and Brass; all Parts Interchangeable. The Most Gun-Like Air Rifle on the Market. Shoots Accurately and with Great Force.

Barrel—Polished Steel, Nickel Plated, Length 23 inches.

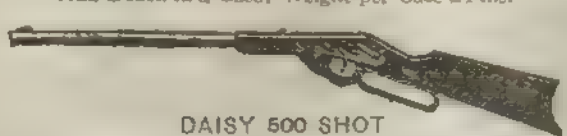
Stock—Black Walnut, Oil Finished and Polished.

Frame—Pressed Steel, Nickel Plated; Malleable Iron Lever and Trigger, Nickeled. Open Front and Rear Sights.

Per Dozen

No. 1000—Shoots Air Rifle Shot Only; Weight 3 lbs.; Length Over All 36 inches..... $48 00

Half Dozen in a Case; Weight per Case 24 lbs.



DAISY 500 SHOT

Lever Action, Automatic Repeater, Shoots 500 Times without Reloading. All Working Parts Made of Steel and Brass; All Parts Interchangeable. A Strictly High Grade Air Rifle.

Barrel—Polished Steel, Nickel Plated, Length 20¼ inches.

Stock—Black Walnut, Oil Finished and Polished.

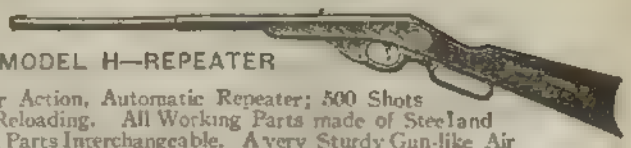
Frame—Pressed Steel, Nickel Plated; Malleable Iron Lever and Trigger, Nickeled. Open Front and Rear Sights.

Per Dozen

No. 500—Shoots Air Rifle Shot Only; Weight 2¾ lbs.; Length Over All 32 inches..... $36 00

Half Dozen in a Case; Weight per Case 22 lbs.

AIR RIFLES



DAISY MODEL H—REPEATER

Lever Action, Automatic Repeater; 500 Shots without Reloading. All Working Parts made of Steel and Brass; all Parts Interchangeable. A very Sturdy Gun-like Air Rifle. Shoots Accurately and with Great Force.

Barrel—One Piece Steel; Nickel Plated; Length 21 inches.

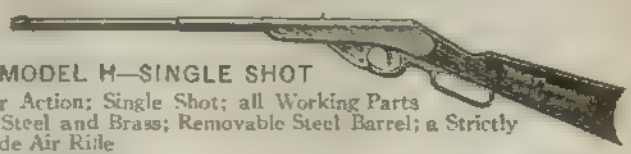
Stock—Black Walnut; Oil Finished and Polished.

Frame—Pressed Steel; Nickel Plated; Malleable Iron Lever and Trigger; Nickeled; Open Front and Peep Rear Sights.

Per Dozen

No. 11—Shoots Air Rifle Shot Only; Length Over All 31½ inches; Weight 1¾ lbs..... $30 00

One Dozen in a Case; Weight per Case 30 lbs.



DAISY MODEL H—SINGLE SHOT

Lever Action; Single Shot; all Working Parts made of Steel and Brass; Removable Steel Barrel; a Strictly High Grade Air Rifle.

Barrel—One Piece Steel, Removable; Nickel Plated; Length 21 inches.

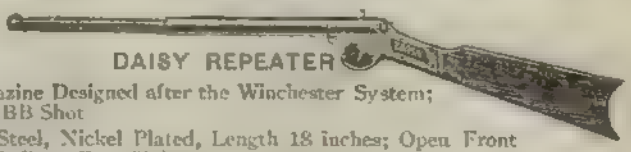
Stock—Black Walnut; Oil Finished and Polished.

Frame—Pressed Steel; Nickel Plated; Malleable Iron Lever and Trigger, Nickeled; Open Front and Rear Sights.

Per Dozen

No. 12—Shoots Air Rifle Shot or Darts; Length Over All 31½ inches; Weight 1¾ lbs..... $24 00

One Dozen in a Case; Weight per Case 30 lbs.



DAISY REPEATER

Magazine Designed after the Winchester System; Holds 48 BB Shot

Barrel—Steel, Nickel Plated, Length 18 inches; Open Front and Peep Rear Sight.

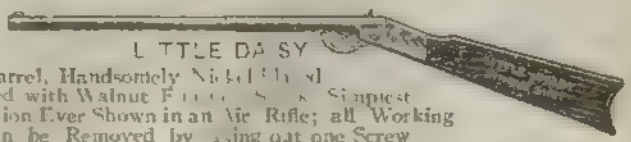
Stock—Black Walnut, Varnished.

Frame—Malleable Iron Trigger Guard and Trigger, Nickeled; Pistol Grip Nickel Plated and Polished.

Per Dozen

No. 10—Shoots Air Rifle Shot Only; Weight 1¾ lbs; Length Over All 30½ inches..... $22 00

One Dozen in a Case; Weight per Case 27 lbs.



LITTLE DAISY

Steel Barrel, Handsomely Nickel Plated and Fitted with Walnut Finished Stock. Simplest Construction Ever Shown in an Air Rifle; all Working Parts Can be Removed by Taking out one Screw.

Per Dozen

No. 0—Length 29 inches; Weight 19 ozs..... $17 00

One Dozen in a Case; Weight per Case 20 lbs.

LIQUID PISTOLS

DAISY

Per Dozen

No. DWP—Made in exact replica of Colt Automatic Pistol; Made of Blue Stamped Steel; Durable and Reliable. Length 5¼ inches; Weight 2 ozs..... $4 50

One in a Box

One Dozen in a Carton

Per Dozen

No. 53—Nickel Plated and Polished Barrel; Rubber Bulb to Contain Liquid, Forms the Grip. Operated by Squeezing the Grip. Length 9½ in., Weight per Dozen 2 lbs..... $4 50

One in a Box. One Dozen in a Carton

MEAT AND VEGETABLE SLICERS

STERLING

Does the Work in One-tenth of the Time It Can be Done with a Knife.

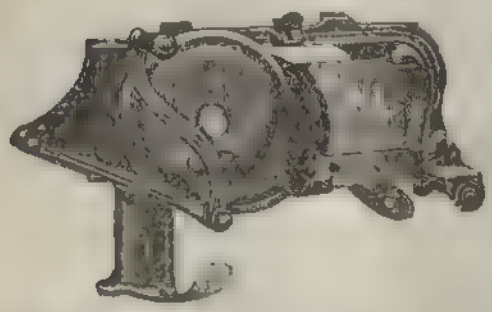
FAMILY SIZE

Slices Fruits and Vegetables from 1-32 to ½ inch Thick; Cuts Squares and Strips for French Fried Potatoes, etc.

Per Dozen

No. F10—Cast Iron Body, Berlin Bronze Finish; Height 14½ inches; 8½x1 3-16 inch Nickel Plated, Tool Steel Knife, Set in Nickel Plated Disk, 8¾ inches in Diameter; Weight Each 9 lbs. **$44 00**

One in a Box



STERLING

Does the Work in One-tenth of the Time it Can be Done with a Knife.

HOTEL SIZE

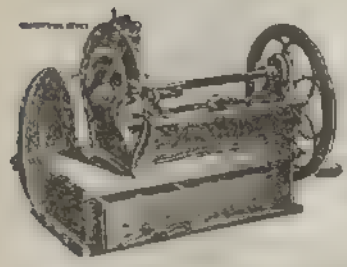
Slices Meats, Bread, etc., from Wafer Thinness to ¾ inches Thick; Cuts Like Circular Saw Does Not Mutilate Food; Plate Works Automatically.

Each

No. 50B—Cast Iron Body, Black Enameled, Gold Decorated; Height 13 inches, Length 27½ inches; 8 inch Circular Tool Steel Blade; Small Parts Nickel Plated; Self Sharpening; Weight Each 50 lbs. **$50 00**

One in a Wood Box

BEEF SLICERS



Cuts Any Thickness; Drawer Holds 3 lbs. of Sliced Beef; Japanned Cast Iron Frame; Varnished Hardwood Base; Circular Cutting Knife; Length 19 inches, Width 16 inches, Height 21 inches.

Each

+No. 120—One Blade; Slices from 1-10 to ½ inch Thick..... **$34 00**

+No. 125—Two Blades; Slices from Tissue Thinness to ½ inch Thick..... **34 00**

Weight Each, 110 lbs. One in a Crate

ENTERPRISE

Adjustable to Cut from Tissue Thinness to ½ inch Thick; Blade is Always in Cutting Condition; Cast Iron Frame, Height 17½ inches; Length 19 inches; 3x12 inch Steel Knife.

Each

No. 23—Japanned..... **$12 00**

+No. 24—Tinned..... **18 00**

Weight Each 25 lbs.

Loose

CHEESE CUTTERS

+ENTERPRISE SELF GAUGING

Set Gauge at Weight Wanted, and Amount Cut will be Approximately Correct; Cast Iron Frame, Painted and Decorated; 9 inch Tinned Steel Knife; 10½ inch Lift; 19 inch Wood Table; Height 25½ Inches.

Each

+No. 33—With Removable, Perforated Tin Cover 14 inches High; Weight Each 75 lbs. **$22 00**

One in a Crate

PEACH PARERS

SCOTTS GENUINE

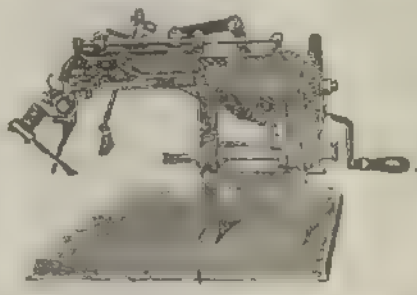
Cast Iron Frame and Gear. The Rotary is the only Machine that will Pare Peaches Perfectly, rapidly and Satisfactorily and will Pare Soft Uneven or Bruised Fruit.

Per Dozen

Scotts—Weight per Doz. 53 lbs. **$33.00**

One in a Box

APPLE PARERS



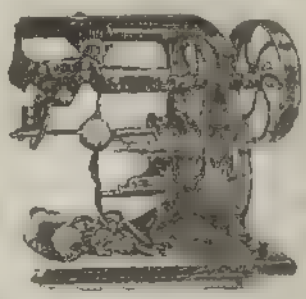
+BONANZA

Pares and Cores but Does Not Slice.

Each

Bonanza—Cast Iron Frame, Lacquered; Tempered Steel Adjustable Blade, Steel Fork, Important Bearings have Brass Bushings; Length 22 inches; Height 15 inches; Weight Each 33 lbs. **$14 00**

In a Wood Box



+NEW CENTURY—POWER

Pares and Cores, but Does Not Slice.

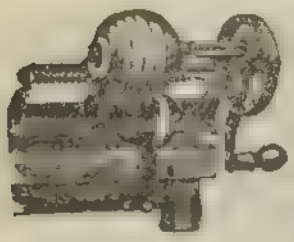
Each

New Century—One Piece Cast Iron Frame, Lacquered; Tempered Steel, Adjustable Blade; Length 23 inches, Height 18 inches; Weight Each 72 lbs. **$40 00**

One in a Wood Box

Items Marked + Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Enterprise Beef Slicers and Cheese Cutters, Philadelphia, Pa.; Apple Parers, Antrim, N. H.

APPLE PARERS



FAMILY BAY STATE

Pares, Cores and Slices and Pushes off the Fruit.

Blue Lacquered Cast Iron Frame and Gear; Tempered, Blued Steel Adjustable Paring Blades, and Detachable Slicing and Coring Blade; Threaded Steel Feed Shaft; Enameled Wood Handle; Parings Fall Clear of the Working Parts; Secured to Table by Screw Clamp.

Single Clamp; for Families, Restaurants, Bakeries, etc.

Per Dozen

No. 15—Length 11 inches, Height 8 inches, Weight per Dozen 37 lbs.. $30 00

Half Dozen in a Case

WHITE MOUNTAIN

Pares, Cores and Slices

Per Dozen

No. 50—Blue Lacquered Cast Iron Frame; 1¼ inch Tempered Steel, Adjustable Blade, Automatic Push Off; Threaded Steel Feed Shaft; Black Wood Handle; Length 9 inches, Height 6¼ inches; Secured to Table by Screw Clamp; Weight per Dozen 20 lbs. $13 50

One Dozen in a Case

READING

Per Dozen

No. 78—Cast Iron Frame and Gear; 6½ inch Gear Wheel; 1¼ inch Blued Steel, Adjustable Curved Paring Blade; Automatic Push Off; Enameled Wood Handle, Height Over All [illegible]; Weight per Dozen 45 lbs. $20 00

One in a Carton; One Dozen in a Case

DAISY

Pares, Cores and Slices

Per Dozen

No. 55—Blue Lacquered Cast Iron Frame, Tempered Steel Adjustable Paring Blade; Automatic Push Off, Detachable Tinned Steel Coring and Slicing Knife; Tinned, Threaded Steel Feed Shaft; Enameled Wood Handle; Length 9 inches, Height 5½ inches, Secured to Table by Screw Clamp; Weight per Dozen [illegible] $11 50

One Dozen in a Case

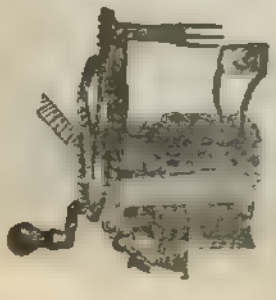
GOODELL TURNTABLE

With Push Off; Gears are above the Parings and Juice; Pares Entire Apple and Automatically Pushes it Off.

Per Dozen

No. 98—Blue Lacquered Cast Iron Frame and Gears; Adjustable Tempered Steel Blade; Enameled Wood Handle; Height 10½ inches, Width 5½ in.; 4 inch Large Gear Wheel; Weight per Dozen 31 lbs. $15.50

One Dozen in a Case.



READING TURNTABLE

Without Push Off; for Common Use; Pares the Apple, but Does Not Push it Off

Per Dozen

No. 72—Cast Iron Frame and Gears; Adjustable Steel Blade, Enameled Wood Handle; Height 7 inches, 5½ inch Large Gear Wheel; Weight per Dozen 27 lbs... $14 00

One Dozen in a Case

APPLE COREERS

Best and Most Simple Design. Takes the Core out Quickly and [illegible] with Minimum of Waste.

Per Dozen

No. ICAC—IC Tin; Size 3¼x6 inches; Open End Handle; Weight per Dozen ¾ lb..... $1.40

Loose

GEM

Per Dozen

No. GAC—IC Tin; Length 5½ inches; Beechwood Handle; Weight per Dozen 1 lb..... $1.40

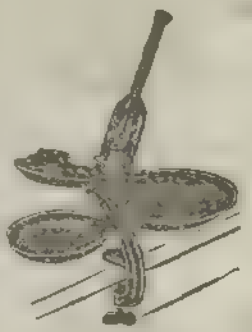
Loose

Per Dozen

No. 8XAC—1XXX Tin; Heavy Weight, Polished; Size 6x[illegible] inches; Capped Handle; Weight per Dozen 1¼ lbs..... $2.70

Loose

CHERRY SEEDERS



ROLLMAN

Capacity About 20 Quarts per Hour Either Fresh or Canned Cherries; the Plunger Punctures the Cherry and Forces the Seed out without Destroying the Shape of the Fruit.

Per Dozen

No. 8—Tinned Cast Iron Frame and Parts; 6 inch Spring Plunger in Grooved Frame, Forces the Seed Through a Hole in the Feed Table, the Cherry is Swept into the Dish on Return of Plunger, by Contact with Cross Piece; Height Over All 13 inches; Size of Dish 3½x4½ inches; Clamp Opens 1½ inches; Weight per Dozen 21 lbs.. $12.50

Half Dozen in a Case

GOODELL

Capacity About Six Quarts per Hour; Removes Seeds from Two Cherries at a Time; Drop Cherries in Hopper with Left Hand and Operate with Right Hand.

Per Dozen

No. 10—Cast Iron Frame and Clamp. Red Stained Handle; Height 6¼ inches; Length 6½ inches; Size of Feed Table 2¾x3¾ inches; Clamp Opens 1½ inches; Weight per Dozen 18 lbs..... $0 50

One Dozen in a Box

Capacity About 20 Quarts per Hour; Seeds Very Rapidly.

Per Dozen

No. 2—Tinned Cast Iron Frame and Parts; 4½ inch Ridged Feed Wheel; Tinned Clamp and Adjustable Sweep Plate; Height 11 inches, Length 9½ inches, Size of Hopper 3½x4 inches, Clamp Opens 1½ inches; Weight per Dozen 46 lbs..... $14 00

Two Dozen in a Box

SOLID SILVER SOUVENIR SPOONS.

GUARANTEED .925 FINE.

GOLD BOWLS, FRENCH GRAY HANDLES.

No. 603.
Minnesota.
Per dozen. **$24.00**

No. 606.
North Dakota.
Per dozen. . .**$24.00**

No. 608.
South Dakota.
Per dozen. . . .**$24.00**

BURNISHED BOWL AND HANDLE

No. 27611.
Pierced.
Per dozen . . .**$24.00**

No. 27624.
Pierced.
Per dozen. . . .**$24.00**

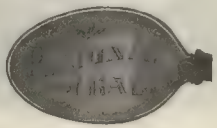
No. 605.
Montana.
Per dozen **$24.00**

No. 602.
Kansas.
Per dozen. . . .**$24.00**

No. 91.
Illinois Coffee, French Gray, Silver Bowl.
Per dozen. . . .**$21.80**

STYLES OF ENGRAVING FOR SOUVENIR SPOONS.

We do engraving in bowls of souvenir spoons illustrated on pages 4742 to 5744 in the two styles shown below, requiring about three days' time.



Per Dozen

Style No. 1—Engraving names of towns, persons, etc., one dozen lots. **$4.50**

Per Dozen

Style No. 3—Engraving buildings, etc., one dozen lots **$13.50**

SOLID SILVER SOUVENIR SPOONS.

GUARANTEED 900/1000 FINE.

ASSORTMENTS.

Full size cuts.

No. 14183A.

No. 21778A.

Per Assortment

No. 14183A—Medium weight coffee spoon assortment; French gray handles, gold bowls; assorted six spoons on a card..... **$8.00**

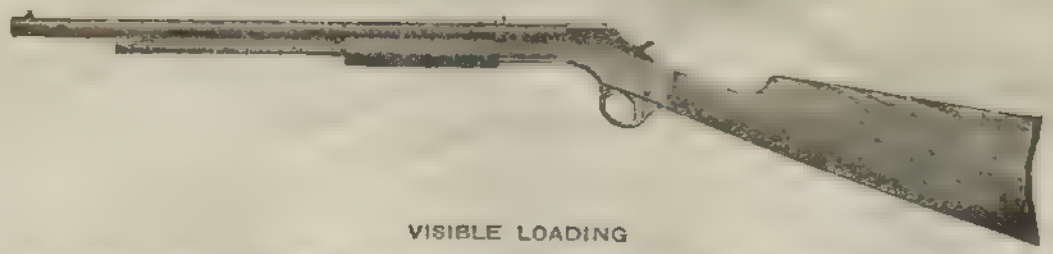
No. 7508A—Light weight coffee spoon assortment; French gray handles, gold bowls; assorted six spoons on a card.. **6.50**

Per Assortment

No. 21778A—Tea spoon assortment; French gray handle gold bowl; assorted six spoons as shown above on a card. **$10.80**

See page 5741 for engraving in bowl.

STEVENS RIFLES



VISIBLE LOADING

20 inch Round Barrel; Length Over All 35 inches. Weight 4½ lbs.; Varnished Walnut Stock and Side Handle; Case Hardened Frame; Rubber Butt Plate Beads Front and Sporting Rear Sights.

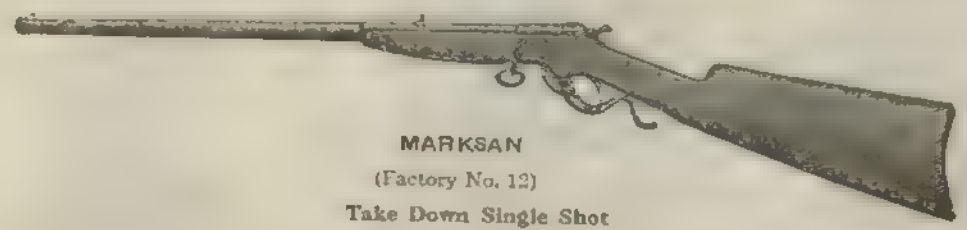
	Each
No. SV22 —22 Caliber; Shoots 22 Long and 22 Short Rifle Cartridges only	**$16.50**

One in a Box

18 Inch Round Barrel; Case Hardened Drop Forged Steel Frame; Action by a Thumb Screw Attached to the Breech Block, which Drop into the Frame; Single Trigger; Barrel is detached from Stock by loosening the screw on under side of Fame; Varnished Walnut Straight Grip Stock, not Checkered; Blue Steel Butt Plate; Varnished Walnut Fore-Arm, not Checkered; German Silver Knife Blae Front and Blue Steel Open Rear Sights Weight 3 lbs

	Each
No. SLS22 -22 Caliber; shoots 22 SRP, or LR. 22 Long Rifle RF Cartridges, also BB and CB Caps	**$5.50**

One in a Box



MARKSAN

(Factory No. 12)

Take Down Single Shot

Heavy Breech; Designed Especially for Smokeless Powder Ammunition.

20 Inch Round Tip-up Barrel; Blued Frame, Plain Cover; Positive Extractor, Full Oval Stock; Shot Gun Butt with Rubber Butt Plate; Bead Front and Open Rear Sights; Weight 4 lbs.

	Each
No. 122—22 Caliber; Shoots 22 SRF, 22 LRF or 22 Long Rifle RF Cartridges, also BB and CB Caps	**$9 00**

One in a Box

SHOT GUN—FAVORITE

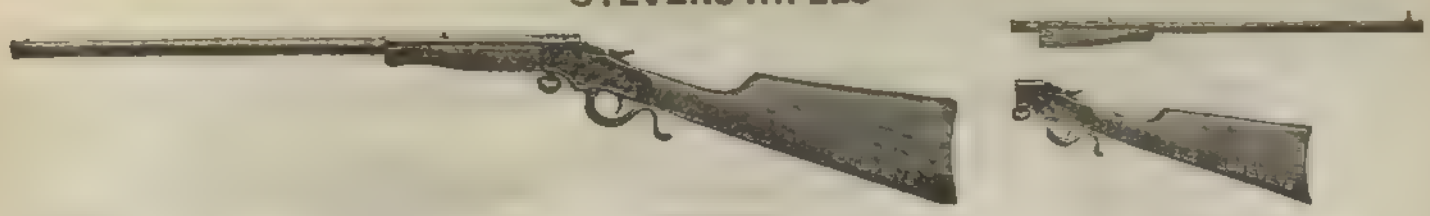
Take Down Single Shot; Automatic Ejector

Bored Smooth for Shot Cartridges. 22 inch Half Octagon Barrel; Solid Breech Block, Case Hardened Frame; Single Trigger; Oiled Walnut Stock and Fore-arm; Regular Shot Gun Butt Rubber Butt Plate; Open Front Sight Only; Weight 4¼ lbs.

	Each
No. 172S 22 Caliber, Shoots 22 Long Fire Shot Cartridges	$11 00
No. 173S 23 Caliber; Shoots 22 Long Fire Shot Cartridges	11 00

One in a Box

STEVENS RIFLES



FAVORITE

Take Down Single Shot

Should the Lever of the Favorite Rifle Become Loose, Adjust as Follows: Throw Forward the Lever; a Small Screw will be Seen in the Breech Block, Directly under the Rear of the Barrel; by Turning this Screw Out the Lever will Snap up Harder; by Turning it In it will Lessen the Snap.

22 inch Half Octagon Barrel; Solid Breech Block; Case Hardened Frame; Single Trigger; Oiled Walnut Stock and Fore Arm; Regular Shot Gun Butt; Rubber Butt Plate; **Rocky Mountain Front and Sporting Rear Sights.** Weight 4½ lbs.

	Each
No. 172 22 Caliber, with Automatic Ejector; Shoots 22 SRF, 22 LRF or 22 Long Rifle RF Cartridges, also BB and CB Caps	$11 00
No. 173 32 Caliber, with Plain Extractor; Shoots 32 SRF and 32 LRF Cartridges	11 00

One in a Box

FAVORITE

Take Down Single Shot

22 inch Half Octagon Barrel; Solid Breech Block; Case Hardened Frame; Single Trigger; Oiled Walnut Stock and Fore arm; Regular Shot Gun Butt; Rubber Butt Plate; Beach Combination Front and Stevens Leaf and Vernier Rear Sights; Weight 4½ lbs.

	Each
No. 182—22 Caliber; Shoots 22 SRF, 22 LRF or 22 Long Rifle RF Cartridges, also BB and CB Caps	$13 50
No. 185—25 Caliber; Shoots 25 Stevens Rim Fire and 25 Short Stevens RF Cartridges	15 50
No. 183—32 Caliber; Shoots 32 SRF and 32 LRF Cartridges	15 50

One in a Box

MARBLE GAME GETTER GUN

DOUBLE BARREL, SINGLE SHOT

22 Caliber Rifle Barrel and 44 Caliber Smooth Barrel

12 inch Round Blued Barrels; Drop Forged Blued Frame; Single Trigger; Rubber Grips; Nickel Plated Steel Tubing Stock; Finest Case Leather Holster; Weight Complete About 35 ozs.; Shoots 44 Shot and Ball Cartridges; 22 Short, Long and Long Rifle Cartridges; also CB Caps When Loaded with Black Powder.

	Each
No. A Equipped with Marble's Lyman Rear Sight, Bead Leaf Sight, Ivory Bead Sight	$28 80
No. B—As Above, Without Rear Sight, but with Blank	24.00

One in a Box

HAMILTON RIFLES

TAKE DOWN

18 inch Bronze Barrel with Steel Jacket, Tapered; Hammer Action with Automatic Ejector which Ejects Empty Shell when Rifle is Opened; Outer Jacket of Barrel and all Working Parts are of Steel, Having a Blue Black Gun Finish; Fitted with Knife Blade Front and Open Rear Adjustable Sights, Length Over All 30 inches.

	Each
No. 1127 22 Caliber; Genuine Black Walnut Flat Stock and Fore Arm; Straight Grip with Combination Blued Steel Trigger Guard and Pistol Grip; Combination Revolving Breech and Lock; Shoots 22 SRF and 22 LRF Cartridges; Weight 2½ lbs.	$3.50

One in a Box

MODEL 35 BOY SCOUT—MILITARY TYPE

This Rifle while Primarily Intended for the use of Boy Scouts will be found Very Serviceable for Rabbit Shooting and Small Game in General. Equipped with 1 inch Russet Sling Straps and Detachable Blade Front Sight; Blued Finish Steel Barrel with Steel Butt Plate to Prevent Injury.

	Each
No. 1135 –22 Caliber; Genuine Black Walnut Flat Stock and Fore Arm; Straight Grip with Combination Blued Steel Trigger Guard and Pistol Grip; Combination Revolving Breech and Lock; Shoots 22 SRF and 22 LRF Cartridges; Weight 3 lbs.	$4 00

One in a Box

AUTO HORNS.

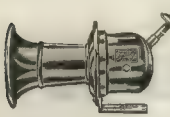
HAND OPERATED.

STEWART HORN

Very easy to operate, the slightest touch of the hand or elbow brings forth a clear penetrating tone.

Each

No. 114A—Stewart Hand Operated; finished in baked on black enamel, nickel trimmed; weight each packed 3½ lbs. $6.32



Equipped with special tempered diaphragm which produces a clear distinct warning signal. Made of the very best material throughout.

Each

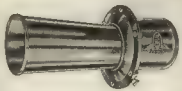
No. 151B—Stewart Hand Operated Horn; finished in black enamel; wgt. each packed 2¼ lbs. $5.00

MOTOR DRIVEN.

The model 157A is equipped with large diaphragm 5½ inches in diameter and made of the best tempered steel. Its projector is 8 inches long with a 4-inch opening at the end. The scientific relationship between the size of these and their bigness produces a compelling warning note of deeper pitch, greater volume and utmost carrying qualities.

Each

No. 157A—Stewart Motor Driven Horn; straight type for underhood mounting. $20.00



Its motor is Stewart-built and embodies a new improved design of magnetic circuit. The armature is large. Gives greater power with less current. The electrical connections are soldered direct to the brushes, assuring perfect contact at all times. The diaphragm is made of high grade tempered steel. Scientifically designed to produce the greatest tone volume and the purest note.

Each

No. 154A—Stewart Motor Driven Horn; with straight projector for underhood mounting. $8.66

The Stewart has a real motor. Its rotary motion, transmitted through an over sized vibratone-steel diaphragm, an exclusive Stewart feature, produces a full, piercing, far-reaching warning that gets instant action.

Each

No. 136A—Stewart Motor Driven Horn; with straight projector for underhood mounting. $13.32

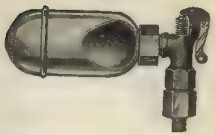
Each

No. 136C—Stewart Motor Driven Horn; same as No. 136A, except with bell shaped projector for outside mounting. $13.32

EXPLOSION 5243 WHISTLES.

BUELL.

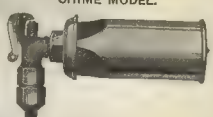
SINGLE TONE.



Each

No. BEW1—Buell Single Tone Explosion Whistle. $6.40

CHIME MODEL.



Each

No. BEW2—Buell Chime Model Explosion Whistle. $9.00

SPECIAL.

The special model is constructed the same as the other models except that it is equipped with a special Splitdorf spark plug.

Each

No. BEW1½—Buell Single Tone Special Explosion Whistle; equipped with ½ inch spark plugs for Ford and other cars using a standard ½-inch spark plug. $8.25

No. BEW1⅞—Same as BEW1½, except equipped with ⅞-inch regular spark plug for Maxwell, Briscoe and other cars using a regular ⅞-inch spark plug 8.25

No. BEW1⅞S—Same as BEW1½, except equipped with ⅞-inch extension spark plug for Buick, Chevrolet and other cars using a ⅞-inch extension spark plug 8.25

No. BEW2¹, Buell Chime Model Special Explosion Whistle; equipped with ½-inch spark plug for Ford and other cars using a standard ½-inch spark plug 10.90

No. BEW2⅞—Same as BEW2½, except equipped with ⅞-inch regular spark plug for Maxwell, Briscoe and other cars using a regular ⅞-inch spark. 10.90

No. BEW2⅞S Same as BEW2½, except equipped with ⅞-inch extension spark plug for Buick, Chevrolet and other cars using a ⅞-inch extension spark plug. 10.90

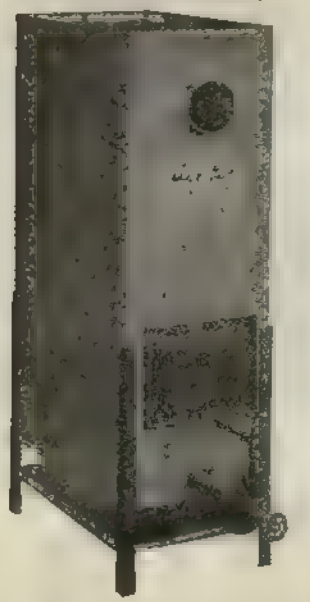
MOTO-METERS

A broken oil pump, open pet cock, loose fan belt, lack of oil or water from any cause whatever—all result in increased radiator temperature. The Moto-Meter, attached to the radiator cap, is an accurate indicator of radiator heat. The rise of the broad red column is a sure danger sign. In short, it gives your motor the power of speech before it shrieks at you. It signals plainly—"there is something wrong under the hood—stop and fix it or look out for trouble."

Standard—Black and nickel, or brass Glass crystals on both sides..Each $10.00
Junior—Black dial with nickel or brass finish .....Each 5.00
Special—For Ford cars. Same as Junior but including special radiator cap. Each 5.50
Midget—Black and nickel ....Each 2.50

One in a Box

GARAGE HEATERS



Made of heavy galvanized iron and has galvanized pan which gives double fire protection. It has the most economical burner made, proven by test. Positively gas tight all fumes are vented to outside. Comes complete with back air vent to prevent burner from blowing out. Width 12 in., height 42 in., depth 19 in. When ordering specify whether for natural or artificial gas.

Age-Gar complete.....Each $21.00

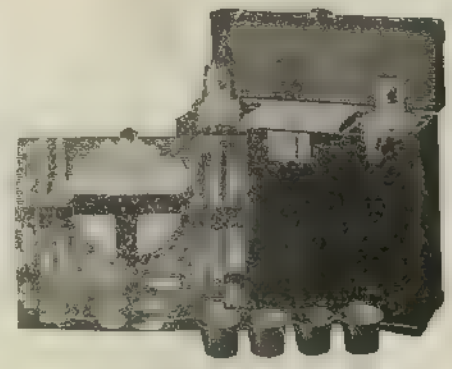
One in a Crate

MOTOR RESTAURANTS

Completely equipped for two persons. Cases dovetailed on all sides and covered with fine black grained enameled duck. Beautifully lined. Equipped with two No. 15 pint Thermos Bottles, one large Lunch Box, full equipment of knives, forks, plates, cups, etc. Has substantial lock and is easily carried as it is very compact and takes up little room. Size 11½x14½x5 inches.

No. 224—Complete.....Each $9.50

One in a Carton



Completely equipped for four persons. Cases dovetailed on all sides and covered with fine black grained enameled duck. Beautifully lined. Equipped with two No. 15Q Thermos Bottles, and one large Lunch Box. Full equipment of knives, forks, spoons, plates, cups, napkins, salt and pepper shakers, etc. Finished with substantial lock, and catches. Very compact; easily carried and takes up little room. Size 14½x16x6 inches.

No. 224Q—Complete.....Each $14.50

One in a Carton

Note—For complete line of Thermos Bottles and Cases see pages 798 and 799.

AUTOMOBILE ROBES

WOOL

Green and Scarlet Plaids. Made with 1½ in. lay edge and three rows of stitching. Weight 3¾ lbs. Size 54x72 in

No. 100.....Each $6.50

Black and Scarlet Plaids. Made with 1½ in. lay edge and three rows of stitching. Weight 4¼ lbs. Size 56x80 in.

No. 101..... Each $14.00

PLAIN GREEN PLUSH

Standard green plush robe with black plush back. Weight about 6 lbs. Size 50x60 in.

No. 108.....Each $7.00

Standard green plush robe with black plush back. Weight about 7½ lbs. Size 54x72 in.

No. 109.....Each $9.00

Standard green plush robe with black plush back. Full rubber interlined. The rubber interlining makes the robe windproof and waterproof. Weight about 7 lbs. Size 50x60 in.

No. 110.....Each $8.50

Standard green plush robe faced with black plush back. Full rubber interlined. Weight about 8½ lbs. Size 54x72 in

No. 111.....Each $11.50

MACKINAW ROBES

Fine all wool Mackinaw material, made with 2 in. pinked edges. Wind and water proof. Size 54x72 in

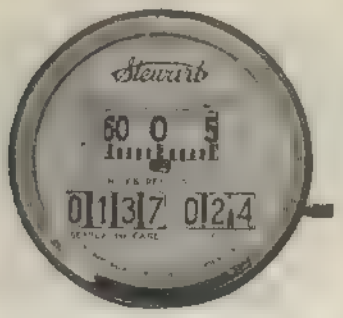
	Each
No. 202—Green and Brown Plaid.....	$11.00
No. 203—Maroon, Green and Blue Plaid	11.00
No. 204—Green, Brown and Blue Plaid	13.50
No. 205—Blue, Green and Black Plaid	13.50
No. 206—Green, Purple and Light Brown Plaid	16.00
No. 207—Green, Purple and Dark Brown Plaid	16.00

STEAMER RUGS

Made of all wool, with a 3 in. border of fringe on both ends. Size 54x72 in

	Each
No. 212—Dark Blue body with Red, White and Green Stripes. Back is solid Blue	$12.00
No. 213—Black body with Orange, Red and Green Stripes. Back is solid Brown	12.00
No. 214—Blue, Brown and Red Plaid..	12.00
No. 215—Grey, Red, White and Green Plaid	12.00
No. 220—Brown with Orange and Green Stripes	19.00
No. 221—Blue with Red and Green Stripes	19.00

SPEEDOMETERS



A new Stewart Speedometer designed especially for Ford Cars, completed with all regular Stewart equipment, including Flexible Shaft and the famous Stewart swivel joint, ready to install on any Ford Car. Of the same Magnetic type and built of the same high grade materials as in instruments that go on highest priced automobiles.

Has rotating Speed Dial, 60-mile capacity—Stewart Odometer, consisting of 10 000 mile Season Register and 100-mile Trip Register. Mile numbers of Trip Register are black on white; tenths, red on white. Mile numbers of Season Register are black on white. Trip Register can be rapidly reset to any tenth of a mile, and without disturbing the record of the Season Register, Speedometer has jeweled bearings, polished steel magnet, silver etched dial face, French plate dial glass. Case finished in "deep" jet lacquer and polished brass trim

No. 100—Complete , ...Each **$12.00**

One in a Carton

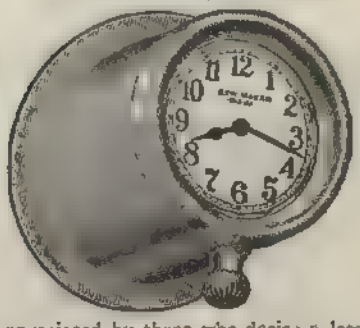
The Cowl Board is made of wood finished in bright black enamel. The Stewart Speedometer, furnished with this outfit, has a nickel flange which holds the instrument in place This Cowl Board greatly improving the appearance of a Ford car, and make it possible to install the speedometer in a much more convenient position to be easily read. To install remove the nuts from four screws, which are already in the dash of the car, fit the board in place, replacing the four nuts.

Cowl Board and Speedometer

No. 200.....Each **$14.00**

One in a Carton

AUTOMOBILE CLOCKS



Appreciated by those who desire a less expensive timepiece than the 8-day clock. Their timekeeping qualities are unimpaired by constant jolting or the steady vibration of the engine. Cases are seamless brass, 3½ inches high, 2⅞ inches wide. Fastened to the cowl-board with screws.

Duane .....Each **$3.00**

One in a Carton

AUTOMOBILE CLOCKS

8 Day

The unique way of winding and setting by the rim eliminates the use of a key or a projecting stem. Runs eight days with one winding, is fully guaranteed and will stand the hardest vibration and keep reliable time under the most trying conditions. Black and nickel finish. 2¼ inch dial

No. 12—Flush Mounting .... . .Each **$10.00**

One in a Box

8 Day

Built along the same lines as No. 12 but has dash mounting. 2¾-inch dial

No. M—Dash Mounting.....Each **$10.00**

One in a Box

A beautiful little clock that will keep time under any and all conditions. Very thin and presents a neat appearance when fastened to the cowl-board of the car. Has a 3-inch base with a 2¼-inch face.

Panama .....Each **$3.50**

One in a Carton

AUTO MIRRORS

These Mirrors are designed to fit on the front face of the stationary windshield jam of enclosed or convertible bodies. Mirror is adjustable to any angle, 5½ in. diameter, finished in black enamel

Body

No. 8423.....Each **$2.00**

One in a Carton

AUTO MIRRORS

Heavy crystal plate glass, with beveled edge, neatly framed, adjustable at two points permits proper focusing to any angle. Stamped frame and rod secured by set screws, clamps on windshield, or can be screwed on fender, 12-inch rod.

Reducing Lens

No. 50—Diameter 5 in.....Each **$3.00**

One in a Carton

French plate, beveled glass, separable frame, secured by two screws to facilitate replacement of glass in case of breakage. One-piece malleable iron arm with clamp designed to fit on round, oval, or flat windshield frames, 7½ in. arm connected to Mirror-back with adjustable ball joint, which can be tightened by hand-nut, and enables mirror to be set at any angle desired. Back and rim stamped out of sheet steel, steel parts finished with a double coat of baked black enamel. Combination finish Mirrors have polished and nickel-plated rims

		Each
No. 6112B	4x6 in. Oval, Black	$2.50
No. 6112N	4x6 in. Oval, Black and Nickel	2.80

No. 6113B	4x6 in., Square, Black.. ..	2.50
No. 6113N	4x6 in. Square, Black and Nickel	2.80

One in a Carton

Sturtevant Blowers and Fans

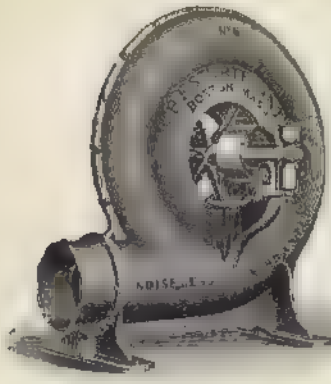


Fig. 998

Steel Pressure Blowers

No. of Blower	Diam. and Face of Pulley in Inches	Outside Diam. of Outlet in Inches	Weight in Pounds Not Packed	Price
0000	[illegible]	2⅜	17	$ 15 00
00	2⅝x1⅞	3½	35	20 00
0	3 x2	4	55	25 00
1	3 x2	4⅞	75	[illegible] 00
2	3 x2½	[illegible]	95	44 00
[illegible]	4 x3	[illegible]	125	55 00
4	5 x3	[illegible]	[illegible]	0 00
5	5½x	8	[illegible]	90 00
[illegible]	6½x	9	4[illegible]	1 5 00
7	[illegible]	10	[illegible]	180 00
8	[illegible]	13	[illegible]	250 00
9	16 x[illegible]	16	6[illegible]	325 00
10	[illegible]	18	[illegible]	450 00

Nos. 0000 to 3 [illegible] only one pulley, mounted on shaft between [illegible]. Larger sizes have two pulleys. All sizes [illegible] can be belted by [illegible] Nos. 4 to 10 are the only [illegible] with adjustable bed.

Although originally designed for [illegible] connection with cupola furnaces and forges, these blowers are adaptable for any purpose where pressures up to 16 ounces per sq. inch are to be maintained. The shell is of cast iron, the shaft of high grade steel, carefully finished, and the wheel of thin galvanized steel [illegible] on extra strong arms and accurately balanced. The great length and special oiling [illegible] of the journal boxes render them practically non-heatable.

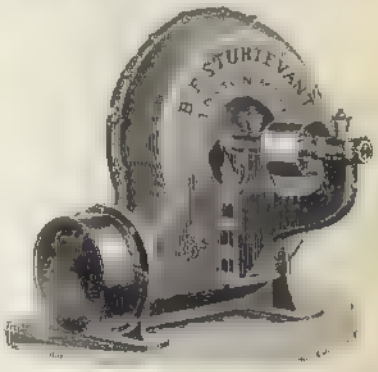


Fig. 6

"Monogram" Fans

The "Monogram" Fans, so called because of monogram "B. F. S." on side, are built either as blowers, with two inlets and a bearing on each side, as below, or as exhausters, with inlet on [illegible]. They are distinctively volume fans, with [illegible] of pressure at 4 or 5 ounces per square inch. The shells are of cast iron and construction of same high grade as the steel pressure blowers.

No. of Blower or Exhaust	Diam. and Face of Pulley in Inches	Outside Diam. of Outlet in Inches	Outside Diam. of Inlet of Exhaust in Inches	Weight in Pounds Not Packed		Price
				Blower	Exhaust	
0000	1¾x 1¾	2⅝	3⅛	11	1	$ 2 00
00	2⅝x 1⅞	4⅛	4⅞	30	32	5 00
0	3 x 2⅛	4¾	5⅝	45	50	20 00
1	3 x 2⅛	5¾	6	60	65	25 00
2	4 x 3	7	7	95	110	[illegible] 00
3	5¼x 4	9	9	145	160	44 00
4	6 x 4⅝	10⅜	10⅝	210	240	[illegible] 00
5	6½x 5¾	12⅝	12⅜	315	345	70 00
6	8 x 6½	14⅝	16	500	550	85 00
7	8½x 7½	16⅝	16⅛	700	800	150 00
8	10½x 5¾	18¾	18¾	1,000	1,100	200 00
9	12 x10½	21⅜	21⅛	1,400	1,850	250 00
10	13¾x11¼	24⅞	24½	2,000	2,200	325 00

*BASE BALL CLOTHING
*DIAMOND BRAND

We Require at Least 10 Days on all Orders

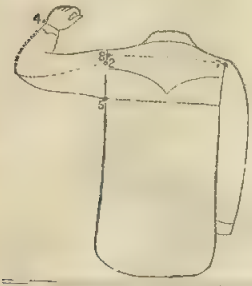
Diamond Base Ball Clothing is made up in best Workmanship and Manner Double Seams, Reinforced and Stitched with Linen Thread Pants Furnished Plain. Lined or Padded Button Front and Elastic or Tape Bottoms Shirts, Double Yoke and Collar, Long, Medium or Short Sleeves, Button or Lace Front.

In Ordering Mention Size, Color and Trimmings Wanted

COATS

Single or Double Breasted; Sack or Blouse Pattern. This Garment has become very Popular and is Used by all Professional Ball Players, is Tailor Made in Best Workmanship and Manner throughout, Double Stitched and Tape Seams Collar, Cuffs and Pockets Trimmed with Any Color Desired; Front Trimmed with Large Marine Pearl Buttons; Made up Unlined or Skeleton Style; Monogram or Letter on Top Pocket.

	Each
No. 00C—Same Material as No. 00 Uniforms	$24 00
No. 10C—Same Material and Colors as No. 10 Uniforms	22.00
No. 11C—Same Material as No. 11 Uniforms	20.00
No. 12C—Same Material as No. 12 Uniforms	19.00
No. 13C—Same Material as No. 13 Uniforms	17.00
No. 13XC—Same Material as No. 13X Uniform	16.00
No. 14C—Same Material as No. 14 Uniforms	14.00
No. 15C—Same Material as No. 15 Uniforms	12 00



HOW TO ORDER UNIFORMS

Samples of Flannels and Special Measurement Blanks Mailed to Clubs and Others Interested on Application.

If in a Hurry for Uniforms and you have no Samples and Measurement Blanks on Hand, Follow the Instructions Given Below, Give us an Idea of Color Desired, and we will Use Our Judgment in Getting up Same Our Experience for Years Past will Enable us in Most Cases to Make a Better Selection than Parties not Experienced in Selecting Materials and Trimmings for Uniforms.

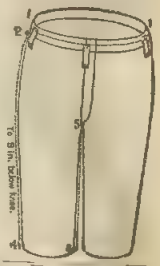
STYLE AND COLORS FOR UNIFORMS

Answer these Questions Fully Before Taking Measurements

1. Uniform No.
2. Style of Shirt and Lettering.
3. Color Desired for Letters
4. Color of Belt and Stockings.
5. Style and Color of Cap.

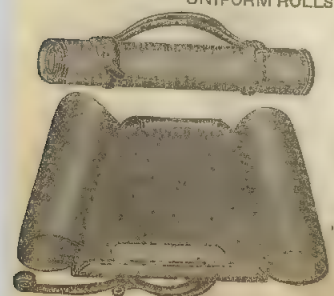
HOW TO MEASURE FOR UNIFORMS

Measure Each Man Separately as Indicated by the Numbers Given and Shown on Diagrams. Use this Form as a Copy in Absence of Special Measurement Blanks.



Names	SHIRTS Color	Sleeve 2 to 4	Chest, 5 to 5	Yoke, 7 to 8	Around Waist, 1 to 1	PANTS Outseam, 2 to 4	Inseam, 5 to 6	Around Hips, 7 to 7	Cap, Size	Belts, Size	Hose, Size	Shoes, Size

UNIFORM ROLLS



Heavy Brown Canvas, with Cloth Flaps to Fold Over and Protect Uniform; Russet Leather Straps and Handles Made to Carry One Complete Uniform; Separate Compartment for Shoes

	Each
No. UC1—Weight Each About 1¾ lbs One in a Package	$4.00

STOCKINGS

Our Stockings are Superior to Anything Ever Offered for Athletic Wear, and Combine All the Essentials of a Perfect Stocking. They are Heavy Ribbed, Full Fashioned, Hug the Leg Closely, but Comfortably and are very Durable.

Plain Colors

	Per Pair
No. 25—Black Only; Medium Weight Ribbed Cotton	$0 80

One Dozen Pair in a Box

Fancy Striped
Any Combination of Colors.

	Per Pair
No 75—Heavy Wool Ribbed, White Cotton Feet	$1 70
No. 50—Heavy Ribbed Cotton, White Feet	1 20

One Dozen Pair in a Box

BASE BALL UNIFORMS

*DIAMOND BRAND

Shipment Guaranteed Same Day that Order is Received.

Prices in These Columns Include Shirt, Cap, Belt and Stockings.

To Secure Correct Measurement and Avoid Delay, Give Chest Measurement and Size of Waist or Hips.

Changes Can be Made.

After Receipt of Orders, Give Color Number, Chest Measurement and Size of Waist or Hips.

All Uniforms We Keep in Stock come Packed in Separate Boxes, Ready to Ship at Short Notice. Special Uniforms to Order Require Longer Time. Before Ordering Special Uniforms, Send for Samples and Measurement Blanks. Have Your Order Read Exactly as How you wish Shipment Made.

Price Includes Shirt, Pants, Cap, Belt and Stockings.

To Avoid any delay, when ordering be sure to specify grade and color number, also chest measure.

These Uniforms are made and carried in stock ready to ship on demand, therefore prompt shipping charges can be made for same day of order.

We Do Not letter these Uniforms unless written with shipping order as to letter wanted. We keep in stock White, Navy Blue, Black and Green, at 5 cents each.

These letters are plain block, 2½ inches high and make a good appearance when placed on uniforms.

Shirts: Are cut on our regular full size Professional patterns and are full cut. All sizes have ample length of body and sleeves to insure a neat appearance.

Pants: Are cut from our Professional patterns which allow plenty of room at the hips and full length. Higher grade have corded seams. Belt loops and hip pockets.

Caps: All Philadelphia style unless otherwise specified.

Belts: Are of leather of good quality unless otherwise specified.

Stockings: Good heavy serviceable stock-ing with ribbed leg and white feet.

MAJOR LEAGUE

This Uniform is made of Our Famous All Wool 12 oz. Athletic flannel and equals any high priced uniform on the market.

Gray with 1-16 inch Brown Stripes 1 inch Apart.

Shirt—New York collarless style. 2 rows of Brown braid on front plait. 1 row Brown Braid on elbow sleeves.

Pants—Brown corded seams.

Cap—Philadelphia style. Thread eyelets. Brown corded seams, Yale shape. Leather sweat band.

Belt—Tan harness leather.

Stockings—Heavy wool. Oxford, with 4 inch Brown band.

Per Uniform

No. 1201—Sizes 36 to 42 inch Chest Measurement; Average weight per Uniform 2¾ lbs. **$16 00**

Navy Blue with 1-16 inch White Stripes 1 inch Apart.

Shirt—New York collarless style. Plain trim. Elbow sleeves.

Pants—Navy corded seams.

Cap—Philadelphia style. Thread eyelets. Navy visor stitched. Navy corded seams. Leather sweat band.

Belt—Black harness leather.

Stockings—Heavy wool. Oxford, with 4 inch Navy band.

Per Uniform

No. 1202—Sizes 36 to 42 inch Chest Measurement; Average weight per Uniform 2¾ lbs. **$16 00**

Navy Blue with 1-16 inch White Stripes 1 inch Apart.

Shirt—New York collarless style. 2 rows of White braid on front plait. 1 row White braid on elbow sleeves.

Pants—Green corded seams.

Cap—Philadelphia style. Thread eyelets. Green visor stitched. Green corded seams. Leather sweat band.

Belt—Black harness leather.

Stockings—Heavy wool. Oxford, with 4 inch Green band.

Per Uniform

No. 1203—Sizes 36 to 42 inch Chest Measurement; Average weight per Uniform 3 lbs. **$16.00**

BASE BALL UNIFORMS

MINOR LEAGUE

This material is a heavy all wool Athletic flannel weighing 12 oz. Made of fine combed yarns. Will not fade or shrink. Very durable and equals any high priced uniform.

Gray with 1-16 inch Green Stripes ½ inch Apart.

Shirt—New York collarless style. 2 rows of Green braid on front plait. 1 row Green Braid on elbow sleeves.

Pants—Green corded seams.

Cap—Philadelphia style. Thread eyelets. Green visor stitched. Green corded seams. Leather sweat band.

Belt—Black harness leather.

Stockings—Heavy wool. Oxford, with 4 inch Green band.

Per Uniform

No. 1001—Sizes 36 to 42 inch Chest Measurement; Average weight per Uniform 2¾ lbs. **$14 00**

Plain Gray.

Shirt—New York collarless style. 2 rows Maroon Braid on front neck and down front plait. 1 row Maroon braid on elbow sleeves.

Pants—Maroon corded seams.

Cap—Philadelphia style. Thread eyelets. Visor to be matched. Maroon corded seams. Leather sweat band.

Belt—Tan harness leather.

Stockings—Heavy weight wool. Oxford, with 4 inch Maroon band.

Per Uniform

No. 1002—Sizes 36 to 42 inch Chest Measurement; Average weight per Uniform 2¾ lbs. **$14 00**

Gray with Navy Blue Stripes ½ inch Apart.

Shirt—New Blue military collar and front plait. Navy trimmed elbow sleeves.

Pants—Navy corded seams.

Cap—Philadelphia style. Thread eyelets. Navy visor stitched. Navy corded seams. Leather sweat band.

Belt—Black harness leather.

Stockings—Heavy weight wool. Oxford with 4 inch Navy band.

Per Uniform

No. 1003—Sizes 36 to 42 inch Chest Measurement; Average weight per Uniform 2½ lbs. **$14 00**

PROFESSIONAL LEAGUE

This fabric is a heavy all wool Athletic flannel of such weight usage cannot be equalled.

Gray with 1-16 inch Green Stripes ½ inch Apart.

Shirt—New York Collarless style. 2 rows of Green braid neck and down front plait. 1 row Green Braid on elbow sleeves.

Pants—Green Corded seams.

Cap—Philadelphia style. Thread eyelets. Green visor stitched. Green corded seams. Leather sweat band.

Belt—Black harness leather.

Stockings—Heavy wool. Oxford with 4 inch Green band.

Per Uniform

No. 851—Size 36 to 42 inch Chest Measurement; Average weight per Uniform 2 lbs. **$12 00**

Gray with 1-16 inch Navy Blue Stripes ½ inch Apart.

Shirt—New York collarless style. 2 rows Navy braid on neck and down front plait. 1 row Navy braid on elbow sleeves.

Pants—Navy corded seams.

Cap—Philadelphia style. Thread eyelets. Navy visor-stitched. Navy corded seams. Leather sweat band.

Belt—Black harness leather.

Stockings—Heavy ribbed cotton. Oxford, with 4 inch navy band.

Per Uniform

No. 852—Size 36 to 42 inch Chest Measurement; Average weight per Uniform 2 lbs. **$12.00**

Gray with 1-16 inch Maroon Stripes ¾ inch Apart.

Shirt—Maroon military collar and front plait. Maroon band on elbow length sleeves.

Pants—Maroon corded seams.

Cap—Philadelphia style. Thread eyelets. Maroon visor stitched. Maroon corded seams. Leather sweat band.

Belt—Tan harness leather.

Stockings—Heavy ribbed cotton. Oxford, with 4 inch Maroon band.

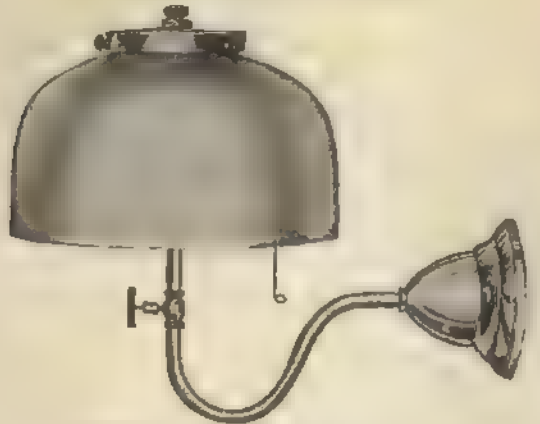
Per Uniform

No. 853—Sizes 36 to 42 inch Chest Measurement; Average weight per Uniform 2 lbs. **$12.00**

BARGAINS IN GASOLINE SPECIALTIES

GASOLINE produces the MOST POWERFUL artificial LIGHT known next to sunlight

ECONOMICAL CONVENIENT SAFE RELIABLE



THE SUNGLOW PORTABLE WALL LAMP (Nickel)
No. 207—400 Candle Power
Weight, 4½ lbs. Length, 14½ inches
Furnished for either Indoor or Outdoor Use

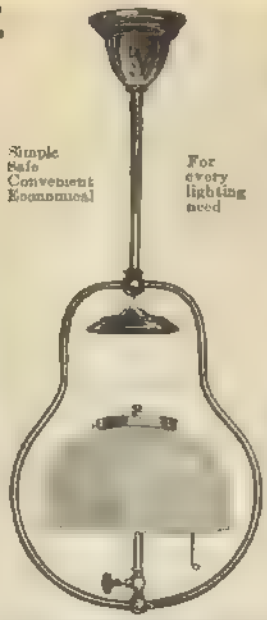
The No. 207 SUNGLOW WALL LAMP is designed for use in rooms with low or extremely high ceilings, and for lighting porches, dining rooms, bedrooms, offices, banks, boats, camps, and many other places where it is desirable to keep the lamp in use and where hanging or the stand lamp would not be advisable.

It is constructed with utmost care and best of material obtainable, thoroughly tested and inspected, insuring perfect satisfaction.

The No. 207 can also be equipped with the chimney cage and mica chimney used on the Storm King Lantern and thus becomes an excellent outdoor lamp.

No. 207 Indoor Wall Lamp, complete with pump, lighter, shades, two sets of mantles, and an extra rubber washer
List Price, Each $14 00

No. 208 Outdoor Wall Lamp with No. 7 mica, two sets of mantles, pump, lighter, and extra rubber washer
List Price, Each $15 10



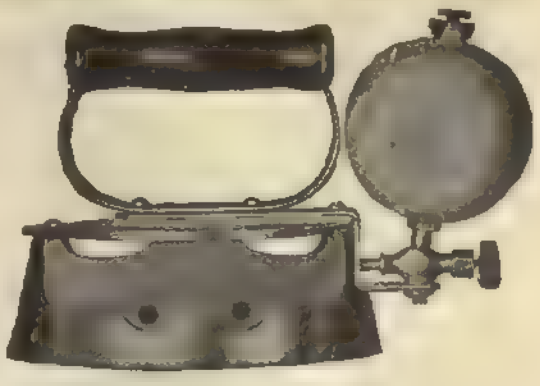
THE SUNGLOW PORTABLE HANGING LAMP (Nickel)
No. 203—400 Candle Power

The No. 203 SUNGLOW PORTABLE CEILING LAMP with new thread top is adapted for use everywhere—lighting stores, offices, factories, stores, mills, etc., and when equipped with the upright chimney and holder it is a most suitable hanging lamp for porches, lawns, tennis and driveways, buildings.

All parts are interchangeable with the parts of all other lamps of this series. Lengths over all, 22 inches with 11 inch rod. Weight 4 lbs. net. Packed singly, 10 lbs. gross, 2 lbs. singly by parcel post.

No. 203 Sunglow Indoor Hanging Lamp with two sets of mantles, No. 206 shades, pump, lighter and extra rubber washers
List Price, Each $15 75

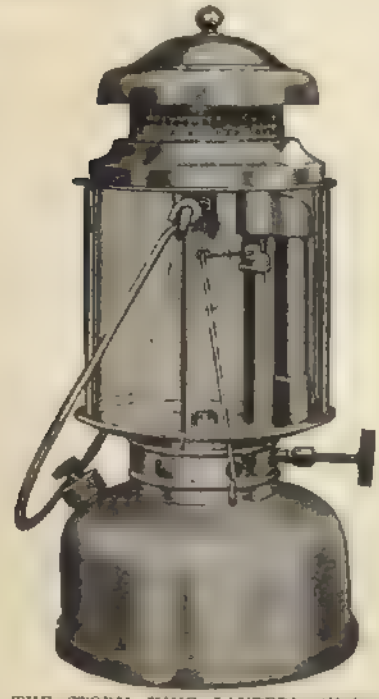
No. 203 Sunglow Outdoor Hanging Lamp, same as above, but with mica chimney and holder, complete
List Price, Each $16 75



THE COMFORT TWO POINT GASOLINE IRON (Nickel)
Easily Adjusted Always to be Trusted
Capacity, ¾ pint. Weight, 6½ lbs.
Operates 5 continuous hours on one filling. 15½ square inches of ironing surface.

Two Points—Both ends are Front Ends

The advantages are so many that no household can afford to be without one. The cost is insignificant when compared with results obtained that it is positively throwing money away to continue using the old out-of-date appliances. Quick lighting. Quick removable, self-cleaning generator. Positive shutoff against pressure.
No. 1 Each. $8.40



THE STORM KING LANTERN (Nickel)
250 Candle Power
Storm and Rain Proof
Automatically Cleaned, Cannot Clog
Guaranteed Safe and Efficient

The Nulite Storm King Lantern should be of interest to campers, hunters, summer resorts, street shows, circuses, railroad yards, freight houses, way stations, docks, wharves, camp meetings, military encampments, street lighting in small towns, and for farmers and householders everywhere.

It is an efficient, safe, reliable, powerful and economical light, absolutely storm proof and will burn anywhere and in any position. It is very simple in construction and in operation, easy to light and extinguish and can be taken apart in a few seconds if desired. It is equipped with our regular automatic tip cleaner which prevents clogging.

No dirty chimneys to wash, no wicks to trim, no smoke, no smell, no dirt, no danger, cheaper than kerosene, more efficient than electricity.

Weight, 4½ lbs. filled; height, 13 inches. Capacity, 1 quart of gasoline burns 15 hours on one filling, and produces about 250 candle power. Equipped with rag mantle, mica chimney, pump and lighter. Put up in cartons weighing 5 lbs. each.
No. 2 Each. . . $13 50

THE NULITE HANDY CAMP STOVE (Nickel)
Weight complete 5½ lbs. 8 inches high and 6 inches in diameter
Operates 6 hours on one filling of gasoline (one quart)

This is one of the most convenient articles ever made and adapted to such a large variety of uses that the field for its sale is practically unlimited.

Campers, hunters, soldiers, travelers, motorists, show people, construction and surveying gangs, miners, lumber camps, prospectors, etc., find the Nulite Camp Stove to be the very thing they have been seeking, for both cooking and heating purposes.

It produces as much heat as a 5-inch gas burner, and there is no smell, no smoke and no dirt. It generates quickly and costs a little to operate. Is safe and reliable and can be carried from place to place without waste in operation by means of wire case or handle with which it is equipped.

The heat can be regulated perfectly by means of a regulating valve so that a high or low heat can be obtained and maintained at will. Takes no priming and weighs as it burns in operation and its quick lighting qualities make it a very convenient and desirable article for the use of almost everyone.

The Nulite Camp Stove is packed in individual cartons weighing 5 lbs. each, which includes pump, funnel, alcohol bottle, lighter and instruction sheet.
No. 3 Each $11 25

250 C. P.
80 hours on one gallon of ordinary stove gasoline. Automatically cleaned. Weight, 6 lbs. Height, 22 inches. Quick removable generator. All parts interchangeable. Beautiful Hand painted 4 Color China Shade. Shade lifts off without disturbing working parts. 2 small high grade mantles. Fount holds one quart. Operates 14 hours on one filling. Finish nickel plated.

FEATURES
Simplicity, Safety, Economy, Efficiency, Convenience. Adaptability, Durability, Reliability, Ease of operation, High Candle Power, Style and Beauty. Light is adjustable. Operates on low pressure. Constructed by experts. Mantles, shade and pump furnished free with each lamp. All working parts renewable but seldom necessary. Guaranteed.

THE "NULITE FAVORITE" PORTABLE READING LAMP
Decorated China Shade (4) Colors
Automatically Cleaned, Positively Cannot Clog
(Nickel)

Portable lamp is pronounced by everyone who has seen it, the last word in gasoline lamp perfection. It is exceptionally beautiful, neat and convenient size and style, attractively finished in nickel, oxidized copper, brushed brass or polished brass, and equipped with a hand decorated china shade; it is easily the most beautiful gasoline lamp ever produced and as a household utility it is certainly a greater advantage in the modern household than any other article. It saves time and money for the user, adds comfort and cheer to the home, makes for comfort, cheerfulness and well being everywhere. It is artistically designed, perfectly constructed and produces a powerful white light of a quality unequaled except by sunlight.
No. 4 With Decorated Shade Complete. Each $16 80
No. 5 With Plain White Shade. Complete Each..... $16.10

CELEBRATED FRANCO ELECTRICAL PRODUCTS—FULLY GUARANTEED

The Franco wireless feature prevents breakage of connections, and the cases are so constructed that they cannot short-circuit when in contact with metal. One of the most common causes for trouble in flashlights is the corrosion and consequent breaking of the connection caused by leaky batteries. This wireless feature of the Franco Flashlights eliminates this trouble.

Franco Reflectors are correct in every particular and throw a brilliant, white light without any spots

Franco Radio Batteries are packed one each in sealed cartons, insuring fresh goods, and are fully guaranteed. Strong in service and recuperating powers

FLASH LIGHT QUOTED "COMPLETE"
INCLUDE
CASE, BATTERY AND BULB

GOLD MEDAL TUBULAR FLASH LIGHTS
FIBRE NON SPORT-ING FINISH

No. 6781 [illegible] $1 05
Renewal Radio Battery No. 1029 .45
Renewal Mazda Bulb No. 520 .28

With Search Light Reflectors

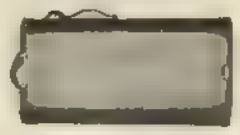
No. 6782—Size [illegible] inches, complete $4 65
Renewal Radio Battery No. 1028 .45
Renewal Mazda Bulb No. 540 .28
No. 6783 [illegible] complete 7 05
Renewal Radio Battery No. 1027 62
Renewal Mazda Bulb No. 543 .28

No. 6784 [illegible] complete $2 00
Renewal Radio Battery No. 1028 45
Renewal Mazda Bulb No. 540 .28
No. 6785 [illegible] complete 2 35
Renewal Radio Battery No. 1027 62
Renewal Mazda Bulb No. 543 28

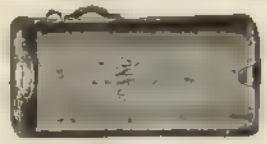
With Miner's Reflectors

No. 6788—Size 1½x6½ inches, complete $2 50
Renewal Radio Battery No. 1028 45
Renewal Mazda Bulb No. 540 28
No. 6789—Size 1½x8½ inches, complete 2 85
Renewal Radio Battery No. 1027 62
Renewal Mazda Bulb No. 543 28
No. 6790—Size 1½x13 inches complete 4 50
Renewal Radio Battery No. 1015 1 10
Renewal Mazda Bulb No. 544 28

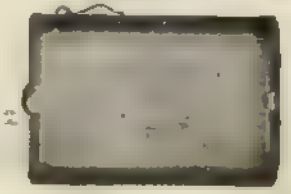
GOLD MEDAL VEST POCKET FLASH LIGHTS



VEST POCKET SIZE
No. 3430 [illegible] $1 25
Renewal Radio Battery No. 1041 45
Renewal Mazda Bulb No. 535 28



VEST POCKET SIZE
No. 3429—Size [illegible] complete $1 25
Renewal Radio Battery No. 1040 45
Renewal Mazda Bulb No. 535 28



VEST POCKET SIZE
No. 3439—Size 2½x2¾ inches complete $1 65
Renewal Radio Battery No. 1041 55
Renewal Mazda Bulb No. 536 28

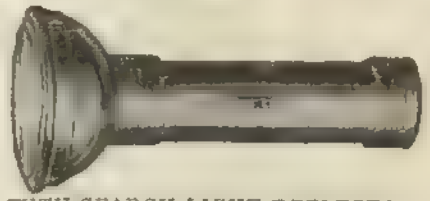
MINER'S BABY FLASH LIGHT
Fiber or Nickel Case
Fibre Case

No. 6787 Fibre Case 5½x1¾ complete $2 15
Renewal Radio Battery No. 1029 45
Renewal Mazda Bulb No. 520 28
No. 6787 [illegible] $2 [illegible]
Renewal [illegible] No. 1029 .45
Renewal Mazda Bulb No. 520 .28

FLASH LIGHT QUOTED "COMPLETE"
INCLUDE
CASE, BATTERY AND BULB

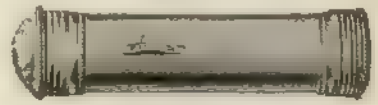
GOLD MEDAL NICKEL-PLATED NON SHORT-CIRCUITING FLASH LIGHTS

No. 6761 [illegible] complete $2 [illegible]
Renewal Radio Battery No. 1029 45
Renewal Mazda Bulb No. 520 28



WITH SEARCH LIGHT REFLECTORS

No. 6762—Size 1½x6½ inches complete $4 65
Renewal Radio Battery No. 1028 .45
Renewal Mazda Bulb No. 540 .28
No. 6763 [illegible] $5 05
Renewal Radio Battery No. 1027 62
Renewal Mazda Bulb No. 543 28



No. 6764—Size 1½x6½ inches, complete 2 50
Renewal Radio Battery No. 1028 45
Renewal Mazda Bulb No. 540 28
No. 6765—Size [illegible] inches, complete $2 95
Renewal Radio Battery No. 1027 62
Renewal Mazda Bulb No. 543 28

WITH MINER'S REFLECTORS

No. 6765—Size 1½x8½ inches, complete $3 35
Renewal Radio Battery No. 1028 45
Renewal Mazda Bulb No. 540 28
No. 6766—Size 1½x8½ inches complete $4 05
Renewal Radio Battery No. 1027 62
Renewal Mazda Bulb No. 543 28

TWO-CELL

No. 3434—Size ¾x1⅛x2¼ inches, complete $1 65
Renewal Radio Battery No. 1042 .45
Renewal Mazda Bulb No. 535 28
No. 3435—Size ¾x1⅛x3¼ inches, complete $1 65
Renewal Radio Battery No. 1040 45
Renewal Mazda Bulb No. 535 28

THREE-CELL

No. 3436—Size ¾x2⅛x3¼ inches, complete $2 10
Renewal Radio Battery No. 1041 55
Renewal Mazda Bulb No. 536 28
No. 3437—Size ¾x2⅛x3¼ inches, complete $2 50
Renewal Radio Battery No. 1040 55
Renewal Mazda Bulb No. 536 .28

Swage Blocks

Cast Iron Swage Blocks

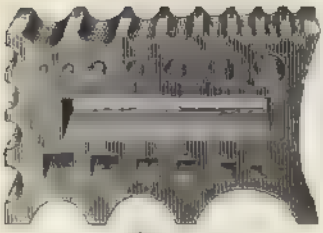


Fig. 973

Shape of No. 0

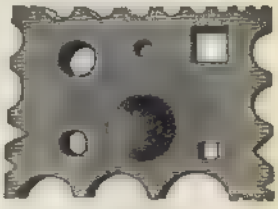


Fig. 974

Shape of Nos. 1, 2 and 3

Fig. 975

Shape of No. 0½

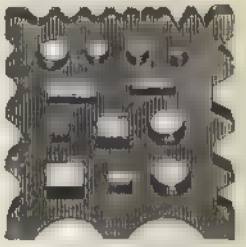


Fig. 976

Shape of Nos. 1½, 2½ and 3½

Made of strong iron, cast smooth and accurate to pattern

Price . per pound .....

Western Chief Countershafts

For Pressure Blowers, Etc.

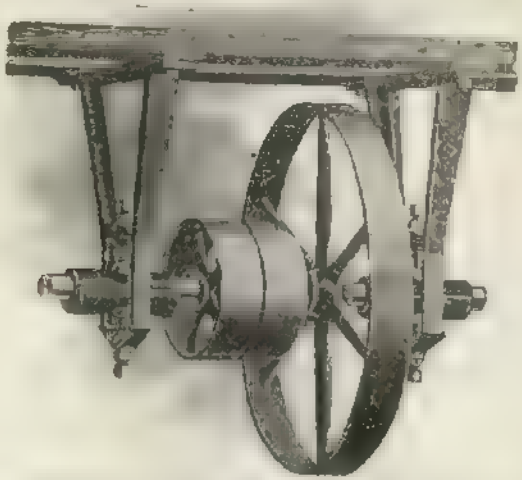


Fig. 97

Size	Driving Pulleys		Tight and Loose Pulleys		Diameter of Shaft Inches	Weight Pounds	Price Each
	Diameter Inches	Width Inches	Diameter Inches	Width Inches			
P 1	$10\frac{3}{4}$	$2\frac{1}{2}$	4	2	$\frac{7}{8}$	50	$ 8 00
P 3	14	$2\frac{3}{4}$	6	$2\frac{1}{2}$	$1\frac{1}{8}$	60	12.00
P 5	18	$3\frac{1}{2}$	7	$3\frac{3}{4}$	$1\frac{1}{8}$	75	16 00

Fig. 97a

Western Chief Cast Iron Blast Gates

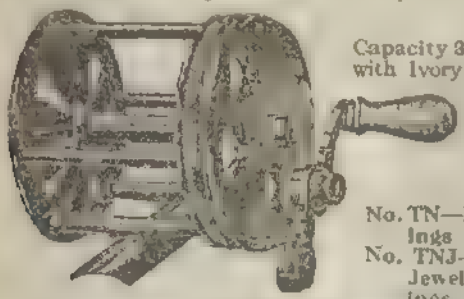
Outside Diameter Inches	Weight Pounds	Price Each
$2\frac{1}{2}$	3	$1 25
3	5	1 50
4	6	1 75
$4\frac{1}{2}$	$9\frac{1}{2}$	2 00
5	11	2 25
6	15	2 50
$7\frac{1}{2}$	$18\frac{1}{2}$	3 25
8	23	3 50

FISHING REELS

DOUBLE MULTIPLING

TALBOT STAR

Best Quality German Silver Frame; French Gray Finish; Spiral Gears Cut from Hand-Drawn Brass Rod; Steel Pinions; Studs and Pivots Hardened and Oil Tempered; Box Pattern Head; Steel Sliding Click on Front Plate; Screw-off Caps; All Parts Nicely Milled, Knurled and Finished.



NIANGUA

Capacity 30 Yards; Balance Handle with Ivory Grasp; Back Sliding Steel Click; Diameter of Plates 2 in.; Length of Spool [illegible] in.; Actual Weight each 8 ozs.; Weight per Dozen 6 lbs.

	Per Dozen	
No. TN—Pivot Bearings	$288 00	192.00
No. TNJ—Garnet Jeweled Bearings	360.00	240.00

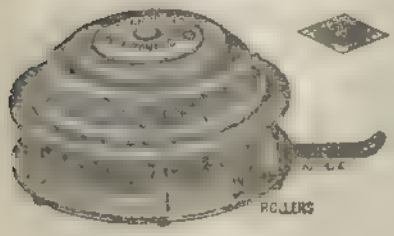
Twelfth Dozen in a Box

Capacity 100 yards; Balanced Handle; White Pearl Ivory Grasp; Frame Absolutely Rigid; Bars Accurately Turned in Lathe and Tested; Back Sliding Steel Click.

Per Dozen

No. S—Diameter of End Plates 1⅝ inches; Length of Spool 1⅝ inches; Diameter of Spool Ends 1½ inches; Weight per Dozen 6 lbs. **$108 00**

Twelfth Dozen in a Box



★DIAMOND AUTOMATIC

For Fly Fishing

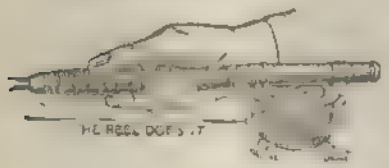
Mechanical Features

A decided improvement in Automatic Reels: Mechanism is very simple, and not likely to get out of order; Main shaft is of carbon Steel; substantial in size and runs in German Silver Bearings.

Spring is of the finest tempered Steel: All working parts are enclosed.

Anyone can take this reel apart and put it together in less than five minutes.

Reel fully guaranteed.



Desirable Features

This reel has an exclusive feature in a Safety Winding Spring, which allows the spring to be wound up at any time when line is in or out, by turning the milled spring box, without any danger of overwinding.

Spool has friction release which allows stripping of spool under all conditions.

Spool is fitted with safety release, which allows the spool to be run in at any speed without any fear of injuring the mechanism.

The line is guided by metal **Rollers**; This prevents the line from being injured and worn, as is the case of all other [illegible]

Will Wind 60 Yards of Line with One Winding of the Spring.

General Features

Reel can be used on reel-seat above or below; Particularly desirable for brook trout or fly fishing, where the line has to be lengthened and shortened so many times in fishing around brush, etc. A fish once hooked can never get any slack line if the finger is kept on the brake controller or the brake controller is pushed into the slot and kept out of action; The Reel will then do the rest without the use of the little finger; Of course, the spring is not supposed to be strong enough to reel in a large fish of its own accord; The rod is supposed to do this by raising the tip of the rod (which brings up the line,) then letting it back again quickly, which gives the Reel the slack line to take up, and this it will do before the fish can take it; [illegible]

Aluminum; Satin Verde-Bronze [illegible] Finish; Best Quality Tempered Steel Spring; Hard Brass and Steel Working Parts; Fully Guaranteed.

Per Dozen

No. DA—Capacity 100 yards No. 5 Line; Diameter of Spool 3 inches; Width of Spool ¾ inch; Actual Weight Each 7½ ozs.; Shipping Weight per Dozen 9 lbs. $90 00

Twelfth Dozen in a Box

FISHING REELS

MARTIN AUTOMATIC

For Fly Fishing

The Spring Drum is made from a single piece of Aluminum reinforced by a Brass Shell. The Ends of the Main Spring are drawn to the proper temper to prevent Breakage.

The Rim is of Hard Brass and encircles Drum of Reel in Final Assembling.

The Line Spool is made from two Brass Discs joined together by six Brass Posts.

The Reel Seat or Saddle is straight and of such length to insure a secure footing for the reel on the Rod.

The Friction Clutch maintains the same friction at all times.

The Lock Brake is hung on the same bearing that carries the brake shoe and brake shoe housing lever.

The Secondary Gear runs on a hardened Steel Bearing.

The Brake Shoe and Brake Housing Lever are hung on a single bearing which forms a rigid support.

The Throw Off sustains the tension of the Main Spring when wound and allowing the release of the Spring when not in use. Made of a single piece of Brass.

The Bearings are Bronze on Steel or Hardened Steel on Hardened Steel.

Per Dozen

No. MA1—Capacity 75 feet, diameter of Spool 3 inches, Width of Spool ⅛ inch; Weight each 11 ozs. **$84 00**

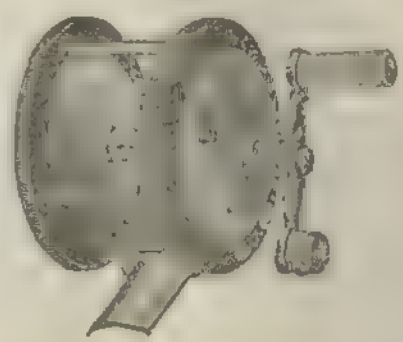
No. MA2—Capacity 90 feet, Diameter of Spool 3 inches; Width of Spool ⅝ inches; Weight Each 12½ ozs. **90 00**

No. MA3—Capacity 150 feet, Diameter Spool 3 inches, Width of Spool ¾ inch; Weight Each 14 ozs.; One in a Box **96 00**

★DIAMOND BRAND

DOUBLE MULTIPLYING

★Ultra Casting—Jeweled



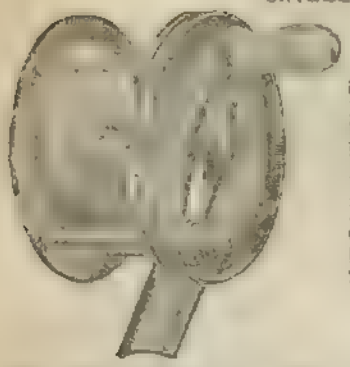
Fancy Hard Black Rubber Plates Reinforced with **Solid** Brass Flange, Nickel Plated and Polished; Brass Spool Nickel Plated and Polished; Steel Axles Running in Hard Brass Bearings; Hard Bronze Cut Gear; Steel Cut Pinion; All Housed in Recessed Cut in Rubber End Plate; Brass Balance Handle with Ivory Thumb Piece; Back Sliding Steel Click; No Drag; **Large Ruby Jeweled Oil Caps;** Knurled; All Parts Screwed.

Per Dozen

No. UTJ—Capacity 60 Yards; Diameter of Plates 2¼ inches; Length of Spool 1¼ inches; Actual Weight Each 6 ozs.; Shipping Weight per Doz. 4 ½ lbs. **$50.00**

Twelfth Dozen in a Box

FISHING REELS
★DIAMOND BRAND
SINGLE ACTION

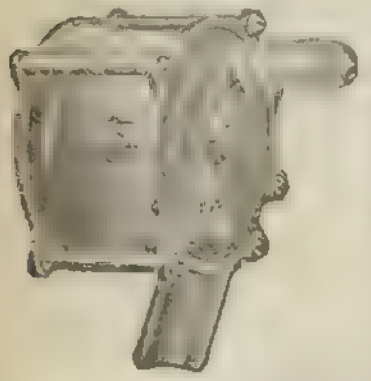


★TRIUMPH

All Brass, Nickel Plated and Polished; Plates and Spool Accurately Machined from Solid Brass Ba[illegible] Line [illegible] Running in Hard [illegible] Handle with White Ivo[illegible] Piece; Oil Cap; Back Shoing Steel Click; Knurled Discs and Oil Cap; Easiest Running and Finest Finished Single Action Reel Made.

Per Dozen

No. TT60—Capacity 60 Yards; Diameter of Plates 2⅛ inches; Length of Spool 1 inch; Weight per Dozen 5½ lbs $27 00
Twelfth Dozen in a Box



★DIAMOND TROUT

All Brass, Nickel Plated and Polished; Raised Pillars; Steel Axles Running in Hard Brass Hubs; Balance Handle with Ebony Thumb [illegible] Oil Cap; Back Sliding Steel [illegible] All Parts Screwed; Knurled Oil Cap; Bearings are Independent and are Accurately Aligned with [illegible] Spool Shaft; Free Running and Noiseless.

Per Dozen

No. DT40 — Capacity 40 Yards; Diameter of Plates 2¼ inches; Length of Spool 1 inch; Weight per Dozen 4 lbs $21 60
Twelfth Dozen in a Box

SINGLE ACTION SKELETON

Made of [illegible], [illegible] Runnin[illegible] The Bearings are Reinforced at Wearing Points; Perfectly C[illegible] Phosphor Bronze Spring Attached by S[illegible] Spool insures the Line Drying Quickly; Winds the Line as Speedily as a Quadruple Reel; Reel can be taken apart by simply Removing One Screw.

Per Dozen

No. 200—Capacity 120 yds., Diameter of Spool 3 inches; Width of Spool 1⅜ inches; Actual weight each 6 ozs.; Shipping weight per Dozen 6 lbs. $24 00
Twelfth Dozen in a Box

MEISSELBACH EXPERT

[illegible] Reel are [illegible] Patented Guard for use in "playing" a [illegible] from the most Delicate [illegible] of the Thumb upon [illegible] Extra Hard Spring Metal, so that [illegible] Accident it will always Re[illegible] Sufficient to pre[illegible]; New Back Sliding Steel Click [illegible] easily taken apart and reassembled.

FEATHER LIGHT

Re[illegible] Become Lost; Removable Spool; Back Sliding Double-pointed [illegible] Ebony Handle; Easily Taken Apart and [illegible]

For Trout Fishing; Capacity 40 Yards D[illegible]er of Spool 1⅝ inches; Width ¾ inch; Actual Weight Each 2⅜ ozs.; Shipping Weight per Dozen 2¼ lbs.

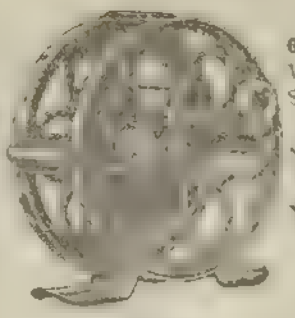
Per Dozen

No. 250—Brass; Nickel Plated.... $33 60

No. B250—Bronze; Gun Metal Finish.. 33 60

Twelfth Dozen in a Box

FISHING REELS
★DIAMOND BRAND
SINGLE ACTION, SKELETON

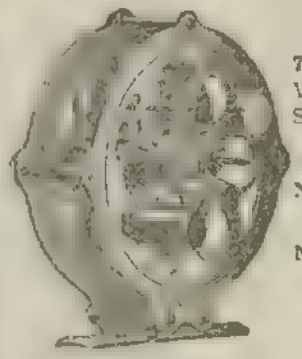


For Trout or Bass Fishing; Capacity 60 Yards; Diameter of Spool 2¼ inches; Width ¾ inch; Actual Weight Each 3 ozs.; Shipping Weight per Dozen 3 lbs.

Per Dozen

No. 260 Brass, Nickel Plated $30.00

No B260 Bronze; Gun Metal Finish 36 00
Twelfth Dozen in a Box

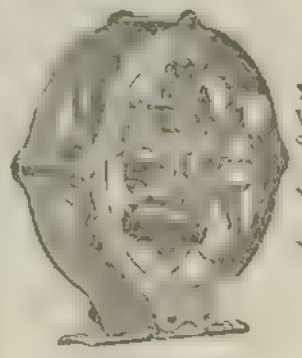


For Trout or Bass Fishing; Capacity 70 Yards; Diameter of Spool 2¼ inches; Width ¾ inch; Actual Weight Each 4 ozs.; Shipping Weight per Dozen 3¾ lbs.

Per Dozen

No. 270—Brass; Nickel Plated.... $48.00

No. B270—Bronze; Gun Metal Finish 48 00
Twelfth Dozen in a Box

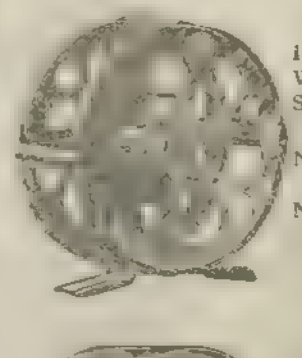


For Heavy Bass Fishing; Capacity 80 Yards; Diameter of Spool 2¼ inches; Width 1 inch; Actual Weight Each 4½ ozs.; Shipping Weight per Dozen 4 lbs.

Per Dozen

No. 280—Brass; Nickel Plated.... $54 00

No. B280—Bronze; Gun Metal Finish 54 00
Twelfth Dozen in a Box

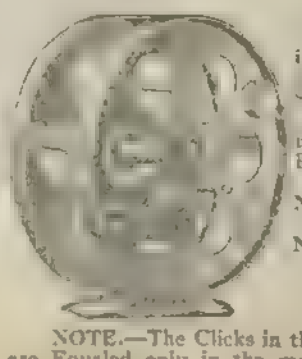


For Trolling and Bass Fishing; Capacity 100 Yards; Diameter of Spool 3 inches; Width 1 inch; Actual Weight Each 5 ozs.; Shipping Weight per Dozen 5 lbs.

Per Dozen

No. 290—Brass; Nickel Plated.... $54.00

No. B290—Bronze; Gun Metal Finish..... 54.00
Twelfth Dozen in a Box



For Trout or Bass Fly Fishing; Capacity 60 Yards; Diameter 2¼ inches; Width [illegible] inch; Actual Weight Each [illegible] ozs.; Shipping Weight per Dozen 4½ lbs. Very Light Weight; Removable Spool Back Sliding Steel Click and Steel Spindle Polished Ebony Handle; Best Workmanship

Per Dozen

No. 19—Brass; Nickel Plated..... $48 00

No. B19—Bronze; Gun Metal Finish..... 48 00
Twelfth Dozen in a Box

NOTE.—The Clicks in these Reels are made of Hardened Steel and are Equaled only in the most Expensive Reels.

Tandem Rollers

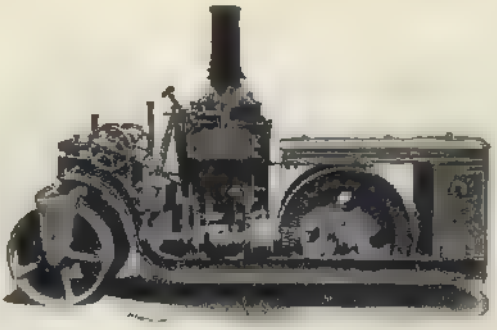


Fig 287

2½ tons, 3 tons, 5 tons, 6 tons, 8 tons, 9 tons

Iroquois Tandem Roller catalogue and detail specifications will be sent on request.

Macadam Rollers

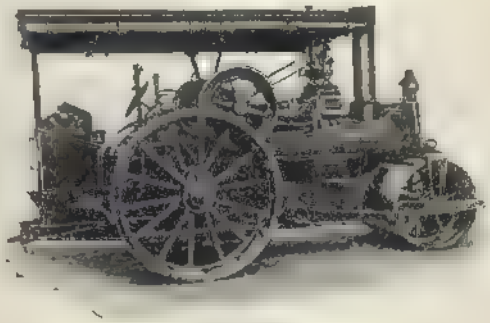


Fig 288

10 tons, 12 tons, 15 tons

Iroquois Macadam Roller catalogue and detail specifications sent on request.

Asphalt Mixers

Fig. 289

Standard sizes, 9 cubic feet and 15 cubic feet carried in stock although we are prepared to furnish 5 cubic feet, 7 cubic feet or 11 cubic feet sizes on order, with any arrangement described

Asphalt mixer, 9 cubic feet capacity, shipping weight 6200 pounds

Asphalt mixer, 15 cubic feet capacity, shipping weight 8900 pounds

Stone Dryers

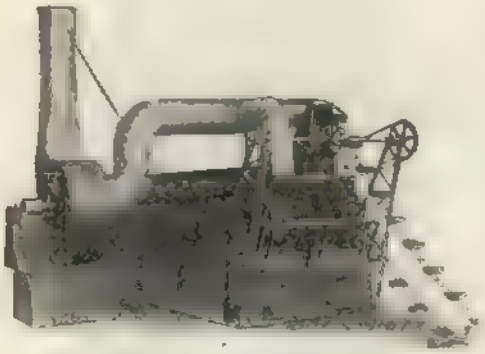


Fig. 290

Special dryers of smaller or larger capacities, with various size drums, are supplied to meet special conditions, arranged for burning either coal or oil as fuel.

Literature describing Iroquois Dryers will be sent on request

STORE LADDERS.

THE MILBRADT.

Made to fit any kind of shelving; good oak lumber, handsomely finished; perfectly safe as they cannot jump the track. Take little space; run noiselessly and easily; extra wide shelf at top. All iron work on ladders, as well as supporting brackets, is malleable and aluminum bronzed.

How to Measure—Give height from floor to top of base shelf, width from front of base shelf to front edge of upright, height from base shelf to top of shelf to which track is to be fastened

No. 1. No. 2. No. 3.

For wood track only.

Each

No. 1—Bent; has paper filled wheels running on steel track; fastened to shelving with rubber wheels against base shelf.....$14.00

No. 5—Straight; otherwise same as No. 1..... 13.00

No. 4—Straight; same as No. 1 or No. 5, used on shelving without base shelf and provided with swinging arms... 13.00

No. 2—Bent; floor ladder; used where shelving is not strong enough to use other styles; top runs on wood track fixed to shelving, but weight of ladder is on wheels resting on floor; adjusts itself to uneven floor; uses wood track only..... 14.00

No. 3—Bent; runs on steel track; fitted with swinging arms for narrow shelf base; ladder made from oak and fitted with running parts except track brackets..... 14.00

EXTRAS.

Per Foot

Wood Track—For No. 2 ladders..... $0.20

Regular Aluminum Bronzed Track—With brackets..... .35

Extra Strong Aluminum Bronzed Track—With brackets . .40

A strong store ladder for use when shelving is not so arranged that ladders can be conveniently applied to it. Runs on steel track; top wheels are paper filled; lower wheels are rubber tired. Ladder runs noiselessly and easily. Made from oak, natural finished and varnished. Fully equipped with a complete set of fixtures (except track and brackets).

How to Order—Give exact height from floor to ceiling, also state number of feet of steel track wanted.

Each

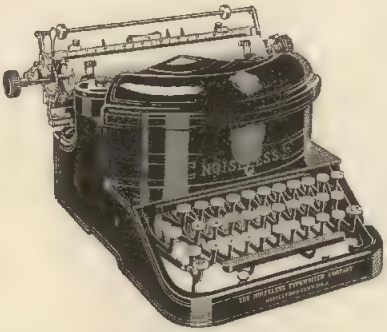
No. 12—Straight; runs on 1-inch steel track and rests in strong artistic brackets which are screwed to ceiling; furnished with complete set of fixtures.....$13.00

Per Foot

No. T12—Track; for above ladder $0.35

This cut shows part of top fixture for ladder No. 2; it also shows special hardwood track that it runs on only.

Track and Brackets are not furnished with ladder and must be ordered extra.



The Noiseless Typewriter

Increases productive power by giving the mind a fair chance.

Hence at a time of world crisis it is the helpful servant of those who with intense effort are bending their energy to accomplish great results.

Readers of this Magazine will be interested to learn that the Noiseless Typewriter is used exclusively in the office of the American City.

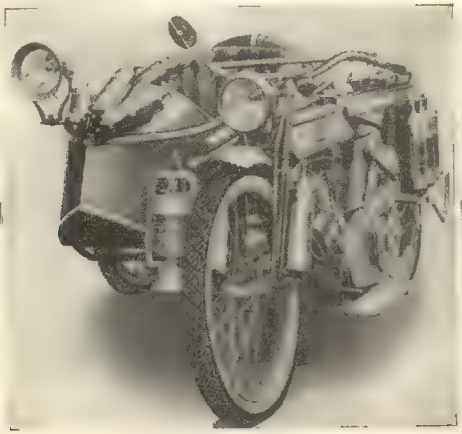
Send for literature and an impressive list of users; or better still, ask for a demonstration and test at your own office.

The Noiseless Typewriter Company

253 BROADWAY, NEW YORK

Other Offices in

CHICAGO
PHILADELPHIA
BOSTON
DETROIT
CLEVELAND
SAN FRANCISCO
LOS ANGELES
and MONTREAL



Speed to Fires
ON
Firestone Tires

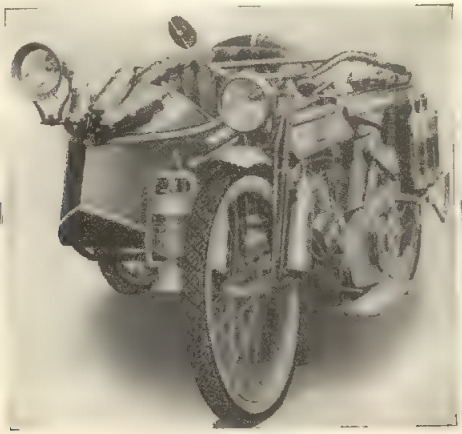
FIRESTONE Tires carry this Thor machine completely equipped at high speeds safely, dependably. Extra strain and extra weight can't stop Firestone Tires. They perform splendidly in the most difficult service.

Firestone has proved Most Miles per Dollar on all kinds of fire apparatus, heavy and light. Call on the Firestone man of your city or write us for facts about complete line.

FIRESTONE TIRE AND RUBBER COMPANY
Akron, Ohio—Branches and Dealers Everywhere

Firestone

PNEUMATIC OR SOLID TIRES FOR
HORSE OR MOTOR-DRIVEN VEHICLES



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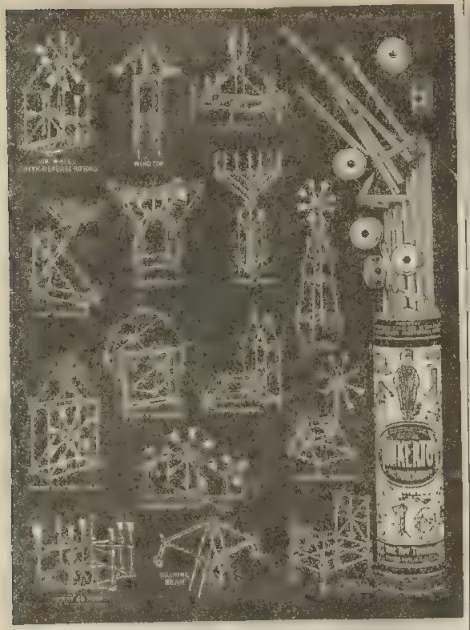
FIRESTONE TIRE AND RUBBER COMPANY
Akron, Ohio—Branches and Dealers Everywhere

Firestone

PNEUMATIC OR SOLID TIRES FOR
HORSE OR MOTOR-DRIVEN VEHICLES

CONSTRUCTION TOYS

TINKER TOY



Improved, Refined, and Better than Ever. The Original Construction Toy, Founded on Exact Mathematical Principles. Consists of 73 Smooth, Hardwood Rods and Spools, without Paint or Varnish, 10 Cardboard Propeller Blades, and Book of Instructions; Packed in the Famous Tinker-toy Laminated Fibre Mailing Cartridge, 12 inches high; Weight 1 pound. One Set Builds Hundreds of Interesting Motion Toys, Ranging in Size from One to Four Feet. Each Set is a Complete Unit; with Two or More Units, very large Mechanical and Architectural Figures can be Made; There is no Limit to the Possibilities. A New Toy can be made Every Day in the Year, all at the Modest Cost of the Original Set. Per Dozen

No. 1180—Weight per Dozen, Packed, 14 lbs. **$8 00**

One Dozen in a Shipping Carton

TINKER DANCING TOYS

MISS TILLY TINKER

A Revolving, Dancing Wooden Lady—Large Assortment of Bright Colors, No Attention Paid by Children. Will Run Down Stairways and Backward Gracefully, Describes Figure Eights and Leaps Over Low Objects. It Never Seems to Stop. Miss Tilly Tinker's Beauty, Grace, Color and Poetry of Motion Form an Irresistible Attraction to Every Toy Purchaser. A Number Placed in Show Window Can Be Kept in Constant Motion by an Electric Fan, all Discerning Children Attracted, and Drawing a Large Crowd of Fascinated Onlookers.

Each Packed in a Slide Cover Wood Box 4x4x9½ inches; Weight 1 lb.; Ready for Mailing when so Desired. Per Dozen

No. 1183—Height Over All 17½ inches; Shipping Weight per Dozen 15 lbs. **$12 00**

One Dozen in a Shipping Carton

TINKERPINS

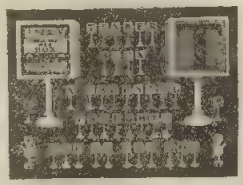
An Unusually Interesting and Fascinating Table Game for Family or Club. Can be Used at any Season, Time or Place where Good, Clean Amusement is Wanted. Packed Flat in a 2-lb. Box, Wrapped Ready to Mail, Express or Deliver; Put Together in a Few Moments; Size when Set Up, 4 ft. 8 in. Long. Consists of a Double Track Alley with Ten Pins at Each End. A Gyroscopic, Balancing Spinner that Travels Forward and Backward along the Rails, Automatically Setting Up the Ten Pins for the Next Opponent, and Registering the Count of the Pins Knocked Over in the Opponent's Alley; Spinner is Returned by Opponent's Play from the Opposite End. New Principles, Never Before Used in Any Game. More Fun than a Public Bowling Alley, with no Operating Expense, and All the Family Can Play. A Great Game for Parties; Complete and Easy Instructions, Showing how to Play Several Different Games Furnished with Each Set. Expert Play Comes with a Little Practice. 'It'l Skill that Wins in Tinkerpins."

Per Dozen

No. 1181—Weight per Dozen, Packed, 26 lbs. **$16.00**

One Dozen in a Shipping Carton

TINKERBLOX



123 Natural Wood Pieces for Constructing 40 Little Letter Men, Each One 3 inches Tall with a Different Alphabet Character or Number on Each Side so Arranged that Hundreds or Thousands of Different Words, Sentences and Ideas can be Formulated by the Child, Parent or Instructor. A Very Interesting and Original Book Entitled "Tinker Tales for Tiny Tots" Accompanies Each Set in Which the Primary Elements of Education are Combined with the Use of Tinkerblox in Such a Fascinating Way, that Learning Comes as the Result of Play. Interesting Games can also be Played, in which the Older Boys and Girls, Parents or Friends will Find Intense Amusement.

The Wooden Boxes in which Tinkerblox are Packed Each Contain a Base and Pedestal for Use in Combination with the Box, Thus Forming a Giant Reproduction of the Small Blox. For Dealers' Use, 12 of These Boxes Are Packed in a Shipping Case. Each Box Contains a Different Letter to Make Up the Whole Words "TINKERBLOX 50c." The Wonderful Advertising Value of Setting Up 12 of These Boxes in Line for Window or Store Display Can Be Readily Appreciated. Sentences Made Up of the Small Letter Men for Use in Conjunction with Such Display Make Tinkerblox a Self-Demonstrating and Self-Selling Item, which is an Important Factor in the Dealers' Favor.

The Sets, of Course, Are Units, and by Putting Two or More Together, There is No Limit to the Accomplishment for Either Play, Instruction or Advertising Purposes.

Per Dozen

No. 1182—Weight per Dozen, Packed for Shipment 15 lbs. **$8 00**

One Set in a Box, One Dozen Sets in a Package

GAMES IN ASSORTMENTS
TIP TOP SERIES

HOME HISTORY GAME

That stirring picture, "The Spirit of '76," illustrates this label, and in playing the game children will learn many historical facts.

GYPSY FORTUNE TELLER

Here is a good fortune-telling game which will predict a good many probable and sensible incidents and a lot of others put in just for fun. Any number can have their fortunes told at the same time, and, no two will be exactly alike. It has all the fascination of Gypsy fortune telling, and the label bears a picture of one of the dusky horde, bracelets, bangles and all.

AUTHORS

William Shakespeare in deep meditation graces the label on this box, and before him burns the lamp of knowledge. On the cards are good portraits of Washington Irving, Oliver Wendell Holmes, Henry W. Longfellow and various other more or less modern authors. It is a thoroughly satisfactory set in every particular.

DR. BUSBY

Here we find the genial doctor pictured on his way to visit a sick patient and on the cards we find pictures of his numerous relatives and friends. The card designs are very funny, and finely lithographed in several colors. Dr. Busby is a game that never grows old, and this edition is exceptionally attractive for the price.

ANAGRAMS

There is no easier way for a child to learn the spelling of words than by playing Anagrams. In matching the letters he learns almost unconsciously to spell many simple words which make up the spelling lesson in school. This edition is provided with a very liberal quantity of letters printed in plain bold type on a good quality of board. The new box label is bright and attractive.

JACK STRAWS

These Straws are well made and furnish a good assortment at a low price. Each box contains a liberal quantity of the straws, and the label is very cleverly illustrated with a picture of the "straw man," or scarecrow.

LOST HEIR

In this game, police of many cities, represented by the players, make thorough search for the "lost heir." Ofttimes a wrong clue is followed and when the supposed lost heir is captured it proves to be the "wrong boy"—a counter card to the "lost heir."

PETER CODDLE

On this label our old friend Coddle is taking a ride down Broadway on a skittish pig, chased by a frantic policeman. The sixteen-page narrative is bright and up-to-date, and the cards of missing words are designed to make the story as ridiculously funny as possible.

MERRY-GO-ROUND

An especially novel game played with ninety cards representing parts of a merry-go-round, from the whistle to the attendant. "Brass Rings" and "free rides" are here and so are "accidents." New and interesting method of play. Every child will be enthusiastic over this clever little game.

CINDERELLA

The old story of Cinderella told by cards in a unique game. Here one may renew the acquaintance of the fairy godmother, the royal prince, the beautiful Cinderella and other characters. New designs lithographed in colors make the cards for this game unusually attractive.

SNAP

All kinds of snaps are represented in this game, which in itself is full of snap. The cards are lithographed in bright colors, and the box label is new and "snappy." A good edition of a popular game at a low price.

Per Dozen

No. 205—Assorted Games as Described Above; Boxes 6¾x5½ Inches with Brilliantly Colored Gold Border Labels, Enameled Finish; Weight Per Dozen 4½ lbs. **$1 80**

One Dozen Assorted in a Package.

GAMES IN ASSORTMENTS
GOLD SERIES

MODERN AUTHORS

Fine half-tone portraits of present-day authors reproduced on enameled, round cornered cards. Box is covered with blue embossed paper stamped in two colors of ink leaf.

OLD MAID

A fine set of enameled, round cornered cards, lithographed in colors. Box covered with dark red embossed paper, with labe stamped in black and white ink leaf.

JACK STRAWS

A fine set of plain uncolored "straws" put up in beautiful embossed box. The straws are of a variety of unique forms and each one numbered. The box is a rich dark green, stamped with yellow leaf.

PETER CODDLE

This old standard game in its new dress is undoubtedly the most attractive edition of Peter Coddle on the market. The box is covered with royal purple embossed paper, stamped in black and white ink leaf.

KIT CAT

A new and clever card game, consisting of a pack of fifty-two cards; our sets of ten cards each, numbered from one to ten, each set having, a picture of a cat upon it.

FUNNY CONVERSATION CARDS

These cards contain comical questions and answers. The gentleman reads the question cards and the lady those with the answers. The cards are shuffled and the top card taken each time. This makes a great variety to the play and brings out some funny and often astonishing replies. Some hilarious conversation is the result.

WIDOW McCARTYS PIG

This game is a fun producer for a whole roomful. It is very easy to learn and will prove a great game for a party of either young or old people.

GET BUSY

A very laughable game with an original method of play. Each card tells what a player is to do, that is, to make some cry or sound to imitate an animal. When the signal is given the player who is first heard wins.

DOWN THE PIKE

A reading game that has made itself popular all over the country. No "Brain Fatigue" in this—all fun and jollity. It's learned quick and played fast. Any number can play.

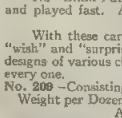
WIZARD FORTUNE CARDS

With these cards one can read the past, present and future, and a "wish" and "surprise" are also provided for. The cards bear illustrated designs of various characters and objects which influence the fortunes of every one.

Per Dozen

No. 209—Consisting of the Above Games; Size 5½x7¼ inches. Weight per Dozen 6 lbs. **$4.50**

Assorted, One Dozen in a Package.



SNAP SERIES

LOTTO

This game has wooden markers in four colors, and numbers printed in colors on card, to be cut up. The Lotto cards are also printed in colors. For two to four players.

ANAGRAMS

This game, which can be played by any number of players from two to six, consists in the formation of words by the use of small cardboard tablets, each having on one side a single letter.

AUTHORS

Some of the authors represented in this set are: Irving, Cooper, Burns, Dickens, Scott, etc., and the portraits are as good as ordinarily found in much higher-priced editions

JACK STRAWS

The straws in this box are of four colors, and of different shapes.

SNAP

These cards are embellished with original picture designs and printed in colors.

PETER CODDLE

An abridged version of Peter Coddle's Trip to New York.

LITTLE RED MEN

A game that will appeal strongly to boys. The cards bear pictures of Indians, Canoes, Wigwams, Horses, Tomahawks, and other things associated with Indian life, lithographed in colors.

OLD MAID

Nineteen picture cards, printed in colors, with attractive designs.

WILD FLOWERS

Pictures of many beautiful flowers in natural colors make this a very attractive game.

DR. BUSBY

The lithographed label on this box shows Dr. Busby selling his famous remedies at a country fair

MOTHER GOOSE

A simple and entertaining game for young children with cards picturing Jack Horner, Little Boy Blue, Cinderella, Red Riding Hood and other Mother Goose characters. Best in Full Packages

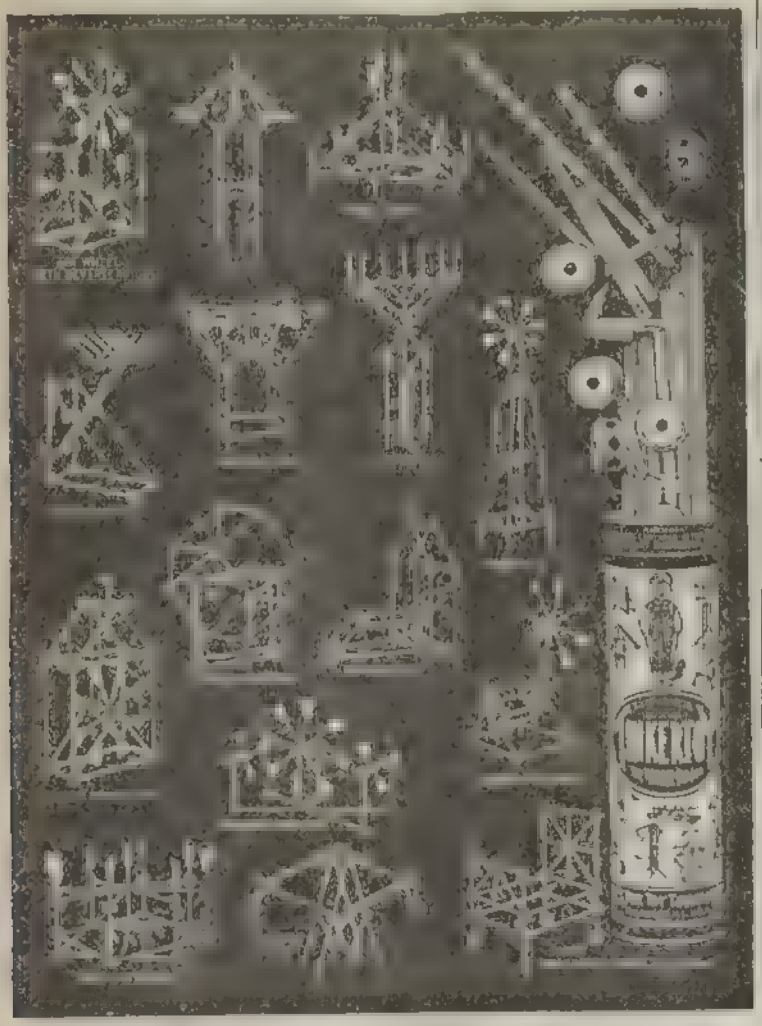
Per Dozen

No. 202—Assorted Games, as Described Above, Boxes 4¾x3¾ Inches, with Brilliantly Colored Gold Border Label, Enameled Finish, Weight Per Dozen 3 lbs. **$0 92**

One Dozen Assorted in a Package.

CONSTRUCTION TOYS

TINKER TOY



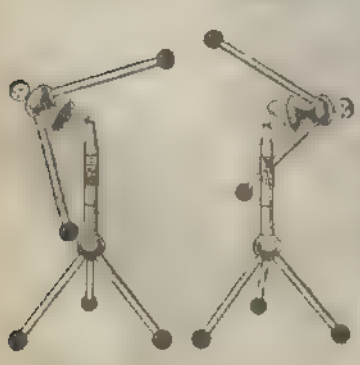
[illegible] Better than Ever. The Original Construction Toy, [illegible] Material. Complete, Consists of 7 [illegible] Hardwood Rods, with Natural Finish or Varnish, 10 [illegible] Tinker Blocks and Three Different Kinds of Tinker Wheels, 12 inches High; Weight 1 pound [illegible] Interesting Motion Toys, Ranging in Size [illegible] Each Set is a Complete Unit with Two or More [illegible] Mechanical and Mobile Figures Can Be Made, [illegible] Set. Per Dozen

No. 1180 Weight per Dozen, Packed, 14 lbs..... **$8.00**

One Dozen in a Shipping Carton

TINKER DANCING TOYS

MISS TILLY TINKER



A Beginning Dancing Wooden Lady, Gorgeo[illegible] Colors; Very Attractive, Nicely Balanced; Whirls and Bows Forward, Sideways and Backward, Gracefully Describes Figure Eights and [illegible] Miss Tilly Tinker's Beauty, Grace, Color and Poetry of Motion Form an Irresistible Attraction [illegible] Purchaser. A Number Placed in Show Window Can Be Kept Going [illegible] Motor, Electric Fan, [illegible] Interior Actions, and Draws a Large Crowd of Interested Onlookers.

Each Packed in a Slide Cover Wood Box 3x3x9½ inches; Weight 1 lb.; Ready for Mailing when so Desired. Per Dozen

No. 1183 [illegible] Shipping Weight per Dozen 15 lbs..... **$12.00**

One Dozen in a Shipping Carton

TINKERPINS

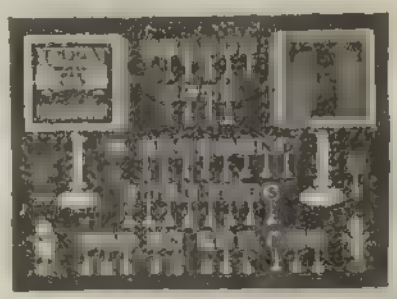
An Unusually Interesting and Fascinating Table Game for Family or Club. Can Be Played Any Season, Time or Place where Good Clean Entertainment is Wanted. Packed Flat in a 2-lb. Box, Wrapped Ready to Mail, Express or Deliver; Put Together in a Few Moments; Size when Set Up [illegible] 8 in. Long. Consists of a Double Track Alley with Ten Pins at Each End. A Gyroscopic, Balancing Spinner that Travels Forward and Backward along the Rails, Automatically Setting Up the Ten Pins for the Next Opponent, and Registering the Count of the Pins Knocked Over in the Opponent's Alley; Spinner is Returned by Opponent's Play from the Opposite End. New Principles Never Before Used in Any Game. More Fun than a Public Bowling Alley, with no Operating Expense, and All the Family Can Play. A Great Game for Parties, Complete and Easy Instructions Showing How to Play Several Different Games Furnished, with Hints for Expert Play. Comes with a Little Practice, "It's Skill that Wins in Tinkerpins."

Per Dozen

No. 1181—Weight per Dozen, Packed 20 lbs..... .....**$16.00**

One Dozen in a Shipping Carton

TINKERBLOX



123 Natural Wood Pieces for Constructing 40 Little Letter Men, Each One 3 inches Tall with a Different Alphabet Character or Number on Each Side so Arranged that Hundreds or Thousands of Different Words, Sentences and Ideas can be Formulated by the Child, Parent or Instructor. A Very Interesting and Original Book Entitled "Tinker Tales for Tinker Toys" Accompanies Each Set and Shows When the Different Elements of Education are Combined with the Use of Tinkerblox in Such a Fascinating Way, that Learning Comes as the Result of Play. Interesting Games can also be Played in which the Older Boys and Girls, Parents or Friends will Find Interesting Amusement.

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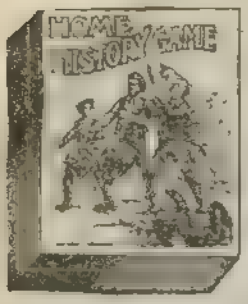
The Sets, of Course, Are Units, and by Putting Two or More Together, There is No Limit to the Accomplishment for Either Play, Instruction or Advertising Purposes

Per Dozen

No. 1182 Weight per Dozen Packed for Shipment 25 lbs. **$8.00**

One Set in a Box; One Dozen Sets in a Package

GAMES IN ASSORTMENTS
TIP TOP SERIES



HOME HISTORY GAME

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GYPSY FORTUNE TELLER

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There is no easier way for a child to learn the spelling of words than by playing Anagrams. In matching the letters he learns almost unconsciously to spell many simple words which make up the spelling lesson in school. This edition is provided with a very liberal quantity of letters printed in plain bold type on a good quality of board. The new box label is bright and attractive.

JACK STRAWS

These Straws are well made and furnish a good assortment at a low price. Each box contains a liberal quantity of the straws, and the label is very cleverly illustrated with a picture of the "straw man," or scarecrow.

LOST HEIR

In this game, police of many cities, represented by the players, make thorough search for the "lost heir." Ofttimes a wrong clue is followed and when the supposed lost heir is captured it proves to be the "wrong boy"—a counter card to the "lost heir."

PETER CODDLE

On this label our old friend Coddle is taking a ride down Broadway on a skittish pig, chased by a frantic policeman. The sixteen-page narrative is bright and up-to-date, and the cards of missing words are designed to make the story as ridiculously funny as possible.

MERRY-GO-ROUND

An especially novel game played with ninety cards representing parts of a merry-go-round, from the whistle to the attendant. "Brass Rings" and "free rides" are here and so are "accidents." New and interesting method of play. Every child will be enthusiastic over this clever little game.

CINDERELLA

The old story of Cinderella told by cards in a unique game. Here one may renew the acquaintance of the fairy godmother, the royal prince, the beautiful Cinderella and other characters. New designs lithographed in colors make the cards for this game unusually attractive.

SNAP

All kinds of snaps are represented in this game, which in itself is full of snap. The cards are lithographed in bright colors, and the box label is new and "snappy." A good edition of a popular game at a low price.

Per Dozen

No. 205—Assorted Games as Described Above; Boxes 6¼x5½ Inches with Brilliantly Colored Gold Border Labels, Enameled Finish; Weight Per Dozen 4½ lbs..... **$1 80**

One Dozen Assorted in a Package.

GAMES IN ASSORTMENTS
GOLD SERIES

MODERN AUTHORS

Fine half-tone portraits of present-day authors reproduced on enameled, round cornered cards. Box is covered with blue embossed paper stamped in two colors of ink leaf.

OLD MAID

A fine set of enameled, round cornered cards, lithographed in colors. Box covered with dark red embossed paper, with label stamped in black and white ink leaf.

JACK STRAWS

A fine set of plain uncolored "straws" put up in beautiful embossed box. The straws are of a variety of unique forms, each one numbered. The box is a rich dark green, stamped with yellow leaf.

PETER CODDLE

This old standard game in its new dress is undoubtedly the most attractive edition of Peter Coddle on the market. The box is covered with royal purple embossed paper, stamped in black and white ink leaf.

KIT CAT

A new and clever card game, consisting of a pack of fifty-two cards; our sets of ten cards each, numbered from one to ten, each set having, a picture of a cat upon it.

FUNNY CONVERSATION CARDS

These cards contain comical questions and answers. The gentleman reads the question cards and the lady those with the answers. The cards are shuffled and the top card taken each time. This makes a great variety to the play and brings out some funny and often astonishing replies. Some hilarious conversation is the result.

WIDOW McCARTYS PIG

This game is a fun producer for a whole roomful. It is very easy to learn and will prove a great game for a party of either young or old people.

GET BUSY

A very laughable game with an original method of play. Each card tells what a player is to do, that is, to make some cry or sound to imitate an animal. When the signal is given the player who is last heard wins.

DOWN THE PIKE

A reading game that has made itself popular all over the country. No "Brain Fatigue" in this. All fun and jollity. It's learned quickly and played fast. Any number can play.

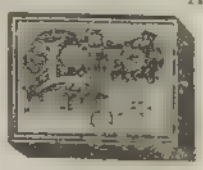
WIZARD FORTUNE CARDS

With these cards you can read the past, present and future, and a "wish" and "surprise" are also provided for. The cards bear illustrated designs of various characters and objects which influence the fortunes of every one.

Per Dozen

No. 209—Consisting of the Above Games; Size 5½x7¼ inches; Weight per Dozen 6 lbs..... **$1 50**

Assorted, One Dozen in a Package.



SNAP SERIES

LOTTO

This game has wooden markers in four colors, and numbers printed in colors on card, to be cut up. The Lotto cards are also printed in colors. For two to four players.

ANAGRAMS

This game, which can be played by any number of players from two to six, consists in the formation of words by the use of small cardboard tablets, each having on one side a single letter.

AUTHORS

Some of the authors represented in this set are: Irving, Cooper, Burns, Dickens, Scott, etc., and the portraits are as good as ordinarily found in much higher-priced editions.

JACK STRAWS

The straws in this box are of four colors, and of different shapes.

SNAP

These cards are embellished with original picture designs and printed in colors.

PETER CODDLE

An abridged version of Peter Coddle's Trip to New York.

LITTLE RED MEN

A game that will appeal strongly to boys. The cards bear pictures of Indians, Canoes, Wigwams, Horses, Tomahawks, and other things associated with Indian life, lithographed in colors.

OLD MAID

Nineteen picture cards, printed in colors, with attractive designs.

WILD FLOWERS

Pictures of many beautiful flowers in natural colors make this a very attractive game.

DR. BUSBY

The lithographed label on this box shows Dr. Busby selling his famous remedies at a country fair.

MOTHER GOOSE

A simple and entertaining game for young children with cards picturing Jack Horner, Little Boy Blue, Cinderella, Red Riding Hood and other Mother Goose characters. Less than Full Packages Per Dozen

No. 202—Assorted Games, as Described Above; Boxes 4¾x3¾ Inches; with Brilliantly Colored Gold Border Labels, Enameled Finish; Weight Per Dozen 3 lbs..... **$0.92**

One Dozen Assorted in a Package.

TINNERS' TOOLS

COMPOUND LEVER VEST POCKET SNIPS

Made of crucible steel, polished, suitable for 24 gauge metal and lighter, weight 5 oz.
No. 7L—Length 7 in., cut 1¼ in...Each $2 00
One Pair in a Box

DOUBLE CUTTING SHEARS

Forged from high grade steel, scientifically tempered and hardened, black handles and polished heads. Blades can be inserted in metal at any point. Carefully assembled to permit a joint of pipe to be cut with ease and accuracy, leaving the edges smooth and clean.

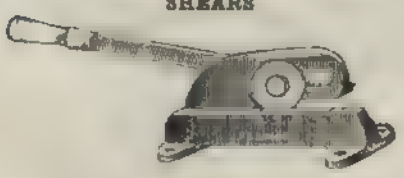
No. 22DC—Length 8½ in.....Each $2 25
One Pair in a Box

Double-Cutting Shears and Pipe Crimper
No. 2DC—Length 12¾ in.....Each $3.60
One Pair in a Box

SQUARE PIPE CRIMPER

Will contract or crimp the corners in square pipe, making assembling of square pipe joints a quick and easy operation, producing tight fitting joints and improving the quality and appearance of work.
No. 787—Length 11 inches.....Each $1 60
One in a package

CONTINUOUS ROLLING CUTTER SHEARS



Operated by a pinion lever engaging in a rack and cutting with the forward roll of the cutting disc.
No. 294—Length, over all including lever, 12 in., lower knife 2¾ in., weight 4 lbs., will cut No. 20 iron.....Each $12 00
No. 295—Length, over all including lever, 20 in., lower knife 3⅝ in., weight 6 lbs., will cut No. 16 iron.....Each $18 00

BENCH SHEARS, RIGHT-HAND CUT

Perfection

Forged steel, polished blades, japanned handles.

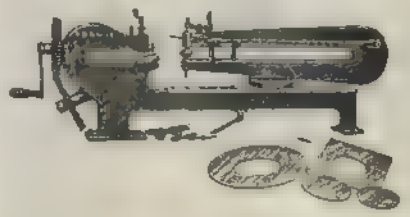
Bench shears, as regularly made, have a right-hand cut; that is, the lower blade is on the right side of the shears. Bench shears with a left-hand cut can be furnished when desired at an additional cost.

In ordering bench shears with a left-hand cut, it must be clearly stated on the order.

Nos.	00	0	1	2	3
Length, in.	46	42½	39	37	31
Cut, in	11½	10½	9	8¾	7⅝
Capacity, Iron, No	18	18	18	19	19
Each	$31.60	28 40	20 00	17 90	16.30

Nos.	4	5	6	Elbow 31	Elbow 32
Length, in	30	27	25	26	39
Cut, in	7⅝	6¼	5¼	4	6
Capacity, Iron, No.	20	21	22	18	16
Each	$14 80	12 10	11 10	13.20	24 20

RING AND CIRCULAR SHEARS



Perfection

A bench shear for cutting circles or internal rings and irregular curves. In circular cutting the blanks are clamped between rubber covered discs by means of a quick acting eccentric lever device, adjustable to uniform pressure preventing the work from slipping. The bed on which the tail piece slides is graduated in inches and fractions of inches for quick setting of tail piece for the size circle to be cut. The angular position of cutters insures clean cutting on inside and outside of circle.

Diameter of cutters 1⅝ in., clamping discs 2¼ in. Depth, cutting head to gauge 9⅜ in., cutting head to frame 10 in.

For No. 20 Iron and Lighter.

No. 298—Depth of circle arm 16¼ in., will circle from square blanks 3¼ 22 in., weight 195 lbs.....Each $95 00

No. 299—Depth of circle arm 30½ in., will circle from square blanks 3¼ to 42½ in., weight 290 lbs.....Each 116.00

PEXTO CIRCULAR SHEARS

For cutting outside circles, trimming or squaring tin plate, sheet iron, brass and copper. A polished graduated scale is attached to the bed for quick and accurate adjustment of the sliding arm. Fitted with quick acting eccentric lever, which clamps material between discs quickly and releases blank instantly. Rubber covered discs prevent slipping of blanks.

Diameter of cutters 3⅞ in., clamping discs 2 in. Depth, cutting head to gauge 9¼ in., cutting head to frame 10¾ in.

For No. 22 Iron and Lighter

No. 278—Depth of circle arm 16¾ in., will circle from square blanks 2¾ to 22 in., weight 125 lbs.....Each $76.00

PEXTO SLITTING SHEARS

This machine is very convenient and useful for general slitting, and will cut material of any length for cornice, gutters, etc. It is also adapted for cutting elbows and patterns from sheet iron. The frame is of compact construction. The gears are encased, and the supporting table is provided with a scale for quick adjustment of the sliding gauge. The cutters are made of the finest steel. They have two cutting edges and are reversible. The bearings are adjustable to take up wear.

Total depth of throat 19 inches, depth of throat to gauge 18 inches.

For No. 16 Iron and Lighter

No. 255—For hand only, weight 325 lbs. Each $55 00
No. 260—Same as No. 255, only back geared and fitted with tight and loose pulleys and belt shifter for power. Weight 400 lbs. ....Each 80.00

PEXTO TINNERS TOOLS AND MACHINES

SLITTING SHEARS

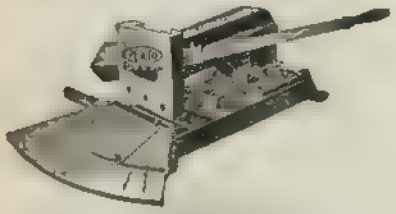
Pexto Rotary

Frame is exceedingly solid and compact and all adjustments are easily made. Diameter of cutters 3⅞ in., depth of cutting, head to gauge 9 in., head to frame 10⅛ in. Narrowest strip that can be cut is ⅛ in.

For No. 20 Iron and Lighter

No. 250—Weight 100 lbs.....Each $63 20

COMBINED BENCH AND SLITTING



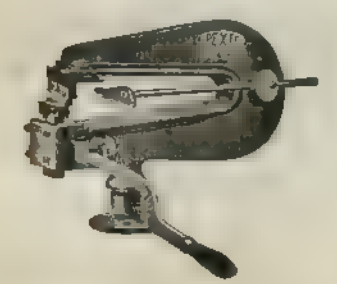
Pexto

A practical shear for use in car shops, automobile plants, and shops where a variety of straight and irregular cutting is done. The lower blade is stationary, enabling cutting to line with accuracy. Length of cutting blades 6½ in., depth of cutting, head to gauge 9½ in., head to frame 10 in. Size of table 12x15½ in.

For No. 18 Iron and Lighter

No. 248—Weight 185 lbs.....Each $70 00

SCROLL SHEARS



Pexto

Will cut circles, ovals, ogees and all irregular shapes with ease, also from the center of a sheet. Mounted in a standard which screws to bench and adjustable to any angle. Length of cut is regulated. Depth of cutting head to gauge 17 in., head to frame 18¼ in. Length of cutting blade 4¼ in.

For No. 20 Iron and Lighter

No. 269—Weight 155 lbs.....Each $90.00

LEVER SHEARS

Pexto

For slitting sheet iron in any length or width, or for cutting narrow iron bars. Blades are of best material and ground to a perfectly true cutting edge. Very strong and rigid. Length of cutting blades 6 in. Length of gauge rod 22 in.

For No. 10 Iron and Lighter

No. 296—Weight 130 lbs.....Each $80 00

SQUARING SHEARS

Hull's Acme

Parts are accurately fitted, with wood top shelf and iron side extension tables, improved front and back gauges, for cutting metal, and a variety of other uses and special work, as cutting leather, cloth, paper, hard or soft rubber, etc. Can be arranged for power; back-geared or not back-geared, with or without hold-down attachments.

For No. 20 Iron and Lighter.

No. 177—22 inches in length, weight 300 lbs. .....Each $95.00

For No. 18 Iron and Lighter.

No. 178—25 inches in length, weight 325 lbs .....Each 110 00

No. 179—31 inches in length, weight 425 lbs .....Each 116 00

No. 180—37 inches in length, weight 700 lbs .....Each 137 50

For No. 16 Iron and Lighter

No. 182—42 inches in length, weight 900 lbs .....Each 240 00

For No. 14 Iron and Lighter.

No. 184—31 inches in length, weight 660 lbs. .....Each 180.00

SQUARING SHEARS

Pexto

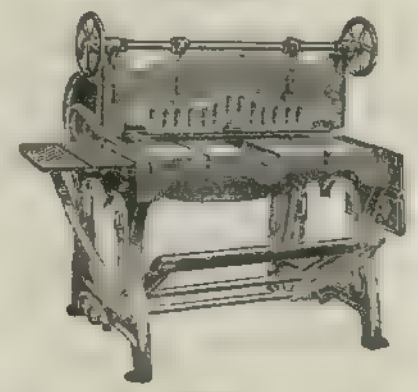
This new pattern is popular owing to the extra wide bed plate. Furnished with complete gauge equipment. No. 132A only furnished with top arms. One pair long front arms furnished with Nos. 132A and 137A. Side tables sent only when specified at extra cost.

For No. 18 Iron and Lighter.

No. 132A—Length 31 in., bed plate 14 in. wide, weight 540 lbs.....Each $116 00

No. 137A—Length 36½ in., bed plate 14 in. wide, weight 650 lbs.....Each 145 50

CONTINUOUS CUTTING OR GAP SHEARS



Pexto

Sheets 30 inches wide may be cross cut at any point desired. Sheets 37 inches in width may be cut up into strips of ½ inch to the full depth of the throat. Removing the side guides permits of the cutting of sheets in any length and as wide as the depth of the throat.

Hold-down attachment is operated by hand and slides on independent ways, so that when the blades are in motion the hold-down remains in a fixed position. It can be operated from either end of the shears by means of the small hand wheels.

Fitted with side extension tables for supporting long sheets of metal. Bed plate is graduated in inches and fractions.

Furnished complete with Hold-down attachment, side shelves and two pairs of front arms, one pair each long and short, and complete gauge equipment.

For No. 18 Iron and Lighter

No. 186—For foot power, 37 in., 15½ in. throat, weight 1500 lbs...Each $270 00

No. 187—For foot power, 37 in., 19 in. throat, weight 1630 lbs....Each 290 00

PEXTO TINNERS' TOOLS

TINNERS' STAKES

Wrought iron, with steel face

Creasing with Horn

No. 927—Round end 12 inches, flat end 6⅝ inches, weight 12 lbs.....Each $14.80

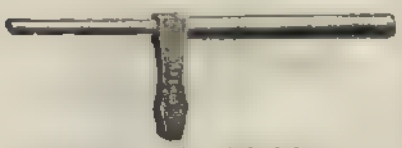
Wrought iron, with steel faces.

Common Creasing

No. 928—15 inches long, weight 11½ lbs. .....Each $14.80

Wrought iron, steel faces.

Nos.	941	942	943
Length blade, in	16	14½	13
Weight, lbs.	14	11	8½
Each	$11.60	10.60	9.50
Nos.	**944**	**945**	**946**
Length blade, in	11	9	7
Weight, lbs.	6½	4	3
Each	$8.50	6.30	5.80



Cast iron, with polished faces.

Conductor

Nos.	971	972
Large end, in.	15	14
Small end, in.	11½	10⅛
Weight, lbs.	28	17
Each	$10.00	9.00

With four steel heads

Tea Kettle

No. 968—Wrought, weight 75 lbs..Each $45.30

TINNERS' STAKES

Bath Tub — Bevel Edge Square — Bottom

Bath Tub

No. 966—Cast iron, polished face, weight 11 lbs. .....Each $4.20

Bevel Edge Square

Wrought iron, with steel faces.

No. 931—Face 3x5 inches, weight 16 pounds .....Each $14.80

No. 932—Face 2⅛x4½ inches, weight 14 pounds .....Each 12.70

Bottom

Wrought iron, with steel faces

Nos.	961	962
Width, inches	1¾	1⅛
Weight, lbs.	3	2¾
Each	$5.30	4.80

No. 935

No. 965

No. 936

Coppersmiths' Square

No. 935—Wrought iron, steel face, face is oval on one end, 2¾x4½ inches, weight 11 lbs.....Each $10.60

Round Head

No. 965—Cast iron, polished face 3 in. in diameter, length 12⅛ in., weight 9½ lbs .....Each $4.20

Common Square

No. 936—Wrought iron, steel face 2¾x4½ inches, weight 11 lbs.....Each $9.50

Cast iron, polished faces

Mandrel

Nos.	960	960½	961
Length to standard, in.	61	40	34½
Weight, lbs.	128	86	56
Each	$20.00	14.80	12.70
Nos.		**962**	**963**
Length to standard, inches		30	27½
Weight, lbs.		43	30
Each		$10.00	7.90

PLANISHING HAMMERS

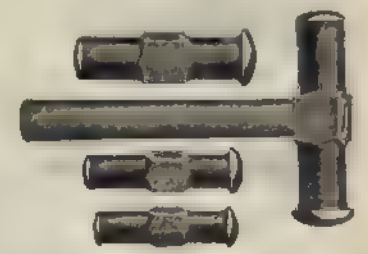
Crucible steel carefully tempered and hardened, polished faces.

Unhandled

Nos.	1	2	3
Weight, lbs.	¾	1	1⅛
Each	$2.70	3.00	3.60
Nos.	**4**	**5**	**6**
Weight, lbs.	2	2½	3
Each	$4.40	5.20	6.00

Packed as Ordered

RAISING HAMMERS



Crucible steel, full polished heads, selected second growth hickory handles

Handled

Nos.	1	2
Dia. faces, in.	1¾x2⅛	1⅛x2
Weight, oz.	32	30
Each	$4.80	3.70
Nos.	**3**	**4**
Dia. faces, in.	1⅝x1⅝	1⅛x1⅝
Weight, oz.	36	28
Each	$2.70	1.60

Packed as Ordered

SETTING HAMMERS

Crucible steel, full polished, selected second growth hickory handles.

Nos.	1	2	3	4	5
Weight oz.	24	18	14	10	6
Width in.	1⅛	1	⅞	¾	⅝
Per dozen	$9.75	8.31	6.75	5.31	4.75

Half Dozen in a Box

RIVETING HAMMERS

Crucible steel, full polished, selected second growth hickory handles.

Nos.	0	1	2
Weight oz.	40	24	18
Width, in.	1½	1⅛	1
Per dozen	$18.00	9.75	8.31
Nos.	**3**	**4**	**5**
Weight, oz.	14	10	6
Width in.	⅞	¾	⅝
Per dozen	$6.75	5.31	4.75

Half Dozen in a Box

TINNERS' TOOLS

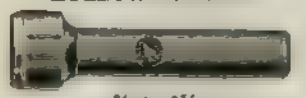
HAND GROOVERS

Forged steel, polished faces

Nos.	00	0	1	2	3
Groove, inch	1/8	5/32	3/16	1/4	5/16
Each	$1 96	1 96	1.74	1 74	1.84
Nos.	**4**	**5**	**6**	**7**	**8**
Groove, inch	3/8	7/16	1/2	9/16	5/8
Each	$1 64	1.52	1.52	1.52	1 52

Six in a Box

HOLLOW PUNCHES



⅛ to 1½
Forged steel

1¾ to 3
Wrought shanks

Diameter, in.	3/8	1/2	5/8	3/4	7/8	1
Per inch	$3 04	3.04	3.04	3.04	3 04	3 04
Diameter, in.			1¼	1½	1¾	2
Per inch			$3 04	3.04	3.04	3 04
Diameter, in.			2¼	2½	2¾	3
Per inch			$3 01	3 04	3 04	3 04

Six in a Box

SOLID PUNCHES

Forged Steel, Polished Points

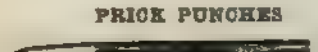
0 1 2 3
Full Size of Ends

4 5 6 7 8

Nos.	0	1	2	3	4
Per dozen	$1.80	1.44	1.44	1.44	1.44
Nos.		**5**	**6**	**7**	**8**
Per dozen		$1 44	1 44	1 44	1 44

One Dozen in a Box

PRICK PUNCHES



Forged steel

Prick Punches ....Per dozen $1 44
One Dozen in a Box

SCRATCH AWLS

Solid steel, ring handle
No. 01—Length 8½ inches....Per dozen $2.50
One Dozen in a Box

LANTERN CHISELS

Cast Steel, Polished Point
Lantern Chisels—Width ⅛ in. Per dozen $2.00
One Dozen in a Box

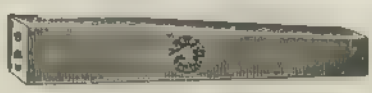
WIRE CHISELS

Cast Steel, Polished Blades

Width, in.	1/4	3/8	1/2	5/8	3/4	7/8
Per dozen	$1.80	2.00	2 10	2 20	2.35	2.90
Width, in.	1	1⅛	1¼-1⅜	1½	1¾	2
Per dozen	$3 10	3.50	3 60	4.35	4.75	6 25 7.00

One Dozen in a Box

TINNERS' RIVET SETS AND HEADERS



Cast Steel, Polished and Blued

For Iron Rivets
(Full size of holes)

	00	0	1	2	3
For iron rivets,					
14	10 and 12	8	6	4 and 5	
For copper rivets,					
5	6	7	8		

(Full size of holes)

	4	5	6	7	8
For iron rivets,					
2 and 3	1½ and 2	1½	1¼ lbs.	10 and 12 oz.	
For copper rivets,					
9	10 and 11	12	13	14	

Nos.	00 & 0	1 & 2	3 & 4	5 & 6	7 & 8
Each	$0.75	63	50	37	32

Half Dozen in a Box

FARMERS' RIVET SETS

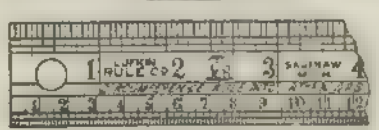
Forged steel, oil tempered, polished face, natural finish body.

For Copper Rivets

Nos.	70	80	90	100
Copper rivet No.	7	8	9	10 & 11
Per dozen	$2 40	2 40	2.40	2.40

Half Dozen in a Box

TINNERS' STEEL CIRCUMFERENCE RULE



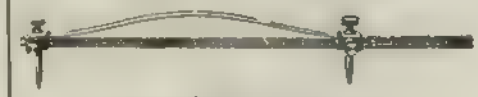
Top edge is graduated in 16ths. Bottom edge is called "circumference inches," into 8ths.

One side circumference rule; opposite side table of measurements, as follows:
Liquid measure—flaring, ¼ pint to 5 gallons.
Dry measure—flaring, ¼ bushel to 2 bushels.
Cans—pitched top, 1 gallon to 10 gallons.
Cans—flat top, 1 gallon to 200 gallons.
Dry measure—straight, 1 quart to 3 bushels.
Width 1¼ inches, 16 gauge
No. 95—Polished, length 3 ft.....Each $2.50
No. 95N3—Nickeled, length 3 ft...Each 3.75
No. 95N4—Nickeled, length 4 ft...Each 4.85

STEEL STRAIGHT EDGE

Made of steel and have beveled edges. Valuable around the shop for laying out work in general. 2¼ in. wide, ¼ in. thick.
No. 994—Length 4 ft.....Each $6.30

THE "MAGIC" PATTERN RULE



With Chart

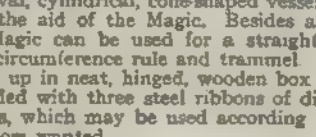
For laying out sheet metal elbow patterns up to 14 inches in diameter and at any angle desired.

Consists of a 7/16 inch square steel bar, marked circumference inches one side, and inches and 8ths other side. Fitted with brass sliding trammel heads with set screws, and steel points, all nicely nickel plated. For laying out elbow patterns, the left hand slide is fastened to the end of the bar by the set screw, and the right hand slide is set according to the diameter elbow that is wanted. A flexible steel ribbon on the top of the bar is then raised to the required height, according to angle of elbow wanted; one glance at the chart giving such height necessary according to the elbow required.

For example, suppose an elbow is wanted say 6 inches in diameter and at an angle corresponding with the long line C on the chart set the right hand slide at figure 6 on the front of rule, get with your ordinary rule the distance from bottom of diagram on the chart of the perpendicular line 6 to where it meets the angle line C; then raise steel ribbon to this height, fasten it with set screw.

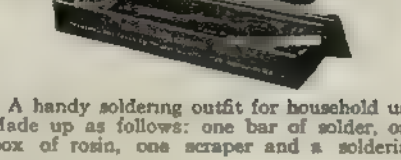
The chart is 19x23 inches in size, mounted on linen and contains, besides the elbow diagram, also rules for cutting all kinds of flaring, oval, cylindrical, cone-shaped vessels, etc., with the aid of the Magic. Besides all this, the Magic can be used for a straight edge, rule, circumference rule and trammel.

Put up in neat, hinged, wooden box and is provided with three steel ribbons of different gauges, which may be used according to size of elbow wanted.
Magic—Complete .....Each $10 00



A handy soldering outfit for household use. Made up as follows: one bar of solder, one box of rosin, one scraper and a soldering copper.

Gem
No. 2—.....Per dozen sets $11 00
Twelfth Dozen Sets in a Wooden Box



Household or jewelers' set. Consists of one sheet of tin, one piece of solder, one box rosin and a soldering copper.

Leader
No. 10 .....Per dozen sets $2.00
Twelfth Dozen Sets in a Box

Expert Advice and Service *for* Park Departments!

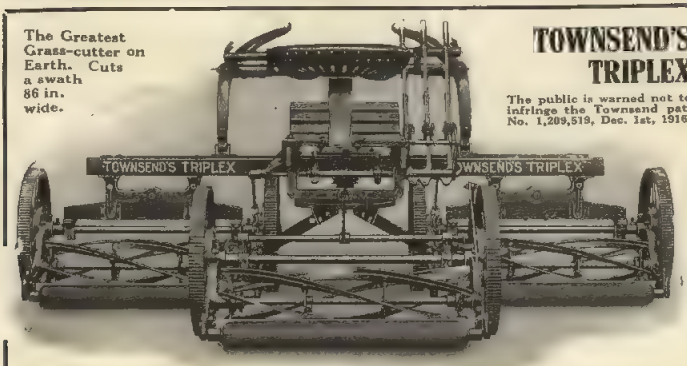
OWING to the increasing demand for technical and expert advice in park matters, and the desire on the part of many Boards of Park Commissioners and Park Committees to turn over the parks to skilled persons to manage, we have inaugurated a Park Management Department. We manage your properties, either in detail or act in an advisory capacity. This is a real service by expert and skilled hands. We will put business methods into park maintenance and development. We will show you how to save money and get increased results.

Write for Detailed Information.

Benjamin E. Gage 30 N. LaSalle St. **Chicago, Ill.**

"AUTHORITY ON PARK MANAGEMENT"

The Greatest Grass-cutter on Earth. Cuts a swath 86 in. wide.



TOWNSEND'S TRIPLEX

The public is warned not to infringe the Townsend pat. No. 1,209,519, Dec. 1st, 1916.

Drawn by one horse and operated by one man, the TRIPLEX MOWER will mow more lawn in a day than the best motor mower ever made, cut it better and at a fraction of the cost.

Drawn by one horse and operated by one man, it will mow more lawn in a day than any three other horse-drawn mowers with three horses and three men. (We guarantee this.)

Floats over the uneven ground as a ship rides the waves One mower may be climbing a knoll, a second skimming the level, and the third paring a hollow.

Does not smash the grass to earth and plaster it in the mud in springtime, nor crush out its life between hot rollers and hard, hot ground in summer, as does the motor mower.

Write for catalogue illustrating all types of Townsend Lawn Mowers, with list of users (FREE).

S. P. TOWNSEND & COMPANY

23 Central Avenue, Orange, N. J.

FLOUR SIFTER

Hunter Pattern; a thoroughly Practical Size; Capacity One Cup; Height 3½ inches; Diameter 4 inches; Bright Tin; Side Crank with Hard Wood Knobs; Rod Extends through Side; Strong Wire Mesh; Soldered Handle.

Per Dozen

No. 1376—Weight per Dozen 3 lbs..... $2 50
Two Dozen in a Package

PASTRY SETS

All little girls who like to make mud pies will appreciate one of these pastry sets. Each set consists of a moulding board, a rolling pin, potato masher and wooden bowl, in box with lithographed label.

Per Dozen

No. 247—5x7 inches; Weight per Dozen 4 lbs..... $1 40
One Dozen in a Package

No. 248—6¼x10 inches; Weight per Dozen 9 lbs..... 3 40
Half Dozen in Package

No. 249—8¼x14 inches; Weight per Dozen 12½ lbs..... 5.50
Quarter Dozen in Package

COFFEE MILLS

Juvenile, Thoroughly Practical; Varnished Hardwood Dovetailed Box, 4x4x2¾ inches, with Drawer; Chilled Iron Adjustable Grinders; 3¼ inch Gold Bronze Open Hopper, Lacquered Iron Crank with Wood Knob.

Per Dozen

No. 1137—Weight per Dozen 15 lbs... $6 00

One in a Package

Little Tot; Varnished Hardwood Box, 2¾x2⅝x2 inches; Wood Drawer, with Bronze Iron Front; Cast Iron Grinders; Gold Bronze Cast Iron Open Hopper and Crank.

Per Dozen

No. 1129—Weight per Dozen 6 lbs..... $2 60
One Dozen in a Package

TOY SCALES

Cast Iron Beam and Standard; Blue Enameled Tin Scoops; with Brass Weights; Length 8¾ inches;

Per Dozen

No. 1656—Weight per Dozen 13½ lbs..... $4 50
One in a Package

Cast Iron Beam and Standard; Blue Enameled Tin Scoops; with 3 Iron Weights.

Per Dozen

No. 1357—Weight per Dozen 10½ $2 00

TOY SAD IRONS

Mrs. Pott's Pattern; A Practical Size for Small Work; Length 3¼ inches; Nickel Plated and Polished; Gold Bronzed Top Plate; Removable Handle, with Finished Hardwood Grip; Complete with Bronze Iron Stand.

Per Dozen

No. 1654—Weight per Dozen 16½ lbs..... $4 50
One in a Box

Mrs. Pott's Pattern; Length 3¼ inches; Full Polished; Nickel Plated Top Plate; Removable Handle with Nickel Plated Stretcher and Hardwood Grip; Complete with Bronze Iron Stand.

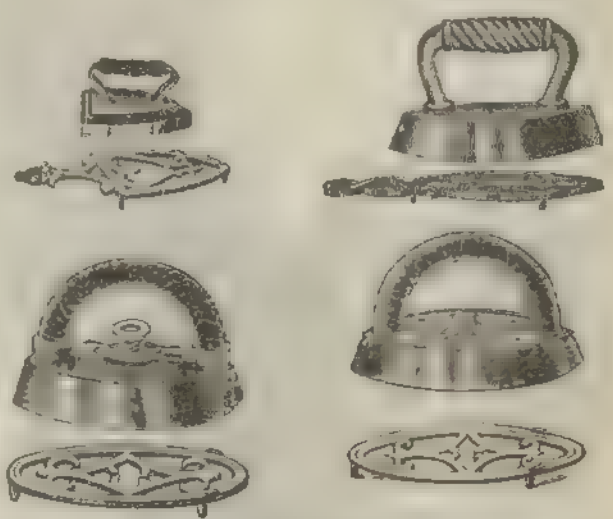
Per Dozen

No. 1655—Weight per Dozen 12½ lbs..... $3 80
Half Dozen in a Box

Length 2⅞ inches; Full Polished; Japanned Top Plate; Wood Handle, Not Removable; Complete with Bronze Iron Stand.

Per Dozen

No. 1653—Weight per Dozen 6 lbs... $1 80
One Dozen in a Box



Assorted Three Common Sad Irons and Three Mrs. Pott's Pattern; Lengths Assorted 2⅞ to 3¼ inches; Weights Assorted 7 Ounces to 16 Ounces; Each with Bronze Iron Stand.

Per Dozen Assortments

No. 1658—Assortment of Six Styles as Described Above; Weight per Dozen Assortments, 60 lbs..... $16 00
One Assortment in a Box

TOY RANGES

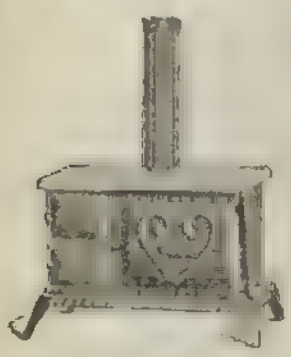
Top and Back; Brassed Doors; Five Holes with Removable Lids; Complete with Tin Utensils, Four Covered Sauce Pans, One Each, Fry Pan, Platter, Cake Pan and Scoop.

Per Dozen
No. 1686—Weight per Dozen 12 lbs.....**$11.00**

One in a Package

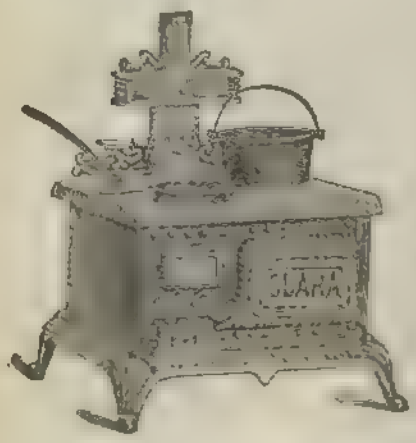
Nickel Plated Cast Iron Top, Base and Swinging Oven Doors; Jet Black Finish Cast Iron and Steel Body; Two Holes with Removable Lids; Complete with Cast Iron Skillet and Kettle and One Length of Stove Pipe; Length 5⅛ inches; Width 4¾ inches; Height without Pipe 3⅛ inches.

Per Dozen
No. 2014—Weight per Dozen 21 lbs.. **$5 00**
Half Dozen in a Box



Nickel Plated Cast Iron; 2 Holes with Removable Lids; Swing Oven Door; Complete with One Length of Stove Pipe, Cast Iron Skillet, Kettle, and Lid Lifter; Length [illegible] inches; Width [illegible] inches; Height without Pipe [illegible] inches.

Per Dozen
No. 1402—Weight per Dozen 16 lbs. **$4.70**
One Dozen in a Box



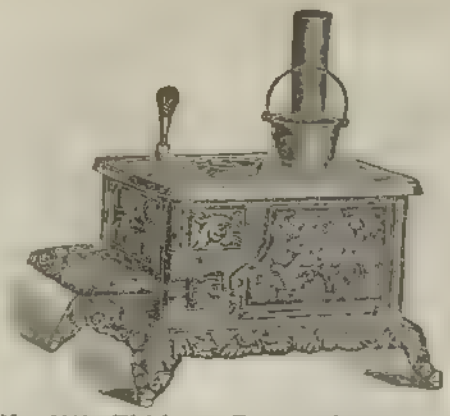
Nickel Plated Cast Iron: 4 Holes with Removable Lids; Swinging Oven Doors, Nickel Plated Cast Iron Warming Closet; Complete with Cast Iron Kettle; Two Skillets, and Lid Lifter; Length 5⅝ inches; Width 4½ inches; Height 6½ inches.

Per Dozen
No. 1440—Weight per Dozen 27 lbs.....**$8 50**
Third Dozen in a Box

Cast Iron; Nickel Plated Top, Base, Door and Removable Extension Shelf; Swinging Oven Doors, with Grate and Oven Lining, 4 Holes with Removable Lids, Complete with One Length of Stove Pipe, Cast Iron Skillet, Kettle and Lid Lifter; Length 8½ inches; Width 4½ inches; Height without Pipe 5 inches.

Per Dozen
No. 1403—Weight per Dozen 42 lbs.....**$17 00**
One in a Box

TOY RANGES

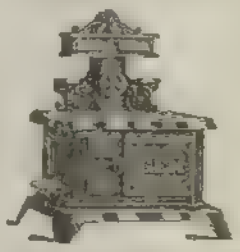


Cast Iron; All Nickel Plated; Removable Hearth; Lined Oven; Dumping Grate; 4 Holes with Removable Lids; Reservoir with Removable Cover, Swinging Oven Doors; Complete with One Length of Stove Pipe, Cast Iron Skillet, Kettle, and Lid Lifter and Shaker.

Per Dozen
No. 1413—Weight per Dozen 45 lbs **$18 00**
One in a Box

All Nickel Plated Cast Iron Removable Hearth Lined Oven Dumping Grate 4 Holes with Removable Lids Swing Oven Doors Complete with One Length Black Stove Pipe Cast Iron Skillet, Kettle, and Lid Lifter and Shaker.

Per Dozen
No. 1411—Weight per Dozen 36 lbs.....**$13 50**
One in a Box



All Cast Iron; Japanned; Swing Oven Doors; Lids and other Doors Unmovable; Length 3⅝ inches; Width 2½ inches; Height 3¾ inches.

Per Dozen
No. 1125—Weight per Dozen 10 lbs **$2 70**
Half Dozen in a Box

Gas Range; Length, with Shelf, [illegible] inches; Depth 5¼ inches, Height 10 inches; Nickel Plated Cast Iron Top, Extension Shelf, Warming Shelf, Base and Drop Oven Door with Gravity Latch, Cast Iron Double Burners, Heavy Steel Body, Jet Black Finish; Complete with Cast Iron Fry Pan and Sauce Pan.

Per Dozen
No. 2004—Weight per Dozen 54 lbs. **$27 00**
One in a Box

Gas Range; Length 7 inches; Width 4½ inches; Height 9 inches; Nickel Plated Cast Iron Top, Warming Shelf, Base and Drop Oven Door with Gravity Latch; Cast Iron Single Burner; Heavy Steel Body, Jet Black Finish; Complete with Cast Iron Fry Pan and Kettle.

Per Dozen
No. 2003—Weight per Dozen 36 lbs.....**$21 60**
One in a Package

Gas Range, Length [illegible] inches, Width 4½ inches, Height 6 inches; Nickel Plated Cast Iron Top, Base and Drop Oven Door with Gravity Latch; Cast Iron Single Burners; Heavy Steel Body, Jet Black Finish; Complete with Cast Iron [illegible]

Per Dozen
No. 2002—Weight per Dozen 27 lbs.....**$17 00**
One in a Box

MANUAL TRAINING TOYS

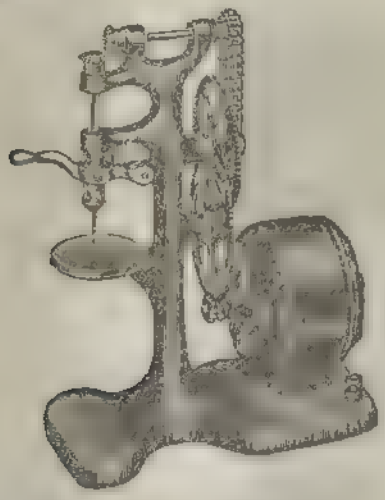
DRILL PRESSES

Will Drill Through Sheet Metal, Wood or Cardboard; Invaluable for Many Practical Uses in Drilling Small Holes without Splitting or Burring. 4½x2¾x6¾ inches; Black Enameled Cast Iron Frame; Nickel Plated and Polished; Regulation Metal Boring Tool Steel Drill.

Per Dozen

No. 1052—Weight per Dozen 12 lbs. . **$30 00**

One in a Box



DRILL PRESSES WITH MOTOR

No. 1053 Drill Press with Direct Connected Electric Motor Driven with Steel Link Belt; Black Enameled and Nickel Plated, [illegible] 7¼ inches; Requires Two Dry Cells.

Per Dozen

No. 1057—Weight per Dozen 30 lbs. **$72 00**

One in a Box

WOOD TURNING LATHES

Takes Wood up to 4 inches Long and ⅞ inch Thick; Will Turn any Shape Small Legs for Toys, Mallets, Toy Spokes, Spiral Springs, Building Posts, [illegible]; 9½x3½x4½ inches; Black Enameled and Nickel Plated; Fully Adjustable.

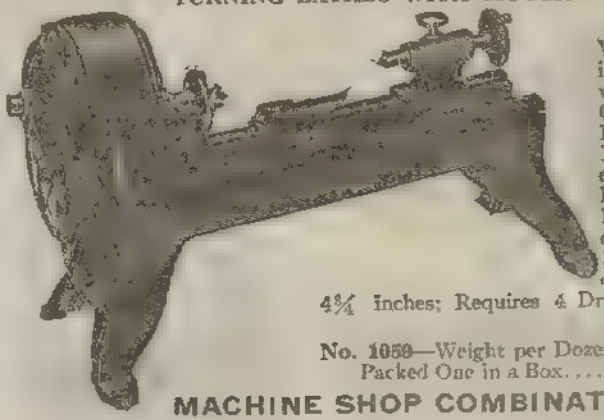
Per Dozen

No. 1054—With Steel Cutting Tool; Weight per Dozen 33 lbs. . . . **$60 00**

One in a Box

MANUAL TRAINING TOYS

TURNING LATHES WITH MOTOR

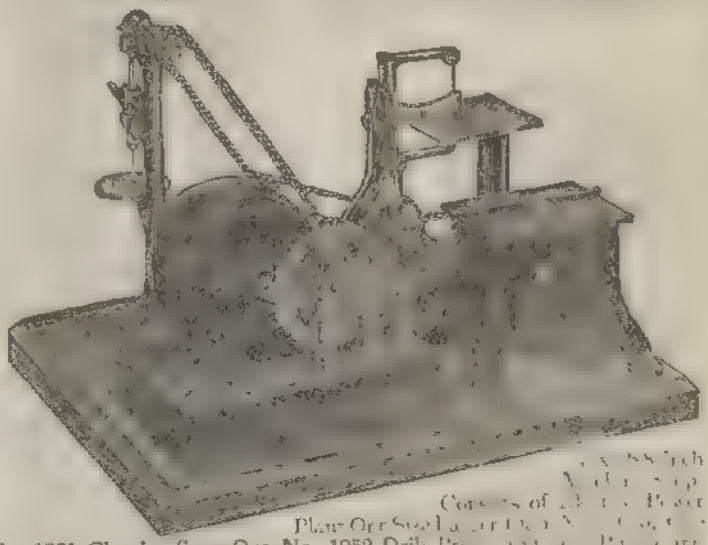


No. 1054—Wood Turning Lathe, with Direct Connected Electric Motor, Driven by Steel Link Belt; Black Enameled and Nickel Plated, [illegible] 4¾ inches; Requires 4 Dry Batteries.

Per Dozen

No. 1059—Weight per Dozen 48 lbs. Packed One in a Box. **$86 00**

MACHINE SHOP COMBINATIONS



[illegible] Inch Machine Shop Consists of [illegible] Power Plant One Size Larger than [illegible] Connected and Driven by Steel Link Belts. Requires Two to Three Dry Cells to Develop Proper Working Power. The Punch Press is 4x2¾x7⅛ inches; Solid Cast Iron and Tool Steel; Punches ⅛ inch Hole; Adapted to making Confetti, Cutting Out Doilies, Stencils, Monograms, Construction Toy Strips, etc.

Per Dozen

No. 1062—Weight per Dozen 115 lbs.; Packed One in a Box. . . . **$200.00**

12x12x8 inches; Saw Mill and Machine Shop; Consists of Electric Power Plant One Size Larger than No. 1065, One No. 1053 Jig Saw, One No. 1051 Circular Saw, and One No. 1052 Drill Press.

All Mounted on Heavy Wood Base, with Long Countershaft, Connected and Driven by Steel Link Belts; Requires Two to Three Dry Cells to Develop the Proper Working Power.

Per Dozen

No. 1061—Weight per Dozen 108 lbs.; Packed One in a Box **$150 00**

MANUAL TRAINING TOYS

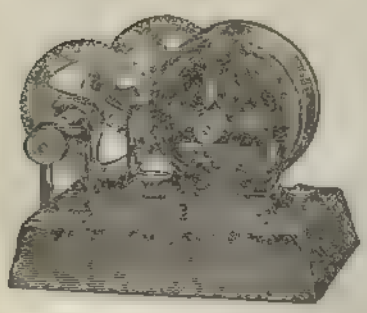
TOY MOTORS

3¼x3x3½ inches; Cast Iron; Black Enameled and Nickel Plated; Form Wound Fields; 3 Pole Wound Laminated Armatures; Spring Tension Combination Brushes; Will Run on One-Dry Cell.

Per Dozen
No 1063—Weight per Dozen 16 lbs..... .....$18 00
One in a Box

3x3x3½ inches; Same as No. 1063, with Heavy Cast Iron Base; with Start, Stop and Reverse Switch.

Per Dozen
No. 1064—Weight per Dozen 18 lbs.....$30 00
One in a Box



Three Speed Multi-Gear Power-Plants; 5x3½x4 inches; Motor Same as No. 1064, with Steel Multiple Gear Drive and Countershaft; Heavy Iron Base; with Start, Stop and Reverse Switch; Black Enameled and Nickel Plated; will Run on One or Two Dry Cells.

Per Dozen
No. 1065—Weight per Dozen 30 lbs $60 00
One in a Box

GRINDING AND POLISHING MACHINES

Real Emery Wheel, will Sharpen Knives and Grind Tools; Real Felt Buffing Wheel, will Polish Metal, Wood and other Articles and Buff Silverware; a Practical Household Utility Item as well as Toy; 4¼x2¼x4¼ inches; Black Enameled Cast Iron Frame.

Per Dozen
No. 1055—Weight per Dozen 12 lbs.. . . . . $12 00
One in a Box

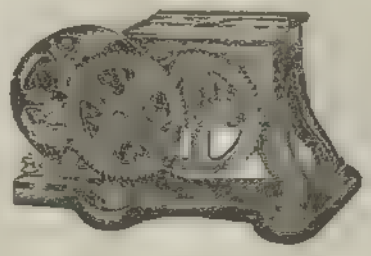
MANUAL TRAINING TOYS

Not Merely Toys. Every Item in this line of Machinery is Practical and will actually perform the Same Operations that Large Shop Machinery Does. Offers a Splendid Means of Training to Children and People of All Ages. First Work Bench, Then Attractive Light Running Every Advanced Principle of Power, Speed, and Safety. Can be Operated by any Toy Motor, with Dry Batteries or Electric Light Current Through Transformer.

CIRCULAR SAWS WITH SAFETY GUARD

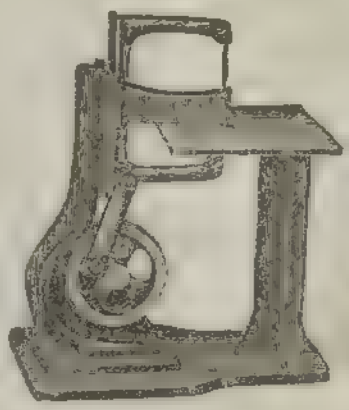
Will Saw Wood up to ⅛ inch Thick; 4x2¾x3¼ inches; Black Enameled Cast Iron Frame; Nickel Plated and Polished Top; Steel Saw, with Safety Guard, making it Impossible to Get Finger to Saw Blade.

Per Dozen
No. 1051—Weight per Dozen 12 lbs.....$18 00
One in a Box



No. 1051 Circular Saw with Direct Gear Drive Electric Motor; Black Enameled and Nickel Plated; 6½x4¼x3¾ inches; Requires Two to Three Dry Cells.

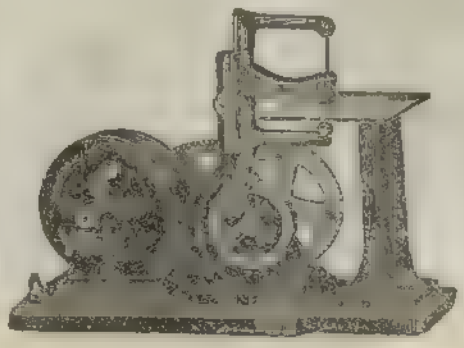
Per Dozen
No. 1056—Weight per Dozen 48 lbs. $60 00
One in a Box



JIG OR SCROLL SAW

Will Saw Cardboard, Fibreboard, or Wood Up to ¼ inch Thick; 4½x8x4¾ inches; Black Enameled Cast Iron Frame; Nickel Plated Polished Top; Steel Blade; for Straight Sawing or Scroll Work, Fine for Making Jig Saw Puzzles.

Per Dozen
No. 1053—Weight per Dozen 24 lbs.....$42 00
One in a Box

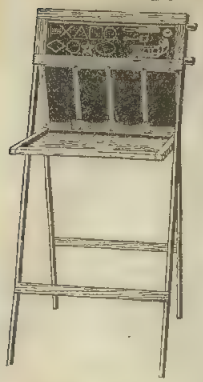


JIG SAWS WITH MOTOR

No. 1058 Jig or Scroll Saw with Direct Gear Drive Electric Motor; Black Enameled and Nickel Plated; 8x3x5¼ inches; Requires Three Dry Cells.

Per Dozen
No. 1058—Weight per Dozen 51 lbs $84.00
One in a Box

BLACKBOARD DESKS



Combination Writing Desk; Plain Hardwood; with Bright Red Back Panels and Chalk Pockets; Reversible Blackboard Coated on Heavy Cardboard; Swiveled So One Side Forms Flat Top for Desk Writing and Reverse Side Tips Up in Standing Position; with Four Charts of Letters, Figures, and Illustration on Revolving Roller Stretcher; Chain Supports; Height 43 inches; Width 20 inches.

Per Dozen

No. 762—Weight per Dozen, 54 lbs. **$24.00**

Quarter Dozen in Package

Combination Writing Desk; Varnished Heavy Hardwood; with Bright Red Back Panels and Pockets; Reversible Wood Blackboard, Coated with Writing Surface on Side which Tilts Up for Standing Position; When Lowered it Forms a Flat Top Writing Desk with Varnished Hardwood Surface; Chain Supports; Large Series of Charts and Colored Pictures on Revolving Roller Stretcher; Height 44 inches; Width 23 inches.

Per Dozen

No. 763—Weight per Dozen 76 lbs. **$30 00**

Two in a Package

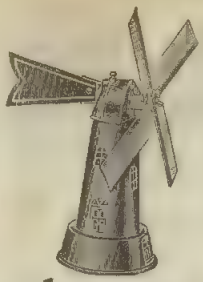
Combination Writing Desk; Same as No. 763, Except Blackboard is Coated on Extra Heavy Cardboard, with Blackboard Surface on Both Desk Side and Upright Side; Height 44 inches; Width, 23 inches.

Per Dozen

No. 764—Weight per Dozen 76 lbs. **$42 00**

Two in a Package

TOY WIND MILLS

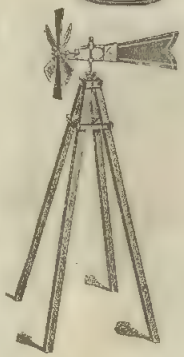


Dutch Windmill; Made Entirely of Iron and Steel; Thoroughly and Carefully Constructed to Last for Generations; Handsomely Finished in Enameled Colors and Nickel Plate; So Finely Adjusted That the Slightest Breeze from Draft or Fan Turns the Wheel to Face It and It Revolves Rapidly.

Per Dozen

No. 1130—Height 15 inches; Diameter of Wheel 12 inches; Weight per Dozen 28 lbs. . . . **$12.00**

One in a Package



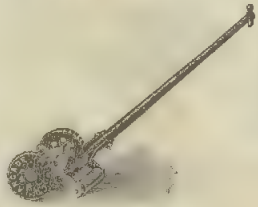
American Wind Mill; Same Sturdy Finely Adjusted Working Parts as No. 1130; Scaffold Frame, like Wind Mills Used in This Country, and Smaller Wheels with More Paddles or Wind Planes; Staunch Wood Frame; Nickel Plated Cast Iron Platform and Cap; All Steel and Iron Working Parts, Nickel Plated; Richly Enameled Vane and Planes; Planes, Red, White and Blue.

Per Dozen

No. 1131 — Height 26 inches; Greatest Diameter 10 inches; Diameter of Wheel 6¾ inches; Weight per Dozen 16 lbs. **$6.00**

One in a Box

TOY LAWN MOWERS



Lawn Mower; Delights All Children; the Aluminum Bronzed "Cutting Reel" Revolves with the Drive Wheel, Making a Realistic Appearing Mower, But There is no Cutting Bar, so no Danger of Injury.

2¾-inch Green Enameled Drive Wheels; Red Frame; Gold Decorations; Hardwood Roller.

Per Dozen

No. 1128—Length 23 inches; Width 5 inches; Weight per Dozen 14 lbs. **$4.50**

Half Dozen in a Package

TOY PUMPS

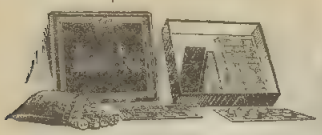
Cast Iron; Gold Bronzed Pump; Blue Enameled Tub: When Water is Placed in Tub it Can be Pumped Back and Forth from Pump to Tub.

Per Dozen

No. 1129—Height 8¼ inches; Weight per Dozen 20 lbs. **$6.00**

Half Dozen in a Package

GAMES



LOTTO

Wood Frame Box, Covered with Red Imitation Leather, and Embossed in Silver. Contents includes 24 Numbered Cards 7x3½ inches, Lithographed in Green and Black; a Full Set of Glass Markers and Polished Hardwood Counters; the Counters are Enclosed in a Cloth Bag, and the Markers in a Small Pasteboard Box; A thoroughly High-Grade Set in Every Respect.

Per Dozen

No. 231—Box 10x8¼ inches; Weight per Dozen 17 lbs. **$11 00**

Four in a Package

LOTTO

Wood Frame Box, 6¾x4⅛ inches; Covered with Imitation Wood Grain Paper; Contains 24 Lithographed Cards, Full Set of Glass Markers, and Wood Counters; Fine Lithographed Label.

Per Dozen

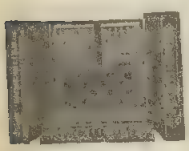
No. 230—Weight per Dozen 10 lbs. **$4 70**

Four in a Package

Per Dozen

No. 229—A small Edition for a Low Price: Contains 12 Colored Cards, and Round Cornered Wood Counters; Box 6¾x3¾ inches with Fine Lithographed Label; Weight per Dozen 4 lbs. **$1.90**

One Dozen in a Package



BACKGAMMON BOARDS

Made in the Form of a Book; Well Hinged; the Squares are Red and Black with Gold; Complete with Full Set of Checkers.

Per Dozen

No. 215—Size Open 14x16 inches; Wood Frame; Very Well Made, Strong and Substantial; Enameled Playing Surfaces with Two Stained Wood Dice Cups; Weight per Dozen 20 lbs. **$8.50**

Two in a Package

No. 214—Size Open 16x15¾ inches; Wood Frame; Heavy Board Top; Enameled Playing Surfaces; Elaborate Design; with One Stained Wood Dice Cup; Weight per Dozen 12½ lbs. **$4.80**

Half Dozen in a Package

Per Dozen

No. 213—Size Open 14x13¾ inches; Wood Frame; Medium Board Top; Enameled Playing Surfaces; With One Dice Cup; Weight per Dozen 8 lbs. **$2 60**

Half Dozen in a Package

No. 212—Size Open 11⅞x11½ inches; Not Varnished; Light Wood Frame; Light Board Top; with One Dice Cup; Weight per Dozen 6 lbs. **$2 00**

Half Dozen in a Package

GAMES

CHESS OR CHECKER BOARDS

CHESS BOARDS

Imitation Leather Cloth Back; Red and Black Squares; Double Hinged; Extremely Well Made.

Per Dozen

No. 219—16¼x16¼ inches; Extra Heavy Board; Enameled Surface; Elaborate Design; with Gold Decoration; Weight per Dozen 18 lbs. **$6 00**

Half Dozen in a Package

No. 218—15x15 inches; Heavy Board; Enameled Surface; Gold Decorations; Weight per Dozen 10 lbs. **3 00**

Half Dozen in a Package

No. 217—14x14 inches; Medium Board; Enameled Surface; Weight per Dozen 6 lbs. **1 80**

One Dozen in a Package

No. 216—12¼x12¼ inches; Light Weight Board, Plain Surface; Weight per Dozen 3 lbs. **1 00**

One Dozen in a Package

POCKET CHECKER BOARD

8x4x⅝ inches; Folding Hardwood Board; Polished Ebony Satin Finish; Brass Hinges and Catch; Red and Black Enameled Squares with Gold Borders; 7/16 inch Red and Black Composition Checkers with ¼ inch Stems Fitting into Drilled Sockets; Black Squares Bored so Checkers Can be Fitted into Sockets to Prevent Sliding and to Preserve Unfinished Games; Stems also Fit into Sockets in Checkers for "Crowned Pieces."

Per Dozen

No. 331—Weight per Dozen 6 lbs. **$12 00**

One in a Package

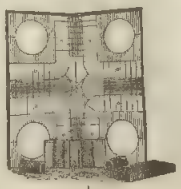
CHESS MEN

American Box Wood; Hand Turned; Waxed Finish; Height of King Piece 2½ inches; Box 5x1 inches, Complete with Rules of Play.

Per Dozen Sets

No. 286—Weight per Dozen 6 lbs. **$12 00**

One Set in a Box



INDIA OR PARCHESI

Heavy Folding Board; Well Made and Hinged; Black Imitation Leather Back; Brilliantly Lithographed Enameled Playing Surface; Box 7¼x3 inches; Containing Sixteen Colored Counters with Metal Rims; Four Wood Dice Cups; Eight Bone Dice; and Rules of Play.

Per Dozen

No. 226—Weight per Dozen 16 lbs. **$13 20**

Half Dozen in a Package

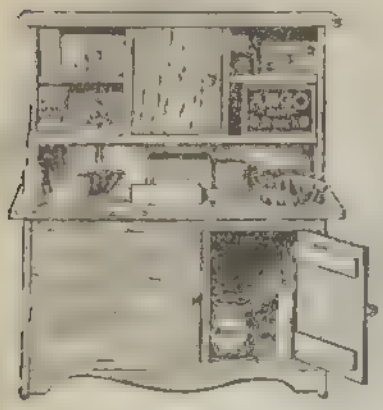
16x16 inches; Same as No. 226, Except Smaller and Lighter Weight Board, and Box 3¼x2½ inches, Contains Sixteen Stained Wood Counters Two Wood Dice Cups, Two Bone Dice, and Rules of Play.

Per Dozen

No. 225—Weight per Dozen 13½ lbs. **$6.50**

Half Dozen in a Package

TOY KITCHEN CABINETS



Hard Wood; Varnished; Height 15½ inches; Width 13½ inches; Depth 6 inches; 3 inch Doors; Sliding Pastry Shelf; Furnished with Wood Bowl, Rolling Pin, and Potato Masher, Four Fancy Shaped Tin Cut Pans and Tin Scoop; and Samples of Genuine Cow Soap, Baking Soda, Laundry Starch, Hand Sapolio and Rubifoam Tooth Wash; also Assorted Empty Cartons and Cans Labeled in Exact Copy of Well Known Food Brands, etc.

Per Dozen

No. 729—Weight per Dozen 72 lbs. **$30.00**

One in a Package

Hard Wood; Varnished; Height 13½ inches; Width 12 inches; Depth 5 inches; 2 inch Doors; Sliding Pastry Shelf; Equipped with Wood Bowl, Rolling Pin and Potato Masher; and Samples of Genuine Baking Soda, Laundry Starch, Hand Sapolio and Rubifoam Tooth Wash; also Assorted Empty Cartons and Cans Labeled in Exact Copy of Well Known Food Brands, etc.

Per Dozen

No. 728—Weight per Dozen 50 lbs. **$19 50**

One in a Package

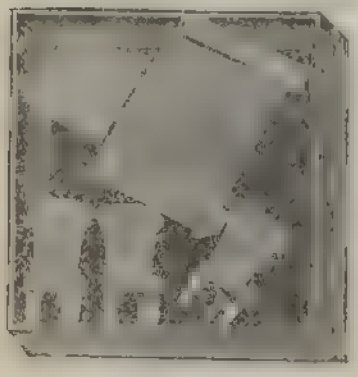
TOY FURNITURE

Dining Room Set; Golden Oak, Varnished; Fancy Carved and Shaped; Glass Door China Cabinet, 7¾ inches High; Large Side-Board with Mirror and Drawer Height 8¾ inches, Large Square Table, Four Chairs, 4¾ inches High, in Fancy Lined Box

Per Dozen

No. 844—Weight per Dozen 28 lbs. **$27 00**

One Set in a Box



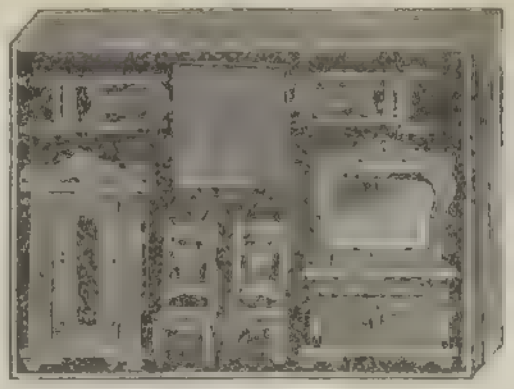
Bedroom Set; All White; Painted; Bed 6x11½ inches, Three Chairs, 4 inches High; and Center Table

Per Dozen

No. 846—Weight per Dozen 9 lbs. **$6 00**

One Set in a Box

TOY FURNITURE

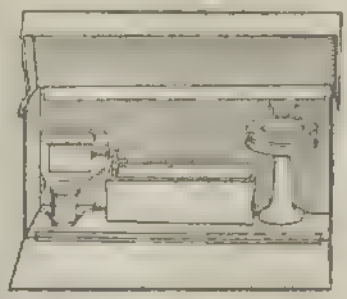


Parlor Set; Golden Oak, Varnished; Tapestry covered Seats; Wardrobe with Mirror, 7 inches High; Davenport; Two Straight Back Chairs, 4½ inches High; One Rocker 4½ inches High; and Center Table.

Per Dozen

No. 845—Weight per Dozen 36 lbs. **$13.50**

One Set in a Fancy Lined Box



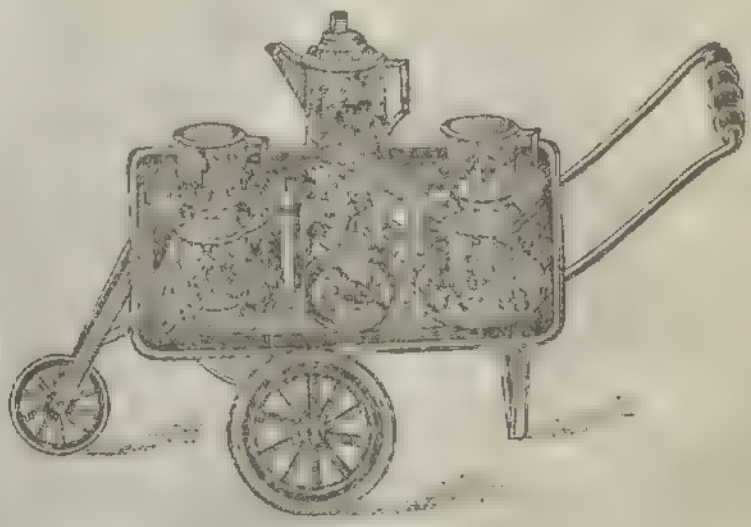
Bathroom Set; All Metal Construction; 6x2½ inch Bath Tub; Wash Bowl and Closet; with Gold Bronze Faucets; All Packed in Folded Hinged Box to Represent Bathroom.

Per Dozen

No. 1031—Weight per Dozen 22 lbs. **$21 60**

One in a Box

TOY TEA CARTS



Length 20 inches; Width 10½ inches; Height of Tray 5 inches; Tray and Dishes Brilliantly Decorated with Lithographed Pictures; Bright yellow Wheels; Ebony Handle Bar.

Per Dozen

No. 1087—Complete with Dishes; Weight per Dozen 24 lbs. **$24 00**

One in a Box

MANUAL TRAINING TOYS

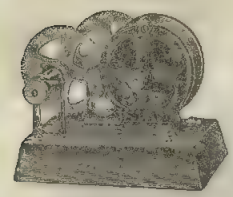
TOY MOTORS

3¼x3x3⅛ inches; Cast Iron; Black Enameled and Nickel Plated; Form Wound Fields; 3 Pole Wound Laminated Armatures, Spring Tension Combination Brushes; Will Run on One-Dry Cell.

Per Dozen
No 1063—Weight per Dozen 16 lbs. $18.00
One in a Box

3x3x3⅛ inches; Same as No. 1063, with Heavy Cast Iron Base; with Start, Stop and Reverse Switch.

Per Dozen
No. 1064—Weight per Dozen 18 lbs. $30 00
One in a Box



Three Speed Multi-Gear Power-Plants; 4¼x4 inches; Motor Same as No. 1064, with Steel Multiple Gear Drive and Countershaft; Heavy Iron Base; with Start, Stop and Reverse Switch; Black Enameled and Nickel Plated; will Run on One or Two Dry Cells.

Per Dozen
No. 1065—Weight per Dozen 30 lbs. $60 00
One in a Box

GRINDING AND POLISHING MACHINES

Real Emery Wheel, will Sharpen Knives and Grind Tools; Real Felt Buffing Wheel, will Polish Metal, Wood and other Articles and Buff Silverware; a Practical Household Utility Item as well as Toy; 4¼x2¼x4¼ inches; Black Enameled Cast Iron Frame.

Per Dozen
No. 1055—Weight per Dozen 12 lbs. $42.00
One in a Box

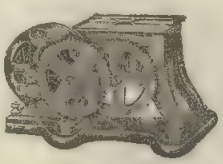
MANUAL TRAINING TOYS

Not Merely Toys, Every Item in this Line of Machinery is Practical and will Actually perform the Same Operations that Large Shop Machinery Does. Offers a Simplified Mechanical Training to Children and People of All Ages. Fascinating, Attractive, Polished Exhibit Giving Every Advanced Principle of Power, Speed, and Safety. Can be Operated by any Toy Motor, with Dry Batteries, or Electric Light Current Through Transformer.

CIRCULAR SAWS WITH SAFETY GUARD

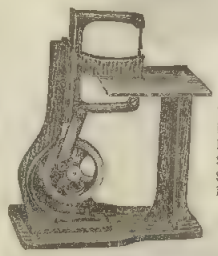
Will Saw Wood up to ½ inch Thick; 4x2¾x3¼ inches; Black Enameled Cast Iron Frame; Nickel Plated and Polished Top; Steel Saw, with Safety Guard, making it Impossible to Get Finger to Saw Blade.

Per Dozen
No. 1051—Weight per Dozen 12 lbs. $18.00
One in a Box



No. 1056 Circular Saw with Direct Gear Drive Electric Motor; Black Enameled and Nickel Plated; 6½x4¼x3¾ inches; Requires Two to Three Dry Cells.

Per Dozen
No. 1056—Weight per Dozen 48 lbs. $60.00
One in a Box



JIG OR SCROLL SAW

Will Saw Cardboard, Fibreboard, or Wood up to ⅝ inch Thick; 4½x3x4¾ inches; Black Enameled Cast Iron Frame; Nickel Plated Polished Top; Steel Blade; for Straight Sawing or Scroll Work; Fine for Making Jig Saw Puzzles.

Per Dozen
No. 1053—Weight per Dozen 24 lbs. $42.00
One in a Box

JIG SAWS WITH MOTOR

No. 1052 Jig or Scroll Saw with Direct Gear Drive Electric Motor; Black Enameled and Nickel Plated; 8x3x5¼ inches; Requires Three Dry Cells.

Per Dozen
No. 1058—Weight per Dozen 51 lbs. $84.00
One in a Box

MANUAL TRAINING TOYS

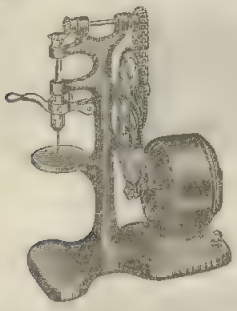
DRILL PRESSES

Will Drill Through Sheet Metal, Wood or Cardboard; Invaluable for Many Practical Uses in Drilling Small Holes without Splitting or Burring; 4½x2¾x8¾ inches; Black Enameled Cast Iron Frame; Nickel Plated and Polished, Regulation Metal Boring Tool Steel Drill.

Per Dozen

No. 1052—Weight per Dozen 12 lbs. . **$30 00**

One in a Box



DRILL PRESSES WITH MOTOR

No. 1057 Drill Press with Direct Connected Electric Motor; Driven with Steel Link Belt; Black Enameled and Nickel Plated; 6¼x2¾x7¼ inches; Requires Two Dry Cells.

Per Dozen

No. 1057—Weight per Dozen 30 lbs. **$72 00**

One in a Box

WOOD TURNING LATHES

Takes Wood up to 12 inches Long and ⅞ inch Thick, Will Turn any Shape, Spindles, Table Legs, Mallets, Rolling Pins, Spiral Springs, Building Blocks, etc. Complete with Steel Cutting Tools; 4¾x4½ inches, Black Enameled and Nickel Plated Metal.

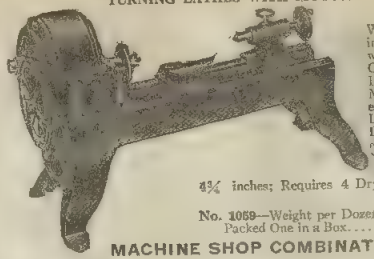
Per Dozen

No. 1054—With Steel Cutting Tools; Weight per Dozen 33 lbs. . . **$60.00**

One in a Box

MANUAL TRAINING TOYS

TURNING LATHES WITH MOTOR

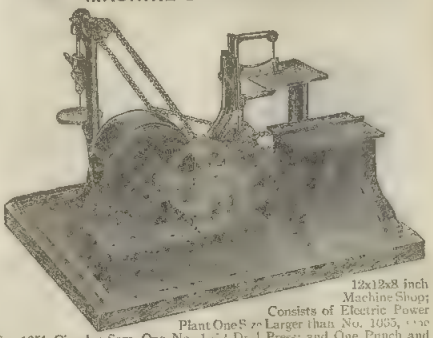


No. 1054—Wood Turning Lathe, with Direct Connected Electric Motor, Driven by Steel Link Belt; Black Enameled and Nickel Plated; 4¾ inches; Requires 4 Dry Batteries.

Per Dozen

No. 1059—Weight per Dozen 48 lbs.; Packed One in a Box. **$96 00**

MACHINE SHOP COMBINATIONS



12x12x8 inch Machine Shop; Consists of Electric Power Plant One Size Larger than No. 1065, One No. 1051 Circular Saw, One No. 1052 Drill Press; and One Punch and Die Press; All Bolted to Heavy Wood Base; with Long Counter Shaft; Connected and Driven by Steel Link Belts; Requires Two to Three Dry Cells to Develop Proper Working Power. The Punch Press is 4x2¾x7¼ inches; Solid Cast Iron and Tool Steel; Punches ¼ inch Hole; Adapted to making Confetti, Cutting Out Doilies, Stencils, Monograms, Construction Toy Strips, etc.

Per Dozen

No. 1062—Weight per Dozen 115 lbs.; Packed One in a Box. . . . **$200 00**

19x12x8 inches; Saw Mill and Machine Shop; Consists of Electric Power Plant One Size Larger than No. 1065, One No. 1053 Jig Saw, One No. 1051 Circular Saw, and One No. 1052 Drill Press.

A Miniature Metal Working Shop, with Lathe, Drill Press, Circular Saw, Jig Saw, Punch and Die Press, Connected and Driven by Steel Link Belts; Requires Two to Three Dry Cells to Develop the Proper Working Power.

No. 1061—Weight per Dozen 168 lbs.; Packed One in a Box. . . . **$288 00**

SQUARE.

Suitable for either indoors or outdoors. Made of heavy tin, japanned blue; wind proof.

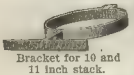
Each

No. 2SS—Size 10x12 ins., 8 inch silvered glass reflector; takes No. 2 burner, 1 inch wick..$7.00

One in a case.

TRACTION ENGINE HEADLIGHTS.

Footpiece.



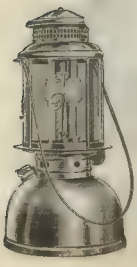
Bracket for 10 and 11 inch stack.

Each.

Traction Head Light—Strongly made, height 21¾ inches, width 12 inches, depth 9½ inches, silver plated copper reflector, diameter 10 inches, headlight burner. Mocking circular wick, 5 inches long, No. 87 Ham's chimney.....$18.00

One in a case, wt. of case 32 lbs.

GASOLINE PRESSURE LANTERNS.



AMERICAN READY-LITE.

Made of brass, heavily nickel plated Will burn outdoors in any weather, lights without removing top or chimney. To turn out simple close valve. Approximately 400 candle power light; burns about 10 to 11 hours on one filling. Uses two Ready-Lite mantles; has hand filler plug.

Each

No. 1250—Diameter of fount, 6¾ inches; capacity, 2 pints; height, 19½ inches; shipping weight, 5 lbs.....$8.65

Packed one in a box.

GASOLINE PRESSURE LAMPS.

AMERICAN READY-LITE.

No torch—no alcohol—lights with a match—no taking apart to clean. All Ready-Lite lamps and lanterns are equipped with the instant cleaner. When the generator becomes clogged with carbon, give the cleaner rod a quarter turn and it is thoroughly cleaned. Never have to take your lamp apart to clean.

All Ready-Lite lamps and lanterns are made of brass, heavily nickel plated, carefully tested before leaving the factory and fully guaranteed. They give more light than twenty-five oil lamps and cost only one-third cents per hour for fuel. No chance of explosion by dropping or overturning. Impossible to fill lamp while burning. Each lamp comes packed complete with necessary equipment. All lamps have universal shade holder that fits most any shade.

PORTABLE LAMP.

Made of brass, heavily nickel plated, with solid hardwood ebonized standard. Has hand filler plug; will burn from 16 to 18 hours on one filling. Uses two mantles; approximately 400 candle power. Has 10-inch ribbed shade.

Each

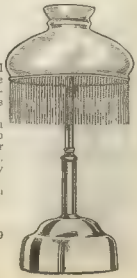
No. 1200—Diameter of fount, 8½ inches; capacity, 2 quarts; height over all, 19½ inches; shipping weight, 10 lbs.....$9.00

Made entirely of brass, finished in polished nickel, with 10-inch ribbed opal dome shade. Uses two mantles, gives 400 candle power light. No cleaning required.

Each

No. 1225—Diameter of fount, 8½ inches; capacity 2 quarts; height 19½ inches; shipping weight, 8 lbs.....$8.50

PARLOR LAMP.



A combination of both large and small generators is used, thus retaining the quick lighting feature of the small generator without sacrificing the advantages of the large generator.

Has 10-inch opal shade with 3-inch crystal bead fringe to match. Lamp burns 22 to 24 hours on a filling. Filler plug tightened or removed with fingers. Uses one large mantle; approximately 400 candle power light.

Each

No. P67-6—Diameter of fount, 8½ inches; capacity, 2 quarts; height over all, 23 inches, shipping weight, 12 lbs.....$10.50

For Gasoline Mantles see page 482.

SWITCHMAN'S.
WOOD BAIL.

An extra strong lantern, built to withstand hard use.

Wires and frame are dipped in molten tin which makes them absolutely rigid. Fount is drawn from one piece of tin and is removable from frame being held in place by two brass springs. Equipped with No. 2 brass signal oil burner, and No. 39 globe of best quality.

Bail is rigid wood type, always upright, makes control of signal easy; also gives firmer grip.

Per Dozen.

No. 90—Switchman's Lantern, height 15 ins.; length of handle 8½ ins.; weight per dozen, 24 lbs. $24.00

In bulk.

RAILROAD.

A strong, durable conductors railroad lantern; has heavy wire globe guard held stationary by protected spring under hood.

Made of heavy brass, handsomely nickel plated. Mounted on concave base with rolled rim.

Per Dozen

No. 39—Conductors Lanterns; size of wick, ⅝ inches; height with bail down, 10¾ inches; diameter of base, 6½ inches; weight per dozen, about 50 lbs. $21 80

One dozen in a case.

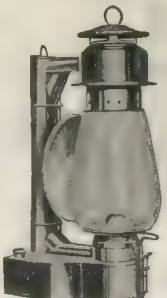
Light, strong and durable. Made from heavy gauge wire for frame and base; upright globe guards are heavy twisted wire; front is fitted with spring catch which is easily released for removing globe. Frame, base and outer metal parts are nickel plated.

Per Dozen

No. 40—Conductors Lanterns; size of wick, ⅝ inches; height with bail down, 10 inches; diameter of base, 7½ inches; capacity oil pot, 6 ounces; weight per dozen, about 47 lbs. $22.35

One dozen in a case.

SIDE REFLECTOR.
COLD BLAST.

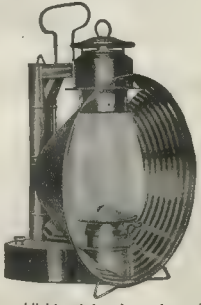


Each

No. 2SR—Side Reflector; windproof; just the lamp for warehouses, sheds, engine rooms or where a bright light is needed; fount holds oil enough to burn 28 hours; has a 5-inch silvered glass reflector; takes a No. 2 Cold Blast burner; 1-inch wick; Cold Blast globe; nicely enameled in red $2.60

One-half dozen in a case; weight, per case, 32 lbs.

SEARCHLIGHT.
COLD BLAST.



Each

No. 2SLB—Searchlight; windproof; can be used either indoors or outdoors; has a bright hood reflector, 12 inches in diameter and 7 inches deep, that reflects a very strong light; takes a No. 2 Cold Blast burner; 1-inch wick; Bull's Eye globe; nicely enameled in red $3 00

One-quarter dozen in a case; weight per case, 20 lbs.

NOTE—For Gasoline Pressure Lanterns see Pages 474 and 475.

Complete Set of Stencils, Letters, Figures, Characters

Standard Size 4½" x 8" Made of Sheet Steel
Japanned Black

4—1	4—9
4—2	4—0
4—3	1—E
4—4	1—X
4—5	2—Blanks
4—6	1—1st
4—7	1—2nd
4—8	1—3rd

Brass Car Fixtures

Finish: Nickel, Silver, Oxidized and Gold Plated

Our Own Manufacture

No. 140
Sash opener

Door butts
Lamp brackets
Roller bell cord brackets
Sash bolts
Hopper butts
Door bolts
Street car bells
Brass and zinc lamp canopies
Seat corners
Soap dishes
Street car bells
Hopper hinges
Chimney holders
Deck sash hooks
Tumbler holders
Toilet paper holders
Coach locks
End door locks
Baggage car door locks
Seat back moulding
Deck sash openers
Sash springs
Sash locks
Sash lifts
Sash stops
Blind springs
Blind bolts
Curtains
Curtain fixtures
Bell cord couplings
Bell cord bushings
Bell cord strap guides
Bell cord pulleys
Bell cord strap hangers
Ventilators
Registers
Basket racks
Hat and coat hooks
Seat arm plates
Berth fixtures
Curtain fixtures
Washroom fixtures
Deck sash fixtures
Mortise locks
Rim locks
Night latches
Saloon latches
Brass knobs
Bronze knobs
Porcelain knobs
Door holders
Register fixtures
Drawer pulls
Deck sash pivots
Ventilator rings
Parcel racks
Seat arm stops
Acorn tips
Brass oiler trays
Oiler stands
End fasteners
Door keys
Spring hinges
Ticket files
Brass chips

No. 142
Sash opener

Zinc, brass and copper, spun or cast ing to blueprint or specification.

Special patterns made to order, accord-

Wrenches

"Trimo" Pipe Wrench and Parts

Fig. [illegible]

Price List

Length When Open	8 inch	8 inch	10 inch	14 inch	18 inch	24 inch	36 inch	48 inch
Grips	⅛" wire to 1" pipe	⅛" wire to 1½" pipe	⅛" wire to 1" pipe	⅛" wire to 1½" pipe	⅛" wire to 2" pipe	⅛" wire to 2½" pipe	½" wire to 3½" pipe	1" pipe to 5" pipe
Wrenches complete	$2 00	$2 25	$2 [illegible]	$4 [illegible]	$5 00	$7 25	$11 50	$20 00
Movable Jaws each	75	80	85	1 15	1 75	2 25	4 75	7 50
Nuts each	15	15	20	30	35	55	1 10	1 50
Inserted Jaws each	35	40	50	60	70	80	1 10	2 00
Frames each	38	42	50	60	75	95	1 70	2 20
Springs and Pins each	03	03	03	03	04	04	04	04
Frame Pins each	03	03	04	04	04	04	05	05
Jaw Pins each	03	03	04	04	04	04	05	05
Steel Handles each	95	1 00	1 10	1 50	2 25	3 50	7 00	10 50

Stillson Wrench and Parts

Fig. [illegible]

Length When Open	[illegible]	8 in	10 in	14 in	18 in	24 in	36 in	48 in
Grips	[illegible] wire to [illegible] pipe	⅛" wire to ¾" pipe	⅜" wire to 1" pipe	⅜" wire to 1½" pipe	⅜" wire to 2" pipe	⅜" wire to 2½" pipe	⅜" wire to 3½" pipe	1" pipe to 5" pipe
Number of Springs in Wrench	1	1	3	3	3	3	4	4
Wrenches complete	$2 00	$2 25	$2 [illegible]	$4 [illegible]	$5 00	$7 25	$11 50	$20 00
Jaws each	.75	80	85	1 15	1 75	2 35	4 75	7 50
Frames each	.38	42	50	60	75	95	1 70	2 20
Knurled Nuts each	12	15	20	30	35	55	1 10	1 50
Wood Handles each	16	16	18	28	28			
Steel Handle Bars each	95	1 00	1 10	1 50	2 25	3 50	7 00	10 50
Springs each	10	10	10	10	11	11	13	13
Frame Pins each	03	03	03	03	04	04	05	05
Spring Pins each	01	1	02	02	02	02	02	02
End or Wood Handle Nuts each	15	15	20	20	20			
Ferrules for Wood Handles each	.10	10	12	15	18			

Wrenches

Steel Socket Bridge Wrench

The range of sizes that one bridge wrench will take is from ¾ to 3 ¼ inches bolt diameter, or 1¼ to 5 inches smaller outside diameter of the nut

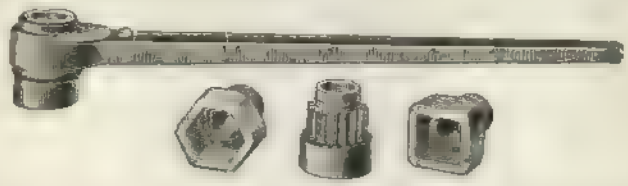


Fig. 665

No. 1. Length of handle, 2 feet. Weight, 10 pounds. Will take sockets 1¼, 1⅝, 1¾, 1⅞, 2 inch square

Price, each with single socket $ 6 00
Price, each additional socket 1 00

No. 2. Length of handle, [illegible] feet. Weight, 25 pounds. Will take sockets 2¼, 2⅝, 2¾, 3, 3⅛, 3¼ inch square or hexagon

Price, each with single socket $ 4 00
Price, each additional socket 2 50

No. 3. Length of handle, 3 feet. Weight, 50 pounds. Will take sockets 3¼, 3½, 3⅞, 4¼, 4⅝, 4¾ inch square or hexagon

Please order by size of nut, stamp diameter rather than by size of socket

Discount

Lowell Ratchet Wrenches

Fig. 666

No. 1	10-inch lever	Any one gear	each $3 00
No. 2	12-inch lever	Any one gear	each 4 00
No. 3	15-inch lever	Any one gear	each 5 00
*No. 3½	18-inch lever	Any one gear	each 6 00
No. 4	18-inch lever	Any one gear	each 7 00

*This handle takes a No. 3 gear

Discount

Lag Screw Wrench

Fig. 667

Designed for turning coach screws, nuts or bolts either way without taking off the wrench

Price List

No. 1. 12-inch handle. The socket for this wrench will turn nuts ⅝, ¾, ⅞, 1, 1⅛, 1¼, square, and ⅝, ¾, ⅞, 1, 1⅛, 1¼ hexagon.

Price each $2 00
Extra sockets each 40

No. 2. 8-inch handle. The sockets for this wrench will turn nuts ½, ⅝, ¾, either square or hexagon

Price each 1 00
Extra sockets each .75

No. 3. Ratchet handle. The sockets for this wrench will turn nuts 1¼, 1⅜, 1½, square or hexagon

Price each 4 50
Extra sockets each 1 00

No. 3 is particularly adapted for bolting rails to the broad tread of street railway rails

Discount

TRIMO TOOLS

ARE

Famous For Their

SUPERIOR QUALITY

□ □ □ □

Their

Strength, Durability and Economy

Have Made Them

World-Renowned

□ □ □ □

Made By

Trimont Mfg. Company

55-71 Amory Street

ROXBURY (BOSTON), MASS.

Trimo Pipe Wrench

Trimo Pipe Cutter

Send for Catalog No. 133.

FISHING TACKLE SIGNS

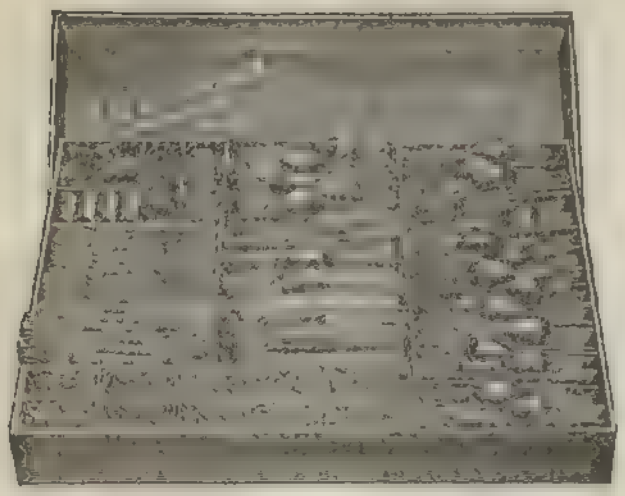
*DIAMOND BRAND

*DIAMOND

Each

No. DFS—Heavy Stamped Tin, Finished with a Heavy Coat of Gold Bronze; the Words "Diamond Tackle" Lettered in Black; Both Sides of Sign are Stamped Out of a Sheet of Tin and Soldered Together, Giving it the Exact Shape of the Living Fish; Rings Soldered in Back, so Sign Can be Suspended in any Convenient Place. This Sign Should be Hung in Front of Every Dealer's Store in Fishing Tackle. It is Appropriate and Helps to Increase Business. Size 24 inches Long by 10½ inches Through Widest Part; Weight 1¼ lbs..... **$5 00**
Loose

FISHING TACKLE ASSORTMENTS



*TRIUMPH

Triumph

TRADE MARK

A Most Convenient and Complete Fishing Tackle Assortment, Which will Help the Retailer Very Materially in Supplying the Demands of the Trade Assortment Consists of Good Quality Cotton Lines, Lead, Snells, Fish Hooks and Furnished Lines. This Assortment is Gotten up for the Retail Dealer Whose Trade is Limited to Staple Items of Fishing Tackle.

CONTENTS

100 Hooks No. CB22.
100 Hooks No. CB25.
100 Hooks No. K1.
100 Hooks No. K3.
100 Hooks No. K7.
100 Hooks No. K9
100 Hooks No. K20.
100 Hooks No. K40.
100 Hooks No. EC20.
100 Hooks No. EC30.
1 Dozen Sinkers No. BB.
6 Dozen Lines No. 1
2 Dozen Lines No. 3
1 Dozen Lines No. S615.
1 Dozen Lines No. S315.
1 Dozen Furnished Lines No. 100.
3 Dozen Furnished Lines No. 200
⅔ Dozen Furnished Lines No. 500.
⅓ Dozen Furnished Lines No. 600.
1 Ball 2 oz. Staging.
½ Dozen Floats No. W1½.
½ Dozen Floats No. WAB3½.
1 Dozen Sinkers No. C1. 1 Dozen Sinkers No. C2. 1 Dozen Sinkers No. C3.

Each

Triumph Fishing Tackle Assortment, in Brass Cloth Covered Cardboard Boxes; Size 15½ x 19¼ x 2¾ inches; Weight Each 7¾ lbs..... **$12.00**

SPORTSMEN'S ENCYCLOPEDIAS

A Combined Complete Outdoor or Sportsmen's Library. By Col. F. H. Buzzacott

Contains 544 Pages, 858 Illustrations, 114 Full Page Illustrations

A Complete Sportsmen's and Outdoor Lovers Encyclopedia of Surprising Fact and Instruction; Contains Facts and Forty Years Startling Experiences and Instruction in the Ways of Famous Hunters, Scouts Guides Explorers, etc.

Each

Sportsmen's Encyclopedia—The Complete Works of Col. F. H. Buzzacott; Bound in Cloth and Gold; Size 7x5x1 inches; Weight 20 ozs..... **$1 70**

JERSEYS

SOLID COLORS

Pure Cut Worsted Wool; Full Fashioned Double Collars and Cuffs

Per Dozen

No. J250N—Navy Blue; Sizes—40 and 42; Weight per Dozen 8 lbs..... **$60 00**

No. J250M Maroon; Sizes—40-42-44-46 only; Weight per Dozen 8 lbs..... **60 00**

No. J250G—Gray; Sizes—40 42-46 only; Weight per Dozen 8 lbs..... **60**

Half Dozen in a Box

Any Other Color Can Be Furnished to Special Order from Factory in Ten Days to Two Weeks

BATHING SUITS

★DIAMOND BRAND

NOTE—Specify Sizes when Ordering

WOMEN'S ONE PIECE BATHING SUITS

California Style—Sleeveless

A very Popular One Piece Suit made in Imitation of a Two-Piece Suit. The Skirt is Attached to Lower Garment; Put on Like an Ordinary One-Piece Combination Suit, Buttoned on Shoulders. It has All the Advantages and None of the Disadvantages of the Two-Piece Suits.

Per Dozen

No. WC10—Good Grade Heavy Cotton; Buttons on Left Shoulder; Sizes 36 to 48 inches; Color Black, Trimmed in Black and White Stripes; Weight 12 ozs. **$81 00**

Quarter Dozen in a Box

Per Dozen

No. WC20—Good Grade Wool Suit; Buttons at Shoulders, Sizes 38 to 48 inches Color Navy Blue, Trimmed in White; Weight 11¼ lbs. **$96 00**

One in a Box

No. WC30—Good Grade Wool Suit, Buttons at Shoulders, Sizes 38 to 48 inches, Color Kelly Green Trimmed in White; Weight 11¼ lbs. **96 00**

One in a Box

MEN'S ONE PIECE BATHING SUITS

California Style—Sleeveless

Popular One-Piece Suit. Made in Imitation of a Two-Piece Suit, the Skirt which, in Appearance is the Bottom of the Shirt Attached, Put on Like An Ordinary One-Piece Combination Suit, Buttons on Left Shoulder. It has all the Advantages and None of the Disadvantages of the Two-Piece Suits.

Per Dozen

No. MCO—Good Grade Cotton; Sizes 34 to 46 inches; Color Navy Blue; Bottom of Shirt, Pants, and Arm Holes Trimmed with White; Weight 6 ozs. . . **$30 00**

Half Dozen in a Box

Per Dozen

No. MC1—Good Grade Cotton; Sizes 34 to 46 inches; Color Royal Blue with 5½ inch Stripe on Shirt; and 2 inch Stripe on Pants; Weight 8 ozs. **$48 00**

Half Dozen in a Box

Per Dozen

No. MC2—Good Grade Cotton; Striped; Buttons on Shoulder; Sizes 34 to 46 inches; Color, Navy Blue; Bottom of Shirt, Pants and Arm Holes Trimmed in Green; Weight 8 ozs. **$36 00**

Half Dozen in a Box

No. MC3—Good Grade All Wool; Buttons on Shoulder; Sizes 34 to 46 inches, Color, Navy Blue; Bottom of Shirt and Pants Trimmed with 2¼ inch White Stripe; Weight 12 ozs. **102 00**

One in a Box

No. MC4—Good Grade All Wool; Buttons on Shoulder; Sizes 34 to 46 inches, Color Navy Blue; Bottom of Shirt and Pants Trimmed with 2¼ inch Kelly Green Stripe; Weight 12 ozs. . . **102 00**

One in a Box

BOYS' SUITS

Per Dozen

No. BC1—Good Grade Cotton; Buttons on Shoulder; Sizes 24 to 34 inches; Color Navy Blue; Bottom of Shirt, Pants and Arm Holes Trimmed in Red; Weight 6 ozs. **$27 00**

Half Dozen in a Box

BATHING CAPS

★ DIAMOND BRAND

Nos. 25 and 50.

No. 55.

Per Dozen

No. 25—Plain Black with White Reinforcing Band; Weight per Dozen 1¾ lbs. **$5 00**

No. 50—Plain Terra Cotta Red with Variegated Moire Rubber Reinforcing Band; Weight per Dozen 1¾ lbs. **9.00**

No. 55—Cream Color with Cream Color Rubber Reinforcing Band; Black Rubber Applied Butterfly Design, Weight per Dozen 2¼ lbs. **11 00**

Half Dozen in a Box

No. 75.

No. 100.

Per Dozen

No. 75—Orange with Wide Reinforcing Band of Same Material, Large Applied Rubber Bow in Imitation of Variegated Moire Silk. Weight per Dozen 2 lbs. **$13 00**

No. 100—Extra Heavy; Green with Red Reinforcing Band and Applied Red Rosette with Green Bow; Gathered Fullness, Making it Roomy; Weight per Dozen 3½ lbs. **17 00**

Half Dozen in a Box

WATER WINGS

AYVAD

These Wings Will Support a Man of 250 lbs. as Easily as a Boy of 50 lbs., for the Reason That it Takes Less Air to Support a Large Body than a Small One. To Use; Wet the Wings Thoroughly, Inflate Until the Air Bubbles from the Seams; Then Press Together the Two Ring Marks Under the Mouth Piece; Weight Each 3 oz.; Size 12x24 inches.

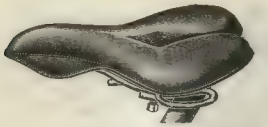
Per Dozen

No. WW1—Plain White; Good Quality **$7 20**

No. WW2—Assorted Colors; Extra Quality. . . . **9 00**

One Dozen in a Package; Weight per Dozen 1¼ lbs.

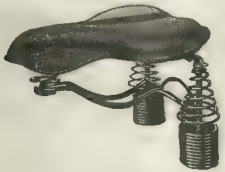
TROXEL.



Top made of choice grain leather, with highly finished split leather bottom. Laminated base, hair felt padding, with drop forged crown color plated clamps, coil springs.

Each

No. 6B—Bicycle Saddle; size, 7½x9¼ inches; weight each, ¾ lbs..... **$1.50**



Wood base, hair felt padding covered with selected grain leather, brown color, fitted with double springs.

Each

No. 21CCS—Bicycle Saddle; size, 8x9½ inches; weight each, 2 lbs..... **$3.00**

A comfortable saddle with well paded seat. Star top on No. 2 Universal spring.

Each

Star U—Bicycle Saddle; size, 8x10¼ inches; weight each, 2 lbs..... **$2.40**

The famous Star high back saddle. There have been more of these saddles sold than any other.

Each

Star X—Bicycle Saddle; size, 8x10¼ inches; weight each, 2 lbs..... **$3.00**

A racy looking saddle, combining both looks and comfort.

Each

No. ETT—Tip Top Bicycle Saddle; size, 7½x9¾ inches; weight each, 3½ lbs..... **$3.20**

Modeled after a motorcycle saddle, but smaller; mounted on a double coil spring, which makes it very comfortable and easy riding

Each

No. 2—Motor Bike Saddle; size, 8½x10½ inches; weight each, 4½ lbs..... **$2.20**

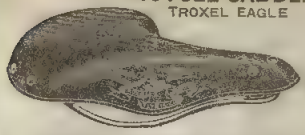
A new saddle built along the lines of the regular Easy with the exception of the flat steel trusses.

Each

No. ES—Easy Special Bicycle Saddle; size, 8½x10½ inches; weight each, 3¾ lbs..... **$5.00**

BICYCLE SADDLES

TROXEL EAGLE

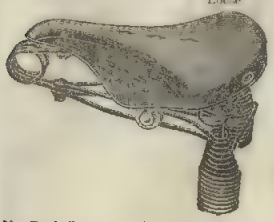


Stamped Steel Base; Truss Spring Nickel Plated; Spring Clamp; English Russet Leather Top; a Neat and Attractive Saddle at a Moderate Price; Length of Seat 10½ inches; Width 7½ in.

Each

No. Eagle Racer Weight 1 ¼ lbs. $2 40

Loose



Stamped Steel Frame and Trusses; Cushion Springs Combined with the Universal Cone Spring, All Finished in Black Enamel; English Russet Leather Top; the Universal Clamp on this Saddle Prevents its Turning or Twisting; Suitable for Heavy Riders and Hard Usage on Rough Roads; Length of Seat 11 inches; Length Over All 12 inches; Width 8½ inches.

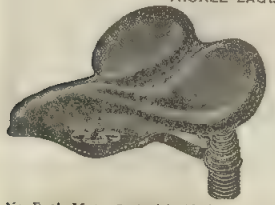
Each

No. Eagle Easy—Weight 4 lbs $4 50

Loose

MOTORCYCLE SADDLES

TROXEL EAGLE



Stamped Steel Frame and Trusses, Black Enameled; Flat Oak Tanned Leather; Saddle is Supplied with No-Bump Spring Action and Without Nose Coil, which Allows a Low Saddle Position; the Universal Clamp on this Saddle Prevents its Twisting or Turning. Length 14½ inches, Width 12½ inches.

Each

No. Eagle Motor 2 Weight 3½ lbs. $10 00

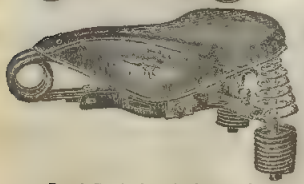
Loose

Stamped Steel Frame Trusses, Black Enameled; Finest Oak Tanned Leather, Equipped with New Spring Action and Without Nose Coil; Giving a Low Saddle Position, the Universal Clamp Used on this Saddle Prevents its Turning or Twisting. Length 15½ inches, Width 13½ inches.

Each

No. Eagle Motor 3—Weight 8¾ lbs. $12 50

Loose



Stamped Steel Frame and Trusses Cushion Springs Combined with the Universal Cone Spring, All Finished in Black Enamel; English Russet Leather Top; the Universal Clamp on this Saddle Prevents its Turning or Twisting. It is Especially Suitable for Heavy Riders and Hard Usage on Rough Roads; Length of Seat 12¼ inches; Length Over All 13½ inches; Width 9 inches.

Each

No. Climax—Weight 4¾ lbs. $8 00

Loose

✣MOTORCYCLE TANDEMS

FIT ANY MOTORCYCLE

Double Action Shock Absorbing Cushion Springs Relieve the Rider from all Bumps and Jolts.

This is the latest design in the Perfection of Motorcycle Tandems; Made of Cold Rolled Steel; Very Strong and durable; Will Stand the most severe Strains; The Rear Springs are constructed in such a manner that they will give a Rocking Movement from 3 to 4 inches. The Front Springs are carefully placed to support the Top and move in Harmony with the Rear Springs. The Construction is so designed that it will prevent any play or sway Sideways. Equipped with a Cushion, Narrow in the Front and Wide in the Rear; Is removable and can be taken off in a few minutes; Fitted with Extra low Handle Bar; Adjustable Foot rests can be folded up when not in use.

Each

✣No. 140—Nickel Plated and Polished; Weight complete about 13 lbs. $13 00

Loose

Note—When ordering, state Make of Machine, Model and Make of Coaster Brake.

COMBINATION TANDEMS AND CARRIERS

Made of Cold Rolled Steel; The Top is 14 inches long and 10 inches wide, made up of ⅞x1 inch flat Steel Bars. Folding Foot Rests made of ¼x1½ inch Steel; Rigid Construction; Will carry Weight of any Rider.

Each

✣No. 105—Nickel Plated and Polished; Can be furnished to fit any Machine; Weight complete about 16 lbs. $9 00

Loose

Note—When ordering, state Make of Motorcycle, Model and Make of Coaster Brake.

MOTORCYCLE CUSHIONS

Made of Good Quality Black Imitation Leather, Heavily Padded; Wooden Base; Size 14 inches long, 10 inches wide and 2 inches high; Attachment to Carrier made by two Thumb Screws.

Each

✣No. 90—Made Expressly for No. 105 Carrier, Weight each 3 lbs. . . $2 30

Loose

MOTORCYCLE FOOT RESTS

Made of Cold Rolled Steel; Adjustable to various Heights; Will Fit any Machine; Nickel Plated and Polished.

Per Pair

✣No. 122—Weight per Pair 2 lbs. $2.00

Loose

Items marked ✣ Not Carried in Stock; Can be Furnished only by Shipping Direct from Factory, Sheboygan, Wisconsin.

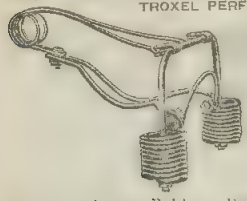
BICYCLE SADDLE SPRINGS

For Wood Base and Suspension Base Saddles

Adjustable to Different Length Saddles; Hinge Fastenings at Rear

TROXEL PERFECTION

Per Dozen



No. TP2 Heavy Tempered Steel Spring Wire Nickel Plated; Two Cushion Springs in Rear, One Front Coil Spring; Has the New Nose Coil which Strengthens the Saddle Tree and Flattened Eyes so that it is Adjustable to any Wood Base Saddle without Using Longer Bolts; Length Over All 10¾ inches; Weight per Dozen 30lbs..... **$12 00**

Loose

CUSHION COMFORT

Per Dozen

No. CC—Heavy Tempered Steel Spring Wire Nickel Plated Cushion Springs Combined with the Universal Cone Spring; Coil Spring in Front; Length Over All 10¾ inches; Weight per Dozen 16 lbs **$16.00**

Loose

UNIVERSAL

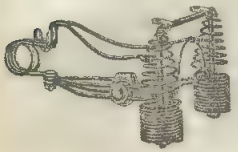
Per Dozen

No. USS2 Two Spiral Springs in Rear; Wire Truss Coil Spring in Front; Nickel Plated Finish; Has the New Nose Coil which Strengthens the Saddle Tree, and Eyes Flattened so that it is Adjustable to any Wood Base Saddle without Using Longer Bolts; Length Over All 10 inches; Weight per Dozen 15 lbs..... **$9 00**

Loose

EAGLE EASY

Per Dozen



No. E8S Has Two Tempered Steel Springs, Each Having Two Coil Springs, Combined with the Universal Cone Spring; the Universal Clamp on the Saddle Prevents its Turning or Twisting; Length Over All 12 inches; Weight per Dozen 40 lbs.....**$24 00**

Loose

COIL SPRING

Per Dozen

No. 3—Coil Spring, with Loop Made for Men's and Ladies' Saddle; Nickel Plated and Polished; Length Over All 7½ inches; Weight per Dozen 3 lbs..... **$3 60**

Loose

CHILD SEATS

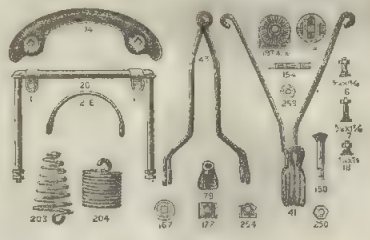
BROWNIE

Heavy Wire Frame, Nickel Plated and Polished; Three Ply Wood Seat with Bird's Eye Maple Veneered Top; Rubber and Leather Frame Protectors. Two Leather Straps for Securing or to Secure Child to Seat. Fits All Makes of Bicycles. Strong, Well Built and Most Desirable Seat.

No. 6BC—Weight 4 lbs Each **$4 00**

✣PARTS FOR EAGLE EASY SADDLE SPRINGS

Also Interchangeable on 15E and 12E Saddles



	Each
	$0 30
No. 174—Cantle	.28
No. 43A Wire Truss Lever	.28
No. 43B Wire Truss Lever	.50
No. 41 Nose Bolt	.36
No. 21T Lever Bolt	.50
No. 204 Main Cone	.28
No. 203—Rear Spring	.70
No. 26 - Rear Yoke	.28
No. 179 Swivel	.90
No. UC—Clamp Complete	.20
No. 187—⅝ Clamp Center	.16
No. 189—Clamp Button	.20
No. 150—Clamp Stud	.10
No. 250—Clamp Stud Nut	.10
No. 167—Clamp Washer	.20
No. 254—Special Clip	.20
No. 154—Adjusting Screw	.10
No. 258—Adjusting Screw Nut	.10
No. 177 Clevice	.10
No. 16—Bolt and Nut ⅜x1¼	.10
No. 17—Bolt and Nut ⅜x1¾	.10
No. 18 -Bolt and Nut ⅜x2½	

Twelfth Dozen in a Box

BICYCLE SADDLE CLAMPS

STANDARD

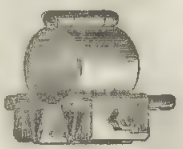
Per Dozen

No. 70—Full Nickel Plated; Fits All Bicycle Seat Posts; this is the Clamp Used on Most Saddles; Weight per Dozen 2¼ lbs..... **$2.50**

Loose

CHALFANT DIRECT

Each



No. CD Full Nickel Plated Inch Clamp, Does Duty as Seat Lever, No Seat Post Required; Best Principle for Shortening the Rear; Can Only be Used in Connection with Round Spring Saddles; Weight Each 4 ozs..... **$0 90**

One in a Box

UNIVERSAL

Each

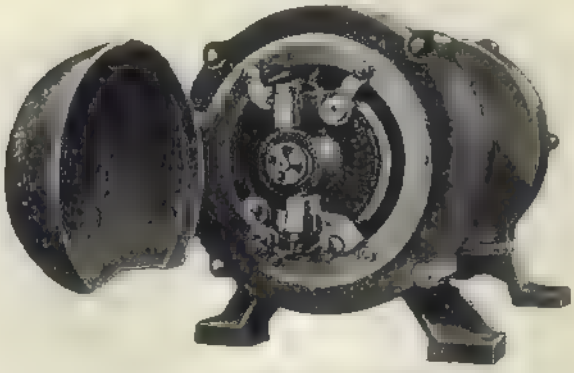
No. UC—Full Nickel Plated; Easily Adjusted; Will Fit Upright or Horizontal Seat Post Suitable for All Bicycle Seat Posts; Especially Adapted to Troxel Eagle Saddles. **$0 90**

One in a Box

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

Turbo-Generator for Locomotive Incandescent and Arc Headlights

Type "D"



View of Generator End

Governor is our special design and will govern a variation of one hundred (100) pounds steam pressure without any perceptible difference in speed regulation. Adjusted from outside with a small screw driver. Is extremely simple and mechanically correct. It will control from full load to nothing with a variation not to exceed three (3) volts.

Throttle valve is of the balanced piston type, one that has given general satisfaction. A non corrosive metal is used which is not affected by acids, steam, scale or alkali. Body or chamber of valve is of cast iron of such texture and quality as guarantees against corrosion. All parts of casing are interchangeable. Valve linkage is made of hard red brass, light in weight, but of sufficient strength to transmit motion from the governor sleeve thrust ring to the piston of the throttle valve.

The shaft bearings are in the same casting, making it impossible for these bearings to get out of line.

This Turbo Generator will furnish full voltage for arc and eight (8) additional 30 volt 25-watt Mazda lamps at a steam gauge pressure of 75 pounds. It can be used for incandescent lighting and will give full voltage and amperage for one 250-watt 30-volt lamp and six 25 watt 30-volt Mazda lamps at a steam gauge pressure of 40 pounds.

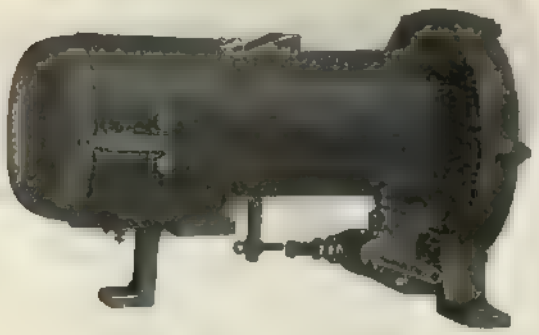
We guarantee the workmanship and material, will replace free of charge any part proving defective, or defective material, within a period of six months.

Price ..... Each $230.00

Discount

Turbo-Generator for Locomotive Incandescent Headlights

Type "F"



This Turbo-Generator is a 32 volt machine 500 watt capacity built for incandescent lights only It possesses the salient features shown and described in our type "D" Turbo-Generator but is lighter in weight and smaller in size and ample in capacity to maintain cab and classification lamps while headlight is burning

This type "F" Turbo-Generator will operate on steam gauge pressure from 50 to 250 pounds and will show condensation of water 145 pounds per hour The Governor will take care of variation of 100 pounds steam pressure As in our type "D" we use nothing but the highest grades of material assuring long life and low cost of maintenance

We give same guarantee for our type "F" as we do for our type "D

Price .. .. each $200·00

Discount

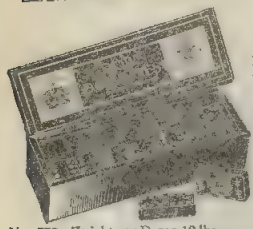
DOMINOES
MADE IN THE UNITED STATES

EACH SET INCLUDES PAIR OF METAL DOMINO HOLDERS

MAGNA

28 Pieces; 2½x1-1/16x⅛ inch; Ebony Finish with White Enameled Spots; American Eagle Embossed on Back; Two Metal Domino Holders with Each Set; Complete with Rules for Playing Various Domino Games; Imitation Leather Covered Wood Frame Box; 8¼x2¾ inches with Attractive Label.

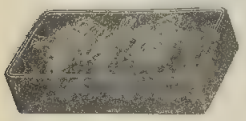
Per Dozen
No. 383—Weight per Dozen 15 lbs..... $8 50
One Set in a Box



CROWN

28 Pieces 2x1⅛ inches; Ebony Finish with White Enameled Spots; Crown Design Embossed on Back; Complete with Rules for Playing Various Domino Games; Imitation Leather Covered Wood Frame Box, 7¾x2⅝ inches, with Attractive Label.

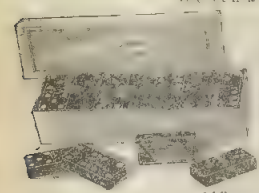
Per Dozen
No. 379—Weight per Dozen 12 lbs..... $5.00
One Set in a Box



CORONET

28 Pieces; 2x1x⅜ inches; Ebony Finish with White Enameled Spots; 24 in a Compartment Tray; Complete with Rules for Playing Various Domino Games; Imitation Leather Covered Wood Box; 7½x2½ inches, with Attractive Label

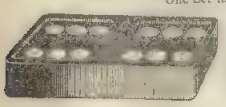
Per Dozen
No. 378—Weight per Dozen 9 lbs..... $4 50
One Set in a Box



U. S. A.

28 Pieces; 2¾x1⅝x⅜ inches; Ebony Finish with White Enameled Spots, American Flag Embossed on Back; Complete with Rules for Playing Various Domino Games; Box 6¼x2 inches with Colored Label.

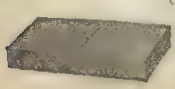
Per Dozen
No. 377—Weight per Dozen 6½ lbs..... $2.40
One Set in a Box



COLUMBUS

28 Pieces; 1⅝x13-16x5/16 inches; Ebony Finish with White Enameled Spots; Portrait of Columbus and 2 Hemispheres Embossed on Back; Box 6x2 inches; with Colored Label.

Per Dozen
No. 376—Weight per Dozen 5½ lbs..... $1 80
One Set in a Box

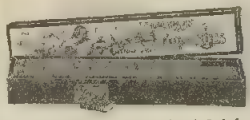


EBON

Miniature; 28 Pieces; 1¼x⅝x¼ inches; Ebony Finish, with White Enameled Spots; Arabesque Design Embossed on Back; Box 4¾x1⅛ inches.

Per Dozen
No. 385—Weight per Dozen 3 lbs..... $1 00
One Set in a Box

DOMINOES
MADE IN THE UNITED STATES



NUBIAN

56 Pieces; 1⅝x13/16x⅜ inches; Ebony Finish with White Enameled Spots; Elaborate Arabesque Design Embossed on Front and Back; Complete with Rules for Playing Various Domino Games; Imitation Leather Covered Wood Frame Box, 12¾ x 2⅝ inches with Colored Label.

Per Dozen
No. 381—Double 9; 56 Pieces; Weight per Dozen 14 lbs..... $8 50
One Set in a Box

EXPRESS

1⅝x13-16x¾ inch; Ebony Finish with White Enameled Spots; Locomotive Design Deeply Embossed on Back; Complete with Rules for Playing Various Domino Games; Box 11¾x2 inches with Colored label.

Per Dozen
No. 380—Double 9; 56 Pieces; Weight per Dozen 10 lbs..... $4 80

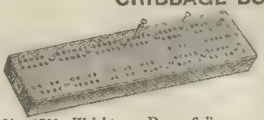
No. 382—Double 12; 91 Pieces; Weight per Dozen 15 lbs..... 9 00
One Set in a Box

WHITEFACE

28 Pieces; 2x1x⅜ inches; Ebony Finish, with White Enameled Face, Panels and Black Spots; Embossed on Back with Hunting Dog in Fine Relief; Each Set in DeLuxe Leatherette Case with Brass Glove Fastener; 7½x4½x1⅛ inches

Per Dozen
No. 384—Weight per Dozen 13 lbs. $13.00
One Set in a Box

CRIBBAGE BOARDS

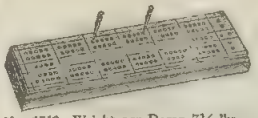


10x2 inches; Solid Hardwood Block; Varnished. Eight Brass Plated Studs; Four Turned Wood Pegs.

Per Dozen
No. 1741—Weight per Dozen 6 lbs..... $4 00
One in a Box

11x2½ inches; Solid Hardwood Block; Varnished; 12 Brass Plated Studs; Receptacle in End with Four Turned Wood Pegs.

Per Dozen
No. 1742—Weight per Dozen 7 lbs..... $8 00
One in a Box

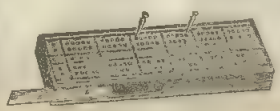


12x3½ inches; Hardwood; High Gloss Finish; Plain Top Otherwise Same as No. 1744.

Per Dozen
No. 1743—Weight per Dozen 7½ lbs..... $13.50
One in a Box

12x3½ inches; Birdseye Maple; Beautifully Finished; Top Marking in Close Imitation of Cherry Inlay; Four Bone Pegs; Space in Bottom for Pegs; Rubber Feet.

Per Dozen
No. 1744—Weight per Dozen 9 lbs..... $17.50
One in a Box

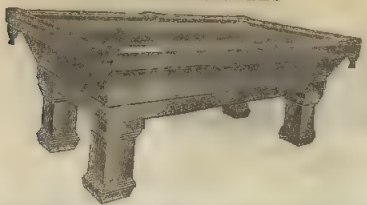


CRIBBAGE BOARDS

11½x3 inches; All Hardwood; Handsomely Inlaid Top; Beautifully Finished; with Six Turned Wood Pegs; Compartment, with Metal Slide, in Base for Deck of Cards, Also for Pegs.

Per Dozen
No. 1745—Weight per Dozen 12 lbs..... $27.00
One in a Box

BILLIARD TABLES



Built Exactly like Large Billiard Tables; It has the same High Speed Rubber Cushions, Slate Bed, Pocket Irons and Pockets; Made of Seasoned Lumber and Finished in Mahogany; Playing Outfit Consists of: 15 Compo Solid Striped Inlaid Number Pocket Balls, 1 Compo Cue Ball, 4 Fine Tapered Cues, 1 Ball Rack, 1 Cue Rack, 1 Billiard Brush, 1 Triangle, 1 Leather Bottle, 1 Set of Tally Balls, Chalk, Tips, Cue Clamps and Glue.

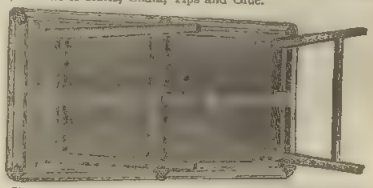
	Each
No. P36—Complete; Size 3x6 Feet; Weight 275 lbs.	$200.00
No. P36B—Same as No. P36, but with Pocket Stops and 3 Compo Billiard Balls	220 00

EXTRAS FOR BILLIARD TABLES

Pool Balls—16 in a Set; Weight 2½ lbs.	Per Set $9 00
Cues—Weight per Dozen 8¼ lbs.	Per Dozen $9 00
Brushes—Weight per Dozen 6 lbs.	Per Dozen $7 50
Triangles—Weight per Dozen 4½ lbs.	Per Dozen $7 50
Cue Chalk—12 in a Box; Weight 10 ozs.	Per Gross $5.00
Cue Tips—100 in a Box; Weight 5 ozs.	Per 100 $3 00
Cloth Glue—Weight per Dozen 3¼ lbs.	Per Dozen $2 70

BILLIARD TABLES

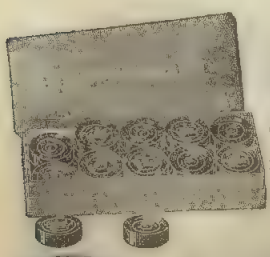
Made of Hardwood, Mission Finish, Genuine Slate Bed; Regulation Billiard Rails; Pure Rubber Cushions, Pocket Irons and Pockets Covered with High Grade Billiard Cloth; Folding Legs, Playing Outfit Consists of: 15 Compo Agate Solid Striped and Inlaid Number Pocket Balls; 1 Compo Cue Ball; 2 Finely Tapered Cues; 1 Billiard Brush; 1 Spirit Level; 1 Triangle, 1 Book of Rules, Chalk, Tips and Glue.



Cut Shows How Quickly and Easily the Legs can be Folded up Beneath the Table for your Convenience.

	Each
No. 2230—Complete, Size 30x54; Weight 75 lbs.	$54 00
No. 2230C—Same as No. 2230, and in addition, 1 Extra Set of 3 Compo Billiard Balls, and 1 Set of 6 Pocket Stops for Converting the Pocket Table into a Carom Billiard Table	72 00
No. 2225—Complete, Size 27x45 inches; Weight 55 lbs	50 00
No. 2225C—Same as No. 2225, and in addition, 1 Extra Set of 3 Compo Billiard Balls, and 1 Set of 6 Pocket Stops for Converting the Pocket Table into a Carom Billiard Table	60 00

CHECKERS



ENAMELED

30 Pieces; Hardwood; Finely Embossed with Crown Design; Brilliantly Enameled Red and Black; Fancy Imitation Leather Covered Box 6¾x2¾ inches.

Per Dozen

No. 388—Size 1¼ inches; Weight per Dozen 6½ lbs. Per Dozen $4 80

One Set in a Box

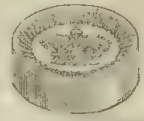
King

30 Pieces; Hardwood; Finely Embossed with Crown Design; Highly Polished in Red and Black; Polished Wood Box 6¼x2¼ inches with Slide Cover.

Per Dozen

No. 387—Size 1¼ inches; Weight per Dozen 6 lbs. $4 30

One Set in a Box



Verona

30 Pieces; Hardwood; Embossed with Crown Design; Polished Red and Black; Box 6¾x2¾ inches, with Attractive Colored Label.

Per Dozen

No. 386—Size 1¼ inches; Weight per Dozen 6 lbs. $1 80

One Set in a Box

Yorkite

Composition; 30 Pieces, Deeply and Handsomely Embossed with Crown Design, Highly Polished, Red and Black; Box 6¾x2¾ inches, with Bright Colored Label

Per Dozen

No. 389—Size 1⅛ inches; Weight per Dozen 6 lbs. $7.50

One Set in a Box

Star

30 Pieces; Hardwood; Embossed with Star Design, Black and Natural Wood; Box 5¼x2¼ inches.

Per Dozen

No. 392—Size 1¼ inches; Weight per Dozen 8½ lbs. $0 90

One Set in a Box

CASTING MINNOWS
★DIAMOND BRAND
ULTRA

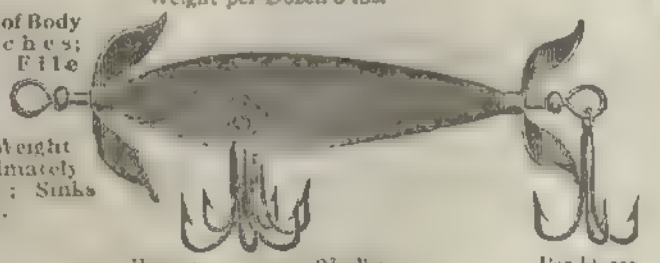
In the Design and Manufacture of Our Ultra Casting Minnows Every Detail has been Carefully Thought out with the View Always in Mind of Securing Perfection as a Fish Lure, Durability and a Bait that will "Cast" Perfectly; These Essentials are all Embodied in the Ultra, Hooks Protected with Detachable Hooks, Improved Screw Hook Eyes, Metal Sinker Weights, Brass Lugs to Allow for Proper Angle, Always Presenting Barbs to Fish so that a "Strike" Results Invariably in a "Kill"

Highest Quality Clear Air Dried Cedar, Perfectly Shaped and **Ballasted,** always keeping Minnow in Proper Position and will not Revolve and Twist the Line, Therefore Swivels are Unnecessary. Before Applying the Required Number of Coats of Brilliant Waterproof Porcelain Enamel the Cedar is Especially Treated to Prevent the Absorption of Water, so that the Enamel will not Peel or Flake Off; Large Glass Eyes; Fine Propeller Shaped **Spinners Made Right and Lefts so as to Revolve in Opposite Directions,** Being a Great Advantage in Attracting Fish from a Distance; Detachable Extra Heavy Gauge Wire, Treble Hooks, Heavily Nickel Plated to Prevent Rusting if Used in Salt Water; Brass Buildings at Sides to Straighten Line and Insure Proper Angle.

Length of Body 3⅜ inches; Five File Point Treble Hooks No. 1. Weight Approximately 18 pwts.; Sinks Slowly.

		Per Dozen
No. UC1A—Rainbow	Fig. B.	$13 00
No. UC1B—Yellow	Fig. F.	13 00
No. UC1C—White	Fig. C.	13 00
No. UC1D—Wilbourn Special	Fig. K.	13 00
No. UC1E—Red	Fig. E.	13 00
No. UC1F—Aluminum	Fig. D.	13 00
No. UC1G—Fancy Back	Fig. A.	13 00
No. UC1H—White Body; Green and Red Spotted		13 00
No. UC1I —Yellow Body; Green and Red Spotted		13 00
No. UC1K —Red Body; Black Spotted		13 00
No. UC1M—Red and White		13 00
No. UC1R—White Body; Green and Yellow Spotted		13 00
No. UC1S—White Body; Green and Red Spotted		13 00
No. UC1T—White Body; Fancy Back		13 00

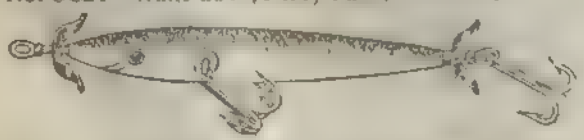
Weight per Dozen 3 lbs.



Length of Body 2¾ inches; Three File Point Treble Hooks No 2, Weight Approximately 14 pwts.; Sinks Readily.

Weight per Dozen 2¾ lbs.

		Per Dozen
No. UC2A—Rainbow	Fig. B.	$11 00
No. UC2B—Yellow	Fig. F.	11 00
No. UC2C—White	Fig. C.	11 00
No. UC2D—Wilbourn Special	Fig. K.	11 00
No. UC2E—Red	Fig. E.	11 00
No. UC2F—Aluminum	Fig. D.	11 00
No. UC2G—Fancy Back	Fig. A.	11 00
No. UC2H—White Body; Green and Red Spotted		11 00
No. UC2I —Yellow Body; Green and Red Spotted		11 00
No. UC2K—Red Body; Black Spotted		11 00
No. UC2R—White Body; Green and Yellow Spotted		11 00
No. UC2S—White Body; Green and Red Spotted		11 00
No. UC2T—White Body; Fancy Back		11 00



THE THIN ULTRA
The Very Latest Design. The Long Slender Body has Hooks Fastened to its Sides in the Very Clearest Possible Position for Efficiency

Length of Body 4¼ inches; Three File Point Treble Hooks; Weight Approximately 18 pwts.

	Per Dozen
No. UCSG—Fancy Black	$13 50
No. UCSA—Rainbow	13 50
No. UCSC—White	13.50

All Above, Twelfth Dozen in a Wood Box; One Dozen in a Carton

CASTING MINNOWS
★DIAMOND BRAND
ULTRA

"MUSKIE" TROLLING MINNOW

Designed specialy for Muskellunge, Pike, Pickerel, and other large inland water fish; also adapted Salt Water fish

Length of body 5 inches; Five file Point Treble Hooks, No. 1 weight approximately 2 ozs.

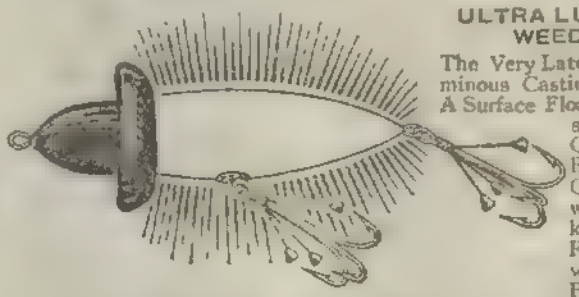
	Per Dozen
No. UC5H—White Body with Red and Green Spotted Decorations	$26 40
No. UC5A—Rainbow Color	26.40

Twelfth Dozen in a Box; Weight Per Dozen about 3½ lbs.

Length of Body 3¾ inches; Three File Point Treble Hooks No. 2; Weight approximately 18 pwts.

	Per Dozen
No. USMC—White Body; Red Head	$16 00
No. USMA—Rainbow	16 00
No. USMH—White Body; Green and Red Spotted	16.00

Twelfth Dozen in a Box



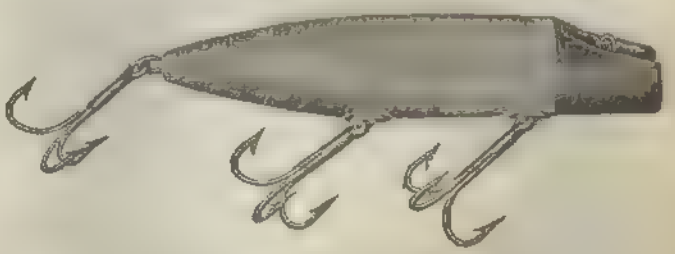
ULTRA LUMINOUS—WEEDLESS

The Very Latest Design Illuminous Casting Bait Made. A Surface Floating Line, Designed for Catching Black Bass and other Game Fishes which are well known Night Feeders; Coated with a Special Preparation for Absorbing either Daylight or Bright Artificial Light, Radiating same.

Length of Body 3½ inches; Two Extra Heavy Treble, Weedless Hooks, One on Body and one on Tail; Weight Approximately 14 pwts.

	Per Dozen
No. UCM—Luminous Body; Red Head	$16.00

Twelfth Dozen in a Box



Its peculiar shape gives it a Diving, Wabbling and Swimming motion just like a live minnow; No Spinners

Length of Body 3¾ inches; 3 File Point Treble Hooks No. 2; Weight approximatly 14 pwts.

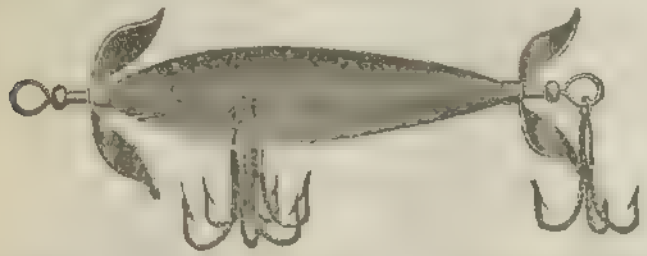
	Per Dozen
No. UWC— White Body; Red Head	$13.50
No. UWE— Red	13.50
No. UWA—Rainbow Color	13.50
No. UWG—Green Mottled	13.50
No. UWF—Silver Body; Red Head	13.50
No. UWH—White Body; Green and Red Spotted	13.50

Twelfth Dozen in a Box; Weight per Dozen about 2½ lbs.

CASTING MINNOWS
★TRIUMPH

The Body Hooks on the Triumph Minnows are **Connected by a Split Link,** [illegible] the Head Pin which Passes Through the Body and into the Socket Provided for the Purpose in the After Part of the Body; The Head Pin also Acts as Line Attachment and Spinner Axle and the **Entire Minnow can be Easily Dismembered by Unscrewing the Head Pin;** The Tail Hooks are Provided with a Detachable Pin same as the Head Pin.

Clear Air Dried Cedar, Shaped and Ballasted to Always Keep Minnow in Proper Position; Large Glass Eyes; Fine Propeller Shaped Spinners, Polished Nickel Both Sides, Mounted on Easy Bearings Turned from Solid Brass; Spinners Made Right and Lefts so as to Revolve in Opposite Directions; Detachable Treble Hooks.



Length of Body 2⅝ inches; Three Spear Point Treble Hooks No. 2; Weight Approximately ⅝ oz.

	Per Dozen
No. TM2A—Fancy Back	$10.00
No. TM2B—Rainbow	10.00
No. TM2C—Blended White	10.00
No. TM2D—Red	10.00
No. TM2E—Black Mottled Back; Yellow Belly	10.00
No. TM2F—Lt. Green Mottled Back; White Belly	10.00

Weight per Dozen 2¾ lbs.
Twelfth Dozen in a Box

Length of Body 3½ inches; Five Spear Point Treble Hooks No. 1; Weight Approximately 1½ ozs.

	Per Dozen
No. TM1A—Fancy Back	$12.00
No. TM1B—Rainbow	12 00
No. TM1C—Blended White	12 00
No. TM1D—Red	12 00
No. TM1E—Black Mottled Back; Yellow Belly	12 00
No. TM1F—Lt. Green Mottled Back; White Belly	12.00

Weight per Dozen 3 lbs.
Twelfth Dozen in a Box

RUSH TANGO

For Casting and Trolling. Has all the life like motions of a minnow in action. It Darts and Dives in various directions, always wiggling like a fast swimming minnow. When not in action it floats.

***Regular Size**

Length of Body 5 inches; Two Spear Point Treble Hooks No. 1; Weight approximately 1 oz.

	Per Dozen
No. RT1—White, Luminous	$12 00
No. RT2—White Body, Red Head	12 00
No. RT3—White, Yellow and Green Mottled Back	12 00
No. RT4—White, Red, Green Mottled Ba	12 00
No. RT5—Yellow Body, Red Head	12 00
No. RT6—Yellow, Red and Green Mottled Back	12 00
No. RT8—Red	12 00

Junior Size

Length of Body 3⅞ inches; Two Spear Point Treble Hooks No. 2. Weight approximately ½ oz.

	Per Dozen
No. RTJ2—White, Red Head	$12 00
No. RTJ3—White, Yellow and Green Mottled Back	12 00
No. RTJ5—Yellow Body, Red Head	12 00
No. RTJ8—Red	12 00

Twelfth Dozen in a Box; Weight per Dozen about 2½ lbs

CASTING MINNOWS
★DIAMOND SUBMARINE

A Very Attractive Lure, Easily Manipulated by the Angler to Float, Dive, Dance, Wiggle, Wobble or Swim; Extremely Durable, Perfect Ballast; Body Made from Clear Cedar, Finished in Highest Quality Enamel which Will Not Peel or Crack, Nickel Plated Bushings, Removable Hooks; Length of Body 4 Inches, Two No. 1/0 Treble Hooks, Weight Approximately 18 dwts.

	Per Dozen
No. DW1—Rainbow	$12.00
No. DW2—Frog Back	12.00
No. DW3—Yellow Body, Green and Red Spotted	12.00
No. DW4—White Body, Green and Red Spotted	12.00
No. DW5—Variegated Stripes on Back and Down Sides	12.00
No. DW6—White Body, Red Tip	12.00

Weight per Dozen 2½ lbs.
Twelfth Dozen in a Box

★MIZZOO

The Body Hooks on the Mizzoo Minnows are **Connected by Two** Brass Wire Links [illegible] in Position by the Head Pin which Passes Through the Body and into the Socket Provided for the Purpose in the After Part of the Body; the Head Pin also Acts as Line Attachment and Spinner Axle and the **Entire Minnow Can Be Easily Dismembered by Unscrewing the Head Pin.**

Clear Air Dried Cedar, Shaped and Ballasted, Always Keeps Minnow in Proper Position; Fine German Silver Propeller Shaped Spinner, Polished Both Sides, Mounted on Easy Bearings Turned from Solid Brass; Detachable Treble Hooks.

	Per Dozen
No. MM5—Length of Body 3½ inches; Five Spear Point Treble Hooks No. 1; Heavily White Enameled; with Assorted Red and Green Backs; Weight Each approximately [illegible]	$7.50

Twelfth Dozen in a Box; One Dozen on a Card

	Per Dozen
No. MM—Length of Body 2½ inches; Three Spear Treble Point Hooks No. 1; Heavily White Enameled; with Assorted Red and Green Backs; Weight Each Approximately ¾ oz.	$3 00

One Dozen on a Card; 6 with Red Backs and 6 with Green Backs in a Box

NOTE—We will not Sell Less than One Dozen No. MM Minnows

Street Signs Road Guide Posts Traffic Signs

The Kind That Last

Made of Heavy Galvanized Iron with letters sunken into plate.

If you are looking for *permanent* signs instead of the short lived ordinary variety write to us for prices, illustrations and further particulars.

Union Iron Products Co.
Drawer H-2 E. CHICAGO, IND.

Littleford Tar Heaters

Many municipalities have found the **"Littleford"** a valuable and economical asset in Street Repair work.

Write for booklet.

LITTLEFORD BROS. 500 E. Pearl St., Cincinnati

We will demonstrate to the satisfaction of any State or County Official that

THE ONE MAN COLLAPSIBLE CULVERT FORM

Adjustable for 39 Different Sized Culvert Openings

Will Cut Culvert Costs Tremendously

This form makes possible the Permanent Concrete Culvert at Small Cost.

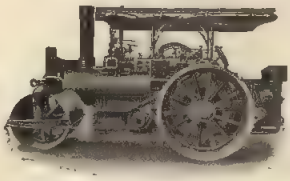
Don't Specify or Build Culverts of any type until you have read our Booklet—sent on request.

Permanent drainage at reasonable cost is what you want. Our booklet shows you how to build Culverts from the smallest to the largest of Concrete at a surprising saving in cost over other methods. Metal Pipe, Vitrified Tile and Cement Tile are all compared and figures given. Write for the booklet. Sent without charge on request.

Storms Manufacturing Company 347 Monadnock Block CHICAGO, ILL.

We can also supply special designs and sizes of collapsible forms for storm sewers (leased on percentage basis).

QUALITY MACHINERY



BUFFALO PITTS ROLLERS

Are purchased by discriminating buyers because of the many years of satisfactory service which they will render, the low repair costs and their general reliability.

ASK THOSE WHO OWN THEM

All sizes All Types Write for catalogue

Built only by

THE BUFFALO-SPRINGFIELD ROLLER COMPANY
SPRINGFIELD, OHIO

Collieries Supply and Equipment Co.

Culvert Pipe and Road Machinery

Contractors, Road Makers and Municipal Supplies

Sectional Cast Iron Culvert Pipe Corrugated Iron Culvert Pipe Scarifiers Road Signs Road Scrapers Road Drags Rock Crushers Road Rollers Write for Prices

14 North Fifth Street Philadelphia Pa.

SOUTHERN CLAY MFG. CO.

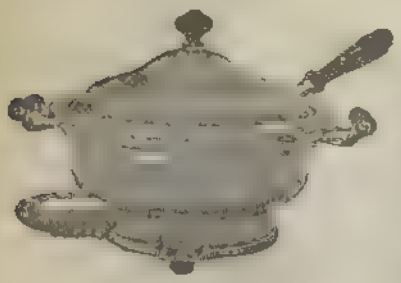
James Building
CHATTANOOGA. TENN

Annual Capacity:
Thirty Million Paving Blocks

Manufacturers of

WIRE-CUT-LUG BLOCKS
DUNN PATENT

UNIVERSAL ELECTRIC HOME NEEDS

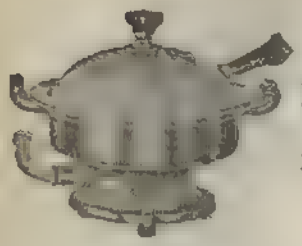


ELECTRIC CHAFING DISHES

Food pan made of Copper; inside lined with tin, silver finish; Two Heat; fast and slow connections.

	Each
No. E921—Weight 6 lbs.	$16 80 12.00

One in a Carton



ELECTRIC CHAFING DISH

Heavy Copper throughout; Inside of food pan lined with tin, silver finish; [illegible] lbs., Two Heat; Fast and Slow connections.

	Each
No. E920—Weight 5½ lbs.	$21 00 15 00

One in a Carton

ELECTRIC CHAFING DISH AND DISC STOVE

Food pans made of copper, inside lined with tin, silver finished; Two Heat, Fast and Slow.

	Each
No. E9810—Weight 6½ lbs.	$17.50 12.50

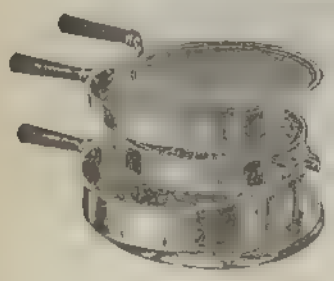
One in a Carton

ELECTRIC CURLING IRON AND HAIR DRYER

Mahoganized Handle; Detachable swivel connecting plug prevents binding of the cord; Nickel Plated Iron; Comb of Aluminum.

Nos	Height	Weight	Each
E989	13 inch	1 lb.	$5.30 3.75
E9891	13 inch	1 lb.	6.30 4.50

One in a Carton



ELECTRIC ROUND RADIANT GRILL

Nickel Plated Frame. Ebonized Handles. Fibre Feet. Diameter of Top, 8 inches. Height over all, 6½ inches.

FOUR HEATS

Equipped with six foot mercerized silk finish flexible cord.

	Each
No. E981—Weight 6 lbs.	$9.10 6.50

One in a Carton

ELECTRIC IMMERSION HEATER

Has removable wire rack attached to base which allows Heater to stand upright in glass.

Patented plug which can be disconnected with one hand. Complete with six foot mercerized silk finish flexible cord.

	Each
No. E970—Weight 1 lb.	$3 50 2.00

Packed individually in cartons.

UNIVERSAL ELECTRIC HOME NEEDS

ELECTRIC IRON

Nickel Plated Base and Hood, Ebonized Handles. Equipped with six foot cord.

With Tip-up Stand.

	Each
No. E902—Weight 6 lbs.	$7 00 5.00

One in a Carton

ELECTRIC IRON

Nickel Plated Base and Hood; Ebonized Handle; Detachable Plug equipped with six-foot Cord [illegible] able Heat-Proof Spring Stand.

	Each
No. E905—Weight 6 lbs.	$7 00 5.00

One in a Carton

ELECTRIC IRON

Nickel Plated Base and Hood; Ebonized Handle; Detachable Plug; Equipped with Six Foot Cord; Reversible Heat Proof Spring Stand.

SNAP SWITCH PLUG

	Each
No. E9081—Weight 6 lbs.	$9 10 6 50

One in a Carton

ELECTRIC TOURIST IRON

Nickel Plated Base and Hood; Ebonized Separable Handle; Equipped with six foot Cord; Equipped with reversible stand and Velvet bag for traveling. When inverted it is used for Ironing out Ribbons, Laces, Velvets, etc., and as a small stove for heating water. Has hole in end for heating a Curling Iron.

	Each
No. E9021—Weight 3 lbs.	$7.00 5.00

One in a Carton

FANSTEEL ELECTRIC IRON

Base Blue Steel, Nickel Plated Hood; Black Enameled Handle; Equipped with Six Foot Cord; Detachable Plug, with Stand.

	Each
No. F—Weight 6 lbs.	$6 30

One in a Carton

DOVER ELECTRIC IRON

Base Blue Steel, Nickel Plated Hood; Handle Enameled Black, Rubberoid finish, six foot Cord; Detachable plug, with stand.

	Each
No. 6—Weight 6 lbs.	$7.50

One in a Carton

ELECTRIC RECTANGULAR GRILL

Nickel Plated Frame, Ebonized Handles. Fibre Feet. Heating Surface, 7⅝x4 ⅛ inches. Depth of Frying Pan, 1¼ inches; Depth of Boiling Pan, 2 inches; Depth of Griddle, ¼ inch; Furnished with six foot mercerized silk finish flexible cord and seven point contact terminal plug.

	Each
No. E981—Weight 6 lbs.	$7 70 5.50

One in a Carton

NICKEL PLATED WARE

CASSEROLES

"UNIVERSAL"

WITH HALL VITRIFIED CHINA LININGS

ROUND

OVAL

These Casseroles with colored bodies are genuine Hall Vitrified China Cooking Ware. They are fireproof and are **guaranteed not to craze or crack** from the heat of the fire. Hall cooking ware is perfectly sanitary, as food cannot be absorbed through cracks or through glazed or chipped edges thereby causing the vessel to [illegible] and many times [illegible] cooking ware. It is positively non-absorbent. Because of their great toughness and durability Hall Vitrified China Casseroles will outlast many ordinary pieces. The increased initial expense is small and we urgently recommend them to all those who wish the most sanitary, durable and economical cooking ware made.

OLIVE GREEN VITRIFIED CHINA LINING

Nos.	Finish	Length	Capacity	Each
76297N	Nickel Plated	7 ins.	2 pints	$6 50
76298N	Nickel Plated	8 ins.	3½ pints	8 00

One in a Carton

OLIVE GREEN VITRIFIED CHINA LINING

Nos.	Finish	Length	Capacity	Each
75298N	Nickel Plated	8 ins.	2½ pints	$8 50
75299N	Nickel Plated	9 ins.	4 pints	9.00

One in a Carton

ROUND

OVAL

These Casseroles with colored bodies are genuine Hall Vitrified China Cooking Ware. They are fireproof and are **guaranteed not to craze or crack** from the heat of the fire. Hall cooking ware is perfectly sanitary, as food cannot be absorbed through cracks or through glazed or chipped edges thereby causing the vessel to [illegible] and many times [illegible] cooking ware. It is positively non-absorbent. Because of their great toughness and durability Hall Vitrified China Casseroles will outlast many ordinary pieces. The increased initial expense is small and we urgently recommend them to all those who wish the most sanitary, durable and economical cooking ware made.

SEAL BROWN VITRIFIED CHINA LINING

Nos.	Finish	Length	Capacity	Each
76287N	Nickel Plated	7 ins.	2 pints	$7 00
76288N	Nickel Plated	8 ins.	3½ pints	7 50

One in a Carton

SEAL BROWN VITRIFIED CHINA LINING

Nos.	Finish	Length	Capacity	Each
75288N	Nickel Plated	8 ins.	2½ pints	$8 00
75289N	Nickel Plated	9 ins.	4 pints	8 50

One in a Carton

UPHOLSTERERS HAMMERS

★DIAMOND EDGE

Adze Eye; with Claw; Highly Polished Crucible Steel Head; Extra Quality Polished Hickory Handle.

Per Dozen

No. DE80—Head 5¾ inches long; length over all 10½ inches; Weight per Dozen 7 lbs. $8 50

Half Dozen in a Box.

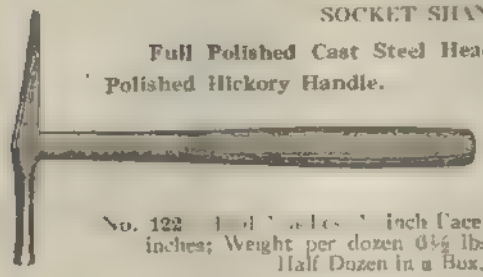
SOLID HEAD AND SHANK

Polished Steel One-Piece Head, Shank and Handle Bar; Polished Rosewood Inlaid Handle Side Pieces.

Per Dozen

No. 67—Head [illegible] inches; Assorted Faces, ⅜ and [illegible] inch; Length over all [illegible] inches; Weight per dozen [illegible] lbs. $18 00

Half Dozen in a Box.



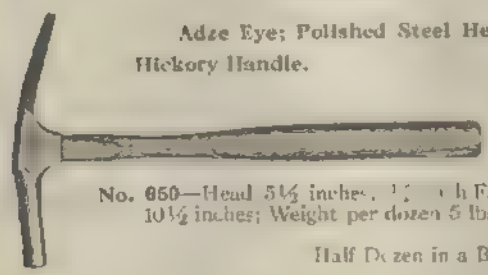
SOCKET SHANK

Full Polished Cast Steel Head and Socket Shank; Polished Hickory Handle.

Per Dozen

No. 122—Head [illegible] inch Face; length over all [illegible] inches; Weight per dozen 6½ lbs. $11 00

Half Dozen in a Box.

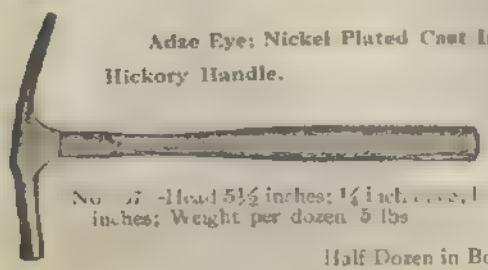


Adze Eye; Polished Steel Head with Claw; White Hickory Handle.

Per Dozen

No. 650—Head 5½ inches; [illegible] inch Face; length over all 10½ inches; Weight per dozen 5 lbs. $5 50

Half Dozen in a Box.



Adze Eye; Nickel Plated Cast Iron with Claw; White Hickory Handle.

Per Dozen

No. [illegible]—Head 5½ inches; ¼ inch [illegible] over all 10½ inches; Weight per dozen 5 lbs $2 20

Half Dozen in Box.

TACK CLAWS

★BRIDGE

Forged Steel Tempered Shank and Claw; Stained Hardwood Handle; Nickel Plated Brass Ferrule.

Per Dozen

No. B15—Length 7 in.; ¼ in. Shank; Weight per Dozen 2 lbs..... $2.00

One Dozen in a Box

STERLING KANT BREAK

Nickel Plated Malleable Iron Shank; Reinforced Tempered Steel Claw Riveted to Heel; Stained Hardwood Handle

Per Dozen

No. KB—Length 6½ in.; Weight per Dozen 2 lbs $1.80

One Dozen in a Box

BILL POSTERS HAMMERS

MAGNETIC

Magnetic Nickel Plated Forged Steel Head; Nickel Plated Trimmings; Polished Ash Handle; The Jointed Sections are Interchangeable.

Per Dozen

No. 502—Weight 5 oz. 4x½ inches; with Jointed Handle, Two 18 inch Sections; Weight per Dozen 11 lbs..... $36 00

No. 803—Weight 8 oz., 4½x⅝ inches; with Jointed Handle, Three 15 inch Sections; Weight per Dozen, 14 lbs... 53 00

Half Dozen in a Box

MAGNETIC HAMMER HEADS

Without Handle

Magnetized Nickel Plated Forged Steel Head; Nickel Plated Trimmings; Polished Ash Handle.

Per Dozen

No. 500—Weight 5 ozs.; 4x½ inch; Weight per Dozen 4½ lbs $21 00

No. 800—Weight 8 ozs.; 4½x⅝ inch; Weight per Dozen 6⅜ lbs. 27 00

One Dozen in a Box

HANDLES AND ATTACHMENTS

Per Dozen

No. J36—**Jointed Handle,** Two Sections; 36 inches; Weight per Dozen 6 lbs. $18.00

No. P36—**Plain Handle,** One Piece; 36 inches; Weight per Dozen 5 lbs. 8 00

No. P24—**Plain Handle,** One Piece; 24 inches; Weight per Dozen 3 lbs 8 00

No. CA—**Spring Attachment** for Card and Tacks; Weight per Dozen ½ lb. 4 50

CARPET STRETCHERS

Japanned Cast Iron Frame and Socket. Stamped Steel Face with Claws Riveted On.

Per Dozen

No. 1—Claw Face [illegible] inch Socket; Length 35⅛ inches; Weight per Dozen 6 lbs.... $2 00

One Dozen in a Box

Full Polished Cast Steel, with Socket

Per Dozen

No. 2—Claw Face 2½ inch [illegible] ¾ inch Socket Hole; Length Over All [illegible], Weight Each 4 ozs; Wt. per Dozen 3[illegible] lbs. $3 00

One Dozen in a Box

UNHANDLED HAMMERS AND SLEDGES

STONE MASONS HAMMERS

Axe Finish; Painted Box; Pointed Face and Pein; Oval Eye; Used by Stone Cutters and Masons for Breaking and Dressing Stone.

No. SM—Single Face

Weight, Lbs.	3	3½	4	4½	5	5½	6	7	8
Per Lb.	$0.55	.55	.55	.55	.50	.50	.50	.50	.50
	.44	.44	.44	.44	.40	.40	.40	.40	.40

Loose

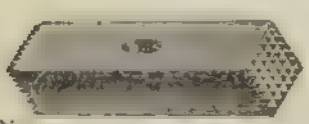
Axe Finish, Painted Box; Pointed Face and Pein, Oval Eye, Used by Stone Cutters and Masons for Breaking and Dressing Stone.

No. SMT Toothed

Weight, Lbs.	3	3½	4	4½	5	5½	6	7	8
Per Lb.	$0.60	.60	.60	.60	.55	.55	.55	.55	.55
	.48	.48	.48	.48	.44	.44	.44	.44	.44

Loose

BUSH HAMMERS

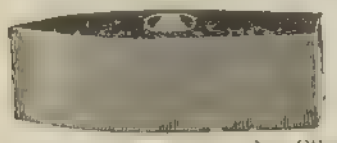


Oval Eye Solid Cast Steel, Oil Finished 7 Rows, 49 Teeth, Octagon Face, 8 Rows, 64 Teeth, Octagon End.

Nos.	B7	B8
Weight, lbs.	7	8
Per Lb.	$1.00	1.00
	1.20	1.20

Loose.

SPALLING HAMMERS



Solid Cast Steel; Oil Finish; Polished Face and Pein; Oval Eye.

No. SS Single Face

Weight, Lbs.	4	5	6	8	10	12	14	16
Per Lb.	$0.50	.40	.40	.40	.40	.40	.40	.40
	.36	.28	.28	.28	.28	.28	.28	.28

Loose

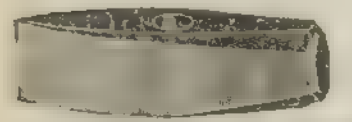
Solid Cast Steel, Oil Finish; Polished Faces; Oval Eye.

No. DS Double Face

Weight, Lbs.	4	5	6	8	10	12	14	16
Per Lb.	$0.50	.40	.40	.40	.40	.40	.40	.40
	.40	.32	.32	.32	.32	.32	.32	.32

Loose.

STONE SLEDGES



Solid Cast Steel; Oil Finished; Polished Face and Pein.

No. SX Single Face.

Weight, Lbs.	6	8	10	12	14	15	18
Per Lb.	$0.30	.30	.30	.30	.30	.30	.30
	.22	.22	.23	.22	.22	.22	.22

Loose

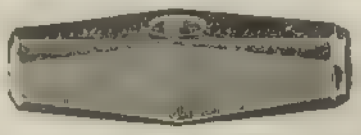
Solid Cast Steel Oil Finished; Polished Faces

No. SPM—Missouri Pattern.

Weight, Lbs.	4	5	6	7	8	10	12	14
Per Lb.	$0.40	.30	.30	.30	.30	.30	.30	.30
	.32	.22	.22	.22	.22	.22	.22	.22

Loose.

STRIKING OR DRILLING HAMMERS

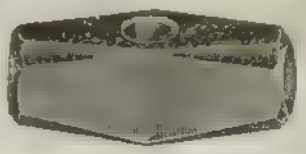


Solid Cast Steel, Oil Finish; Polished Faces.

No. LPN Nevada Long Pattern.

Weight, Lbs.	3	3½	4	4½	5	6	7
Length, Inches	5¼	5½	5¾	6	6¼	6⅝	7
Per Lb.	$0.40	.40	.40	.40	.30	.30	.30
	.32	.32	.32	.32	.22	.22	.22
Weight, Lbs.	8	10	12	14	16	18	
Length, Inches	7¼	7¾	8⅛	8½	8¾	9⅛	
Per Lb.	$0.30	.30	.30	.30	.30	.30	
	.22	.22	.22	.22	.22	.22	

Loose.



Solid Cast Steel, Oil Finish; Polished Faces.

No. SPO Oregon (Short) Pattern.

Weight, Lbs.	3	3½	4	4½	5	6	7
Length, Inches	4½	4⅝	5	5⅛	5⅜	5⅝	6
Per Lb.	$0.40	.40	.40	.40	.30	.30	.30
	.32	.32	.32	.32	.22	.22	.22
Weight, Lbs.	8	10	12	14	16	18	
Length, Inches	6¼	6¾	7¼	7⅝	8	8¼	
Per Lb.	$0.30	.30	.30	.30	.30	.30	
	.22	.22	.22	.22	.22	.22	

Loose

Note—In the Copper Mining Country 4 lb. Striking Hammer is called a "Single Jack." 8 lb. Hammer is called a "Double Jack."

NAPPING HAMMERS

Solid Cast Steel, Oil Finish

No. NH

Weight, lbs.	3	3½	4	4½
Per lb.	$0.40	.40	.40	.40
	.32	.32	.32	.32

Loose

HAND DRILLING HAMMERS

Solid Steel, Oil Finish; Polished Faces

No. HD California Pattern

Weight, lbs.	3	3½	4	4½	5
Per lb.	$0.50	.50	.50	.50	.50
	.40	.40	.40	.40	.40

Loose

MACADAMIZING HAMMERS

Solid Steel, Oil Finish; Round Eye

No. M

Weight, Lbs.	1	1½	2
Per Lb.	$0.60	.60	.60

Loose

BLACKSMITH SLEDGES

Solid Crucible Steel; Oil Finish; Oval Eye; Hardened and Polished Faces

No. BLD Double Face

Weight, Lbs.	8	9	10	12	14
Length Inches	6½	6¾	7¼	7⅝	7⅞
Diameter Face, Inches	2½	2⅝	2¾	2⅞	2¾
Per Pound, All Sizes					$0.30
					.22

Loose

Vises

Utility Time Saving Vise

Fig. 785
(1) Holds Overhanging Pieces Firmly

Fig. 786
(2) Instantly Holds Work Vertical

Fig. 787
(3) Holds Work Absolutely Parallel to Table

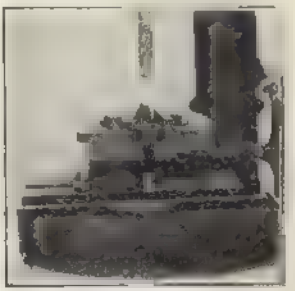


Fig. 788
(4) Holds Irregular Shapes Without Loss of Time

Fig. 789
(5) Deep Jaws Hold Difficult Work Firmly

Fig. 790
(6) Handy When Your Centering Machine is Busy

(See next page)

Vises

Utility Time Saving Vise

It saves money by cutting out the time your machinists lose hunting for clamps, bolts, washers, etc

It saves the annoyance of hunting for angle plates, squares parallel-strips, etc by having a four-side revolving jaw a regular turret arrangement each face of which is arranged to hold an infinite variety of work One side has a machined steel face corresponding with the front jaw Another face is machined the full depth for use as an angle plate Other faces have accurately machined horizontal and vertical grooves for holding rounds, squares, octagons etc

It's carefully made All sides of the revolving jaw are carefully machined Bolts nuts and other steel parts, are machine finished and case-hardened The bed is machined top and bottom and has a flange on end its entire length, permitting it to being secured to the table in any position

It's extremely handy for doing die mould, tool or repair work, holding as it does an infinite variety of shapes holding them quickly firmly and accurately It can be used on any machine having a horizontal table like the miller, shaper planer, tapper, or drill press and will pay back its cost in the first few weeks of operation

Specifications

	No 1	No 2
Length of bed	11 inches	19¾ inches
Total length over screw projection	12 inches	22½ inches
Greatest width over base flange	4⅜ inches	7½ inches
Standard height	3⅞ inches	6½ inches
Greatest height with supplementary jaws	4⅜ inches	8⅛ inches
Depth of jaws	2¼ inches	4½ inches
Square of jaws	2¼ inches	4½ inches
Front jaw adjustment with screw	1¼ inches	3¼ inches
Back jaws slide from center of bed	2½ inches	5¼ inches
Full opening between jaws	3¼ inches	8½ inches
Full opening between supplementary jaws	4 inches	9½ inches
Total weight without supplementary jaws	20 pounds	82 pounds
Total weight with supplementary jaws	22½ pounds	88½ pounds
Dimensions box for export	14 x 6 x 6 inches 35 pounds	24 x 9 x 8 inches 100 pounds

Prices

	No 1	No 2
Price plain, steel faced	$20 00	$26 00
Price fitted with supplementary jaws	23 50	31 00
Price with supplementary jaws steel faced	25 00	35 00

Complete with wrenches f. o. b. factory

BENCH VISES

VICTOR JERSEY

Fitted Just Like a Machinists Vise, with Loose Malleable Iron Nut, which Causes the Screw and Square Box Slide to Work Smooth and Easy; Jaws are Carefully Ground and Come Square Together on the Face

Brown Japanned Cast Iron Body; Polished Jaws and Screw and Steel Shoeing Bar.

STATIONARY BOTTOM

To Clamp

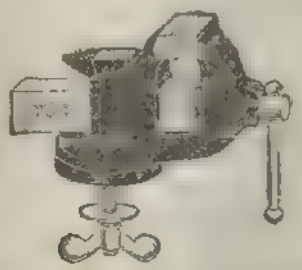
PLAIN IRON JAWS

Nos.	741	742	743	744	745	746
Width of Jaws, In.	1½	1¾	2	2¼	2½	3
Length Closed, In..	5⅛	5¾	6	6¼	7	8¼
Weight Each, Lbs..	3	3¼	3½	4	5	8¼
Each	$1.80	2.20	2.60	3.30	3.60	5.50

STEEL FACED JAWS WELDED

Nos.	761	762	763	764	765	766
Width of Jaws, In..	1¾	1¾	2	2¼	2½	3
Length Closed, In..	5⅛	5¾	6	6¾	7	8¼
Weight Each, Lbs..	3	3¼	3½	4	5	8¼
Each	$2.30	2.70	3.30	3.60	4.50	6.00

Loose



SWIVEL BASE; STEEL FACED JAWS

Nos.	772	773	774	775	776
Width of Jaws, Inches	1¾	2	2¼	2½	3
Length Closed, Inches	5¾	8¼	6¼	7	8¼
Weight Each, Lbs.	3	3½	4½	5½	9½
Each	$2.70	3.30	3.80	5.00	6.50

Loose

ASSORTMENTS WITH DISPLAY STAND

VICTOR JERSEY BENCH VISES

Cast Iron Standards, Black Painted with Silver Gray Let[illegible]; Maple Ring and Base Jaw[illegible]

Done[illegible] Spec[illegible] 13X12½ inches, Height 5 inches closed.

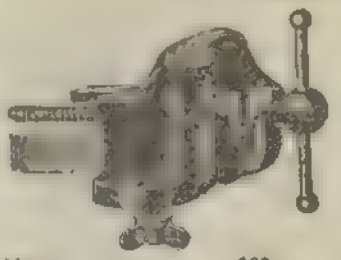
ASSORTMENTS; WITH DISPLAY STAND

	Per Assortment
No. BX12—Twelve Vises and Stand; Weight 64 lbs	$35.00

Nos.	741	742	743	744	745	746	761	763	772
Quantities	2	2	2	1	1	1	1	1	1

One Assortment Complete in Case

BENCH VISES



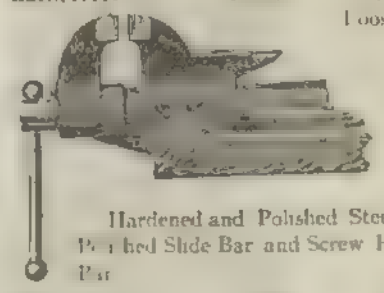
SHEPARD STATIONARY

Used as Stationary or Swivel Bottom Vise; Equipped with Central Bolt, Nut and Washer for Fastening to Bench; also Provided with Bolt Holes for Permanently Securing to Bench.

Japanned Cast Iron Body; Welded Steel Face; Parallel Jaws; Polished Steel Screw and Sliding Handle; Polished Jaws and Slide.

Nos.	160	161	161½	162	163
[illegible]	2	2½	3	3½	4
[illegible]	2	3	[illegible]	4	6
[illegible]	8	9½	11	11⅝	15
[illegible]	4	10	[illegible]	16	30
Each	$4 50	5 50	7 00	8 00	11.00

Loose



EMPIRE, STATIONARY

[illegible]

These Vises are made entirely of Steel and every Part Guaranteed against Breakage; Defective Parts Replaced Free of Charge.

Hardened and Polished Steel Jaw [illegible]; Japanned Steel Body; Polished Slide Bar and Screw Head; [illegible] Steel Sliding Handle Bar.

Nos.	E25	E30	E35	E40
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Jaws Open, [illegible]	[illegible]	4	4½	[illegible]
[illegible]	[illegible]	15	20	[illegible]
Each	$[illegible] 00	6 00	8.00	10.00
	6 00	8 00	8.00	10.00

FARMERS OVAL SLIDE, TO SCREW

Used by Farmers, Carpenters, Repair Shops, Blacksmiths and for General Work Anywhere. Cast Iron, Japanned; with Polished Steel [illegible] Polished Steel Screw [illegible] Sliding Handle.

Nos.	30	33	34	35
[illegible]	[illegible]	3	3½	[illegible]
Jaws open, in.	4⅜	5	5½	[illegible]
Depth Open, in.	2 1-16	2½	3 [illegible]	[illegible]
Length Closed, in	10	13	15	[illegible]
[illegible]	[illegible]	12	18	[illegible]
Each	$4 00	5 00	[illegible] 00	9.00

Loose

BONNEY

With Plain Jaws

Cast Iron, Japanned; Polished Slide Edges, Jaws and Anvil Face; Solid Steel Screw and [illegible] Handle; Malleable Thumb Screw.

For All Light Work; Used by Metal and Wood Workers, Farmers [illegible]

Nos.	B1	B2	B4
Width Jaws, Inches	1½	2	2¾
Jaws Open, Inches	2¼	2½	3¼
Weight Dozen, Lbs	16	30	64
Per Dozen	$9.00	13.00	35.00

Loose

BONNEY

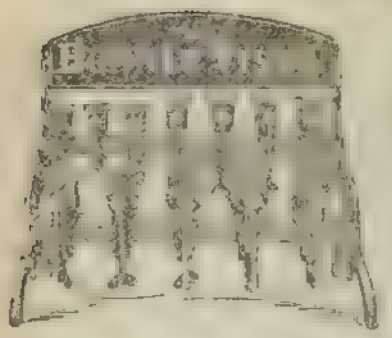
With Swivel Jaw Attachment

Self Adjusting for Holding Taper Surfaces

No. B7 Has Steel Faced Jaws

Nos.	B3	B7
Width Jaws, Inches	2¼	[illegible]
Jaws Open, Inches	3¼	[illegible]
Weight Dozen, Lbs.	35	[illegible]
Per Dozen	$27 00	[illegible]

VISE ASSORTMENTS



BONNEY

Embracing Five Styles of Bonney Vises with 28 inch Black Japanned Iron Display Stand

Per Assortment

No. B—12 Vises; Assorted Three No. B1, Four No. B2, Two No. B3, Two No. B4, One No. B7; Weight per Set, Complete [illegible] $22 00

One Assortment in a Case

HAND VISES

MILLERS FALLS

Detachable Hollow Cocobolo Han[illegible]th Screw Cap, conta[illegible]g Chisel, [illegible]w Drivers, Countersink, Square [illegible], Brad Awl, Scratch Awl and Washer Cutter; [illegible] with Bit Shank [illegible] Bit, [illegible]dle [illegible] Bit [illegible] [illegible] [illegible] [illegible]ed and Temp[illegible] Plated and [illegible] Screw

Per Dozen

No. 1—Length 6¾ inches; Width of [illegible] 1½ inches; Weight per D[illegible] $48 80

One in

MILLERS FALLS

[illegible]ed Cocobolo Handle.

[illegible]ipped with Bit Stock Shank for use in a Bit [illegible]

Forged Steel Vise; Nickel Plate[illegible] Po[illegible] Extra Large Steel Screw.

Per [illegible]

No. 2—Leng[illegible] inches; [illegible] Jaw [illegible] meter of Screw [illegible] Weight per Dozen [illegible] lbs. . . $45 60

One in a box

MILLERS FALLS

[illegible], well Tem[illegible], Polished [illegible] a heavy [illegible]g and closed with a Thumb Nut and Screw Bolt

Per Dozen

No. 3 [illegible] $13 00

BENCH VISES

LUTHER

Made of good quality material[illegible] mate of steel and travel[illegible] Handle guides, [illegible], no weak pla[illegible] these vises can w[illegible]

C[illegible]eel with Steel Guides [illegible] Steel Jaws, [illegible]

[illegible] $3 50

[illegible]

BENCH VISES

LUTHER

Of good quality material; are all heavy and well braced; jaws are made of steel and travel on steel guides; impossible for them to become sprung or get out of alignment. The feed is arranged so that a very tight grip can be secured; base is broad and rigid; can be fastened to block or bench; handle guides, jaws and screws are all of steel; no weak places where these vises can wear out.

Cast Steel with Steel Guides and 3 inch Steel Jaws, 5 inch Extension equipped with Luther Special Pipe Jaws.

Each

No. V71—Weight 15 lbs. . $5 80

Loose

Cast Steel with Steel Guides and 2¼ inch Steel Jaws; 3½ inch Extension.

Each

No. V85—Weight 9 lbs. . $3.00

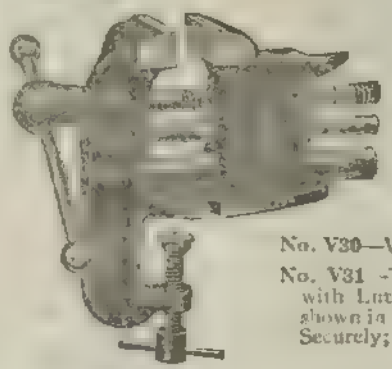
Loose

Cast Steel with Steel Guides and 1¼ inch Iron Jaws; 3½ inch Extension; Width of Clamp 1¼ inches.

Per Dozen

No. V60—Weight 2 lbs. $5.76

Loose



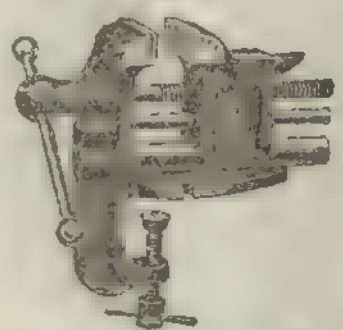
Cast Steel with Steel Guides and 3 inch Steel Jaws; 4½ inch [illegible]ension.

Each

No. V30—Weigh[illegible] 11½ lbs. $6.10

No. V31 -The Same as No. V30, but with Luther Special Pipe Jaws as shown in Cut of No. V71; Will Hold Securely; Weight 15 lbs. 6 50

Loose



Cast Steel with Steel Guides.

[illegible]	V15	V17	V20	V22	V25
[illegible]		1¾	2	2¼	2½
[illegible] Jaws, [illegible]		2¼	2½	2¾	[illegible]
[illegible]		3½	5	7	[illegible]
[illegible]	$1 78	2.16	2.96	3.70	4 40

Loose

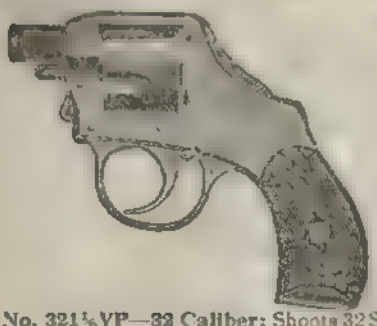
REVOLVERS

VICTOR

Double Action; 2 inch Round Barrel; Small frame; Nickel Plated; Rubber Handle.

	Each
No. 322—32 Caliber; 7 Shots; Weight 7½ ozs.; Shoots 22 SRF or 22 LRF Cartridges	$3.70
No. 322RF—32 Caliber; 5 Shots; Weight 9 ozs.; Shoots 32 SRF or 32 LRF Cartridges	3.70
No. 322—32 Caliber; 5 Shots; Weight 9 ozs.; Shoots 32 S&W CF Cartridges	3 70

One in a Box



VEST POCKET

Double Action; 1⅛ Inch Round Barrel; Nickel Plated; Rubber Handle; Weight 8½ ozs., 5 Shots.

	Each
No. 321⅛VP—32 Caliber; Shoots 32 S&W CF Cartridges	$4 50

One in a Box.

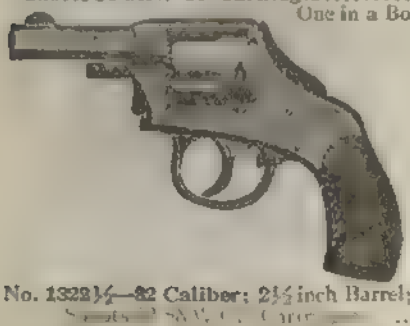
AMERICAN

Double Action, Octagon Barrel, Rubber Handle.

Nickel Plated

	Each
No. 322 RF—32 Caliber; 2 inch Barrel, Weight 16 ozs.; 6 Shots; Shoots 32 S&W CF Cartridges	$4 50
No. 32[illegible]—32 Caliber; 2½ inch Barrel, Weight 15 ozs., 6 Shots, [illegible]	3 70
No. 321—32 Caliber, 3½ inch Barrel, Weight 17 ozs.; 6 Shots; Shoots 32 S&W CF Cartridges	5 00
No. 326—32 Caliber; 6 inch Barrel; Weight 18 ozs., 6 Shots; Shoots 32 S&W CF Cartridges	5.50
No. 382[illegible]—38 Caliber; 2½ inch Barrel; Weight 15 ozs.; 5 Shots; Shoots S&W CF Cartridges	3 70
No. 3[illegible]—38 Caliber; [illegible] inch Barrel, Weight 3 ozs., 5 Shots Shoots 38 S&W CF Cartridges	5 00
No. 386—38 Caliber; 6 inch Barrel; Weight 17 ozs.; 5 Shots; Shoots 38 S&W CF Cartridges	5 50

One in a Box



SAFETY HAMMER

Double Action; Octagon Barrel, Nickel Plated; Rubber Handle.

	Each
No. 1322½—32 Caliber; 2½ inch Barrel; Weight 16 ozs.; 6 Shots; Shoots S&W CF Cartridges	$4.80
No. 1382½—38 Caliber; 2½ inch Barrel; Weight 15 ozs.; 5 shots; Shoots 38 S&W CF Cartridges	4 80

One in a Box

REVOLVERS

U. S. HAMMER

Double Action; Automatic Ejecting.

22 Caliber; 5 Shots; Small Frame; Rubber Handle; Shoots 22 R. F. Cartridges.

Nickel Plated	Each
No. 223TH—3 inch Barrel; Weight 12 ozs.	$8.70
No. 225TH—5 inch Barrel; Weight 14 ozs.	9.70
Blued	
No. 2223TH—3 inch Barrel; Weight 12 ozs.	$9.20
No. 2225TH—5 inch Barrel; Weight 14 ozs.	10 20

32 Caliber; 5 Shots; Shoots 32 S&W Central Fire Cartridges.

Nickel Plated	Each
No. 323TH—3 inch Barrel; Weight 12 ozs.	$8.70
Blued	
No. 2323TH—3 inch Barrel; Wt. 12 ozs.	9 20
No. 2326TH—5 inch Barrel; Wt. 14 ozs.	10 20

38 Caliber; 5 Shots; Regular Frame; Rubber Handle; Shoots 38 S&W Central Fire Cartridges

Nickel Plated	Each
No. 383TH—3 inch Barrel; Wt. 16½ ozs.	$8 70
No. 385TH—5 inch Barrel; Wt. 19 ozs.	9.70
Blued	
No. 2383TH—3 inch Barrel; Wt. 16½ ozs.	9 20
No. 2385TH—5 inch Barrel; Wt. 19 ozs.	10 20

One in a Box

U. S. HAMMERLESS

Double Action; Automatic Ejecting;

32 Caliber; 5 Shots; Small Frame; Rubber Handle; Shoots 32 S&W Central Fire Cartridges.

Nickel Plated	Each
No. 323THH—3 in. Barrel; Wt. 12½ ozs.	$10.20
No. 325THH—5 in. Barrel; Wt. 14¼ ozs.	11.20
Blued	
No. 2323THH—3 in. Barrel; Wt. 12½ ozs.	10 70

38 Caliber, 5 Shots; Regular Frame; Rubber Handle; Shoots 38 S&W Central Fire Cartridges.

Nickel Plated	Each
No. 383THH—3 inch Barrel; Wt. 18 ozs.	$10 20
No. 385THH—5 in. Barrel; Wt. 19½ ozs.	11.20
Blued	
No. 2383THH—3 in. Barrel; Wt. 18 ozs.	10 70

One in a Box

IVER JOHNSON REVOLVERS

DOUBLE ACTION—AUTOMATIC EJECTING

HAMMER

22 Caliber; 7 Shots, Small Frame; Rubber Handle, Shoots BB Caps 22 SRF or 22 LRF Cartridges

Nickel Plated

		Each
No. 223I—3 inch Barrel;	**Weight 12 ozs.**	**$12.00**

One in a Box

32 Caliber; 5 Shots; Small Frame; Rubber Handle; Shoots 32 S&W Central Fire Cartridges

Nickel Plated

		Each
No. 322I—2 inch Barrel;	**Weight 11 ozs. For Bicyclists**	**$12 00**
No. 323I—3 inch Barrel;	**Weight 12 ozs.**	**12 00**
No. 324I 4 inch Barrel,	Weight 13 ozs	12 50
No. 325I 5 inch Barrel,	Weight 14 ozs.	13.00

Blued

No. 2323I—3 inch Barrel;	**Weight 12 ozs.**	**12.50**
No. 2324I—4 inch Barrel;	**Weight 13 ozs**	**13 00**

One in a Box

38 Caliber; 5 Shots Regular Frame; Rubber Handle, Shoots 38 S&W Central Fire Cartridges

Nickel Plated

		Each
No. 383¼I—3¼ inch Barrel,	**Weight 17 ozs**	**$12 00**
No. 384I —4 inch Barrel;	**Weight 18 ozs.**	**12.50**

Blued

No. 2383¼I 3¼ inch Barrel,	Weight 17 ozs	12 50
No. 2384I —4 inch Barrel;	**Weight 18 ozs.**	**13 00**
No. 2385I 5 inch Barrel,	Weight 19 ozs.	13 50

One in a Box

HAMMER

PERFECT GRIP FOR TARGET WORK

32 Caliber; 5 Shots; Small Frame Rubber Handle; Shoots 32 S&W Central Fire Cartridges

Nickel Plated

		Each
No. 324ITG—4 inch Barrel;	**Weight 15 ozs**	**$13 50**

Blued

No. 2324ITG—4 inch Barrel;	**Weight 15 ozs**	**15.00**

One in a Box

38 Caliber; 5 Shots; Regular Frame; Rubber Handle; Shoots 38 S&W Central Fire Cartridges.

Nickel Plated

		Each
No. 384ITG—4 inch Barrel;	**Weight 20 ozs.**	**$14 50**

Blued

No. 2384ITG—4 inch Barrel;	**Weight 20 ozs.**	**15.00**

One in a Box

HAMMERLESS

32 Caliber; 5 Shots; Small Frame; Rubber Handle; Shoots 32 S&W Central Fire Cartridges.

Nickel Plated

		Each
No. 322IH—2 inch Barrel;	**Weight 11½ ozs. For Bicyclists**	**$13.00**
No. 323IH —3 inch Barrel;	**Weight 12½ ozs.**	**13 00**
No. 324IH 4 inch Barrel,	Weight 13¾ ozs.	13.50

Blued

No. 2323IH 3 inch Barrel;	Weight 12½ ozs.	13 50
No. 2324IH—4 inch Barrel;	**Weight 13¾ ozs.**	**14 00**

One in a Box

38 Caliber; 5 Shots; Regular Frame, Rubber Handle; Shoots 38 S&W Central Fire Cartridges.

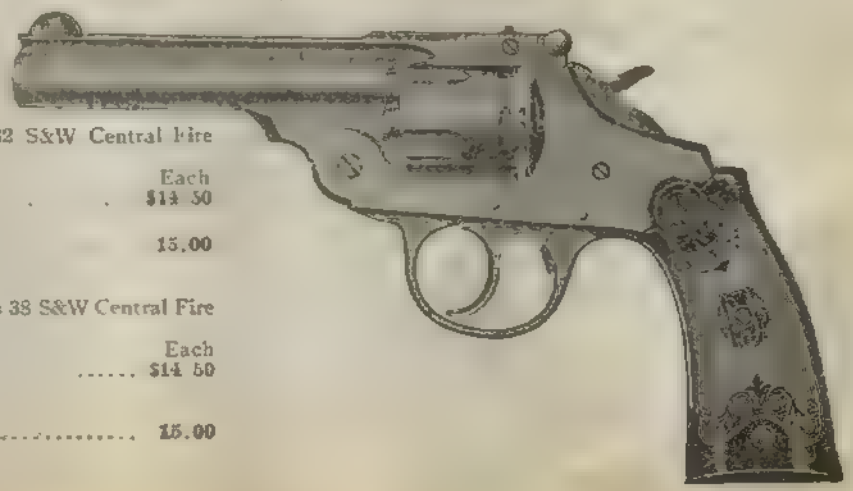
Nickel Plated

		Each
No. 383¼IH 3¼ inch Barrel	Weight 18¼ ozs	**$13 00**
No. 384IH —4 inch Barrel;	**Weight 19 ozs.**	**13 50**
No. 385IH 5 inch Barrel	Weight 19½ ozs.	14.00

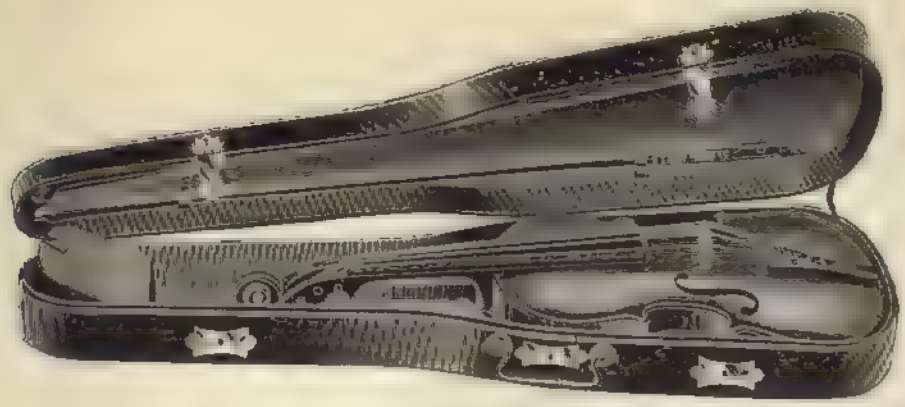
Blued

No. 2383¼IH 3¼ inch Barrel	Weight 18¼ ozs	13 50
No. 2384IH —4 inch Barrel;	**Weight 19 ozs.**	**14.00**
No. 2385IH 5 inch Barrel,	Weight 19½ ozs.	14 50

One in a Box



VIOLIN, MANDOLIN AND GUITAR OUTFITS



Not to be confounded as inferior grade outfits but which are STRICTLY THE HIGHEST GRADE ON THE MARKET

No. 930 Outfit contains one of our No. 914 Violins, red color, shaded, good model and finish, inlaid edges, maple, imitation snakewood, violin bow, ebony frog, inlaid dot, bone slide and button, wood case, black varnished, half lined with flannel, set of violin strings, one piece of rosin and **Self National Instruction Book** ..... Each $15.40

No. 9112 Outfit contains one of our No. 9451 Violins, light brown color, polished and shaded, well finished and exceptionally very durable, maple violin bow, ebony frog, inlaid dot, pearl slide, German silver and ebony button, wood case, black varnished, half lined with flannel, one set of superfine quality violin strings, one piece of rosin and **Self National Instruction Book** Each 27 75

No. 9113 Outfit contains one of our No. 9506 **Vuillaume** model Violins, light amber color, shaded, highly polished, ebony finger-board, etc., Brazil wood violin bow, leather grip, ebony frog, pearl slide, pearl eye, German silver and German silver button, fine wood case, black varnished, half lined with flannel, one set of superfine quality violin strings, one piece of rosin and **Self National Instruction Book** Each 31 40

No. 9114 Outfit contains one of our No. 9786 **Stainer** model, dark brown color, highly polished, full ebony trimmed, fine Brazil wood, octagon shape, ebony frog, pearl inlaid eye, pearl slide, German silver lined, German silver button, fine wood case, black varnished, full lined with flannel, one set of superfine quality violin strings, one piece of rosin and **Self National Instruction Book** ..... Each 41.40

No. 9115 Outfit contains one of our No. 9174 Salzard model Violins, dark red color, highly polished, fine Brazil wood, ebony frog, pearl inlaid eye, pearl slide, full German silver lined, German silver button, leather grip, finest wood case, highly black varnished and polished, exposition shape and full flame, one finest set of violin strings, one piece of rosin and **Self National Instruction Book** Each 69 40

No. 9100 This outfit contains one of our ever popular No. 91250 Guitars, which is made of solid birch, back and sides; enlarged model, [illegible] mahogany neck, solid walnut finger-board with pearl position dots, inlaid sound-hole, nickel plated tailpiece and strung with best steel strings, also one of our high grade canvas cases and a handsomely nickel plated Capo d'Astro, as shown in the illustration, a guitar thumb pick, one of our guitar tuning finger-board charts, by the use of which a player can easily master the notes and positions on the finger-board; 1 Self National Instruction Book, which not only contains the elementary instructions for playing the guitar, but also contains a number of easy and popular selections. A set of best grade steel strings, one of our guitar tuning pipes, with 6 pipes, E, B, G, D, A and E, which makes guitar tuning merely a matter of a few seconds with the youngest player $21 80

No. 9101 In this outfit we include our popular "Jupiter" Guitar, No. 9605, finished in dark mahogany, hand polished, with spruce top, fancy colored wood inlaying around sound-hole, inlaid with fancy colored wood and bound with celluloid; handsome mahogany finished neck, finger-board inlaid with pearl position dots, fitted with our own patent heads and tailpiece, strung with the best grade steel strings. The case and all other sundries included with this outfit are the same as described in Outfit No. 9100 $25 80

No. 9102 Outfit No. 9102 contains our handsome standard size "Lakeside" Guitar, No. 9620, which has a beautifully figured birch back and sides, finished in a dark mahogany, elegantly hand polished with spruce top, fancy colored wood inlaying around sound-hole. Corded inlaying around edge, and both top and back edges bound with celluloid, fancy inlaid stripe down the center of the back; the neck is finished in fine mahogany with neatly veneered head-piece, solid rosewood finger-board, pearl position dots, fitted with our own nickel plated patent head and tail-piece, strung with best grade steel strings. The case and all other sundries included in this outfit are the same as described in Outfit No. 9100 $31 40

No. 9200 This outfit contains one of our popular No. 91206 Mandolins, 9 ribs, maple and walnut, attractively inlaid sound-hole, tortoise celluloid guard plate, walnut finger-board with position dots and nickel covered tailpiece, one of our high-grade canvas cases, a Self National Instruction Book, which contains elementary instruction for playing the mandolin, and also a number of easy and popular selections, a complete set of the best grade mandolin strings, a finger-board chart, by the use of which [illegible] to on the finger-board is clearly marked, and enables the beginner to acquire accurate fingering with much less study than heretofore. Also one of our mandolin tuning pipes, with four pipes, tuned E, A, D, G, and by its use a mandolin can be tuned quickly and accurately. .. $17 60

No. 9201 This outfit contains one of our Jupiter Mandolins, No. 9501, which has 9 ribs, dark mahogany finish with black inlaying between, broad colored wood inlaying around sound-hole, and edges very neatly celluloid bound, finished throughout with a high varnish finish; spruce top, mahogany finished neck, solid rosewood finger-board, tortoise celluloid guard plate, pearl position dots, fitted with our own nickel plated patent head and nickel shell pattern tailpiece. All the accessories described in Outfit No. 9200 are contained in this outfit. $20 80

No. 9202 We include with outfit No. 9202 one of our high-grade Lakeside No. 9203 Mandolins, which has 9 ribs of rosewood and maple, neatly inlaid with rose inlaying between each rib extended rosewood apron, handsomely polished; broad colored wood inlaying around soundhole, edge inlaid with corded inlaying and cord bound, spruce top, mahogany finished neck, veneered headpiece, rosewood finger-board and tortoise shell guard plate, pearl position dots, fitted with our own patent head and nickel shell pattern tailpiece. All the accessories described in Outfit No. 9200 are contained in this outfit $24 80

CLARIONETS

Nos. 930-934

Nos. 935-939

International or New Standard Pitch is LOW PITCH
American or Concert Pitch is HIGH PITCH

In the whole field of music few instruments call for greater care in manufacture than the Clarionet. A good Clarionet becomes almost priceless to its player. Something more than is apparent at a casual glance must be comprised in a Clarionet, in order that it may afford satisfaction when in use. The instruments carried by us were selected because an experience of over forty years has proved to us that they are the best value on the market.

FRENCH MANUFACTURE

HIGH PITCH

No	95	A, Grenadilla, 6 brass keys, brass trimmed	Each	$21 60
No	96	B♭, Grenadilla, 6 brass keys, brass trimmed	Each	21 60
No	97	C, Grenadilla, 6 brass keys, brass trimmed	Each	21 60
No	98	D, Grenadilla, 6 brass keys, brass trimmed	Each	21 60
No	99	E♭, Grenadilla, 6 brass keys, brass trimmed	Each	21 60
No	930	A, Grenadilla, 10 German silver keys, German silver trimmed	Each	30 40
No	931	B♭, Grenadilla, 10 German silver keys, German silver trimmed	Each	30 40
No	932	C, Grenadilla, 10 German silver keys, German silver trimmed	Each	30 40
No	933	D, Grenadilla, 10 German silver keys, German silver trimmed	Each	30 40
No	934	E♭, Grenadilla, 10 German silver keys, German silver trimmed	Each	30 40
No	935	A, Grenadilla, with cork joints, Albert system, 13 German silver keys, 2 rings, Ger sil trim	Each	51 20
No	936	B♭, Grenadilla, with cork joints, Albert system, 13 German silver keys, 2 rings, Ger sil trim	Each	51 20
No	937	C, Grenadilla, with cork joints, Albert system, 13 German silver keys, 2 rings, Ger sil trim	Each	51 20
No	938	D, Grenadilla, with cork joints, Albert system, 13 German silver keys, 2 rings, Ger sil trim	Each	51 20
No	939	E♭, Grenadilla, with cork joints, Albert system, 13 German silver keys, 2 rings, Ger. sil. trim	Each	51 20
No	970	A, Grenadilla, with cork joints, Albert system, 15 Ger sil keys (Ex. B♭ and C sharp), two rings, German silver trimmed	Each	63 60
No	971	B♭, Grenadilla, with cork joints, Albert system, 15 Ger sil keys (Ex. B♭ and C sharp), two rings, German silver trimmed	Each	63 60
No	972	C, Grenadilla, with cork joints, Albert system, 15 Ger. sil. keys (Ex. B♭ and C sharp), two rings, German silver trimmed	Each	63 60
No	973	D, Grenadilla, with cork joints, Albert system, 15 Ger sil keys (Ex. B♭ and C sharp), two rings, German silver trimmed	Each	63.60
No.	974	E♭, Grenadilla, with cork joints, Albert system, 15 Ger sil. keys (Ex. B♭ and C sharp), two rings, German silver trimmed.	Each	63 60

With four roller keys. German silver finger holes.

No	975	A, Albert system, Grenadilla, 15 German silver keys (Ex. B♭ and C sharp), 2 rings	Each	$84 80
No	976	B♭, Albert system, Grenadilla, 15 German silver keys (Ex. B♭ and C sharp), 2 rings	Each	84 80
No	977	C, Albert system, Grenadilla, 15 German silver keys (Ex. B♭ and C sharp), 2 rings	Each	84 80
No	979	E♭, Albert system, Grenadilla, 15 German silver keys (Ex. B♭ and C sharp), 2 rings	Each	84 80

LOW PITCH

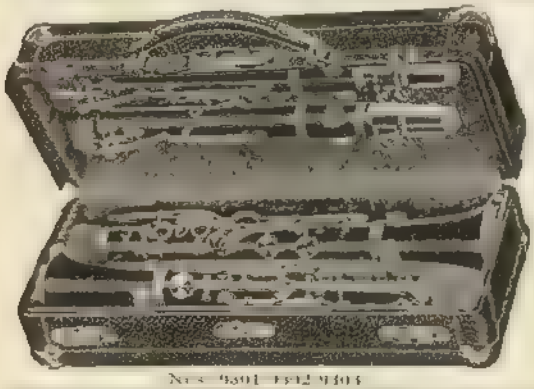
No	9170	A, Grenadilla, Albert system, 15 keys (Ex. B♭ and C sharp), 2 rings, Ger sil trim	Each	$63.60
No	9171	B♭, Grenadilla, Albert system, 15 keys (Ex. B♭ and C sharp), 2 rings, Ger. sil trim	Each	63.60
No	9172	C, Grenadilla, Albert system, 15 keys (Ex. B♭ and C sharp), 2 rings, Ger sil trim	Each	63 60
No	9174	E♭, Grenadilla, Albert system, 15 keys (Ex. B♭ and C sharp), 2 rings, Ger sil trim	Each	63 60

BONES

Full Sizes and Weights.

No	917	Rosewood, 7 inch	Set of four $0 55
No	921	Ebony, 7 inch	Set of four 1.15

Nos. 917-921



Nos. 9301-9302-9303

CLARIONET CASES

No.	91	Black Leather Case lined with handle and catch for A Clarionet either H or L pitch	Each $ 6 80
No	[illegible]	Black Leather Case lined with handle and catch for B[illegible] either H or L pitch	Each 6 80
No	93	Black Leather Case lined with handle and catch for C[illegible] either H or L pitch	Each 6 80
No	94	Black Leather Case lined with handle and catch for D[illegible] clarionet	Each 6 80
No	[illegible]	Black Leather Case lined with handle and catch for E[illegible] clarionet	Each 6 80
No	96	Black Seal Grain Leather Covered Case, flannel lined, with handle and lock for 2 Clarionets	Each 15 20
No	97	Black Seal Grain Leather Covered Case, flannel lined with hook clasps and lock for 3 Clarionets	Each 16 05
No	9301	Black Pebbled Leather, full plush lined, leather handle, nickel lock, clasps and catches for 1 Clarionet	Each 14 85
No	9302	Same as No. 9301, for 2 Clarionets	Each 21 65
No	9303	Same as No. 9301, for 3 Clarionets	Each 28 60

CYMBALS

BRASS, OUR "OWN-MAKE."

No	9107	7 inch, with leather handles	Per Pair	$ 5 75
No	9108	8-inch, with leather handles	Per Pair	8 00
No.	9109	9-inch, with leather handles	Per Pair	10 00
No	9110	10-inch with leather handles	Per Pair	13 60
No	9111	11 inch with leather handles	Per Pair	15 80
No	9112	12-inch with leather handles	Per Pair	17 40
No	9113	13-inch with leather handles	Per Pair	18 80

Full Measurements.

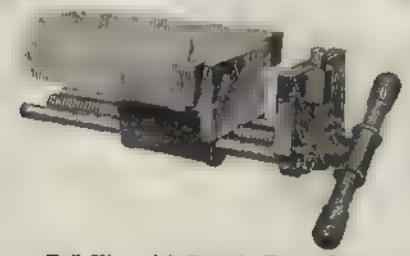
WOODWORKERS' VISES

WILCOX RAPID ACTING

Head or Side Vise

Japanned iron, jaws with working surfaces ground and finished, steel guides. Screw is cut with single threads, 4 to 1 in. Instantaneous adjustment

	Width Jaw, in.	Depth Open'g, in.	Jaws Open, in.	Weight Pounds	Each
No. 230	7	4	10	29½	$6 00
No. 232	10	5	12	39½	7.20



Tail Vise with Stop in Front Jaw

Japanned iron jaws with working surfaces ground and finished, steel guides. Screw is cut with single threads, 4 to 1 in. Instantaneous adjustment.

	Width Jaw, in.	Depth Open'g, in.	Jaws Open, in.	Weight Pounds	Each
No. 230S	7	4	10	29½	$6 60
No. 232S	10	5	12	39½	7.80

MACHINISTS' VISES

KEYSTONE

Solid Jaw, Stationary Base

Cast iron body, japanned, with polished steel-faced jaws, steel screw, electric welded head.

	Width Jaw, in.	Depth Open'g, in.	Jaws Open, in.	Weight Pounds	Each
No. B	2¼	1½	3	5	$ 3.40
No. D	3	2¼	4	15	6.00
No. F	3½	2½	5	22	7.60
No. G	4	3	6	33	9.00
No. H	4½	3¼	7	48	12.00

KEYSTONE CHIPPING

Solid Jaw, Stationary Base

Cast iron body, japanned, with polished steel-faced jaws, electric welded steel screw.

	Width Jaw, in.	Depth Open'g, in.	Jaws Open, in.	Weight Pounds	Each
No. I	5½	4¼	9	80	$18.00

PIPE VISES

REED COMBINATION

Solid Jaw, Swivel Base

Cast iron body, japanned, with polished slide and steel-faced jaws. The pipe jaws are milled from solid tool steel bars, tempered. The front pipe jaw is reversible. Polished steel screw.

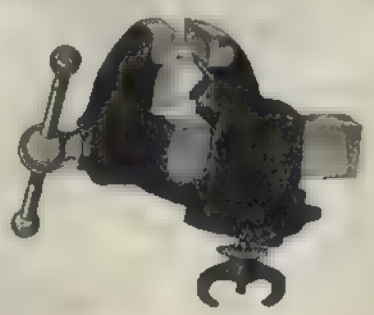
	Width Jaw, in.	Depth Open'g, in.	Jaws Open, in.	Weight Pounds	Each
No. 31	3½	4	⅛ to 2½	46	$16.00
No. 32	4½	5	⅛ to 3½	72	22.00
No. 33	5	6¼	⅛ to 4½	119	32.00
No. 34	6	8¼	⅛ to 6	178	45.00

COLUMBIAN COMBINATION

Malleable iron body, japanned, with polished slide and steel faced jaws. The pipe-jaws are made from tool steel with milled teeth, tempered to withstand the hardest usage. The front pipe jaw is reversible. The screw is forged from one solid steel billet.

Solid Jaw, Stationary Base

	Width Jaw, in.	Holds Pipe, in.	Each
No. C103½	3½	⅛ to 2½	$16.00
No. C104½	4½	⅛ to 3½	22 00
No. C105	5	⅛ to 4½	32 00
No. C106	6	⅛ to 6	45 00



Solid Jaw, Swivel Base

	Width Jaw, in.	Holds Pipe, in.	Each
No. C203½	3½	⅛ to 2½	$16 00
No. C204½	4½	⅛ to 3½	22.00
No. C205	5	⅛ to 4½	32.00
No. C206	6	⅛ to 6	45.00

PIPE VISES

EUREKA COMBINATION

Malleable iron body, with polished slide and steel-faced jaws. The pipe-jaws are cut and milled from best quality of tool steel A strong, durable, medium-priced vise.

Solid Jaw, Stationary Base

	Width Jaw, in.	Holds Pipe, in.	Each
No. C132½	2½	⅛ to 1	$10.00
No. C133	3	⅛ to 1½	12.00
No. C133½	3½	⅛ to 2	16.00
No. C134½	4½	⅛ to 3	20 00
No. C135	5	⅛ to 4	28 00
No. C136	6	⅛ to 6	35 00

Solid Jaw, Swivel Base

	Width Jaw, in.	Holds Pipe, in.	Each
No. C232½	2½	⅛ to 1	$10 00
No. C233	3	⅛ to 1½	12.00
No. C233½	3½	⅛ to 2	16.00
No. C234½	4½	⅛ to 3	20.00
No. C235	5	⅛ to 4	28 00
No. C236	6	⅛ to 6	35 00

WHITTINGTON

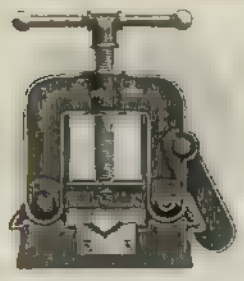
Malleable iron body, steel jaws which firmly grip pipe without any pressure from the screws. Will operate in any position and can be attached anywhere. Weight 4 lbs. each.

Each

No. 2—Capacity ⅛" to 2" pipe..... ...$4.50

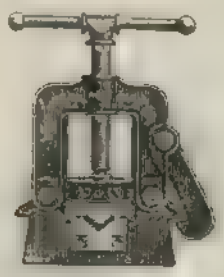
PIPE VISES

[illegible]



Extra heavy malleable iron frame, self locking. Jaws are milled from solid tool steel, hardened and tempered. The base has a flat bottom so that it may be bolted on a bench, post, or wagon bottom.

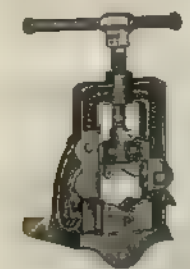
	Holds pipe inches	Weight pounds	Each
No. 61	⅛ to 2½	13	$ 10.00
No. 62	⅛ to 3½	19	15.00
No. 63	⅛ to 4½	28	25.00
No. 64	⅛ to 6	48	50.00
No. 65	1 to 8	80	100.00
No. 66	1½ to 12	140	150.00



Malleable iron frame, self locking. Jaws solid tool steel, hardened and tempered. The base has a flat bottom so that it may be bolted on a bench, post, or wagon bottom.

	Holds pipe inches	Weight pounds	Each
No. 700	⅛ to 1½	5	$ 6.00
No. 70	⅛ to 2	8	7.50
No. 71	⅛ to 2½	11	10.00
No. 72	⅛ to 3½	14	15.00
No. 73	⅛ to 4½	20	[illegible]

ARMSTRONG'S



Malleable iron frame, self locking, with steel jaws. The base has a flat bottom so that it may be bolted on a bench, post, or wagon bottom.

	Holds pipe inches	Weight pounds	Each
No. 0	⅛ to 2½	11	$ 8.00
No. 1	⅛ to 2½	16	10.00
No. 2	⅛ to 4½	30	20.00

VULCAN CHAIN PIPE VISES

Jaws are of drop forged steel, tempered, hand-made chains.

	Holds pipe inches	Weight pounds	Each
No. 1V	⅛ to 2	4	$ 3.50
No. 2V	¼ to 4	10	7.50
No. 4V	¾ to 8	30	18.00

OVAL SLIDE VISES

Malleable iron, dead black finish, ends and tops of jaws, lever and anvil are polished.

	Width Jaw inches	Weight pounds	Each
No. 4	2	7	$1.75
No. 5	2½	7½	2.00
No. 6	3	12	2.40
No. 7	3½	19½	3.00
No. 8	4	30	4.40

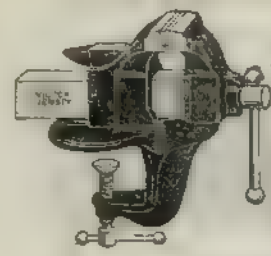
BONNEY CLAMP VISES

Iron Jaws

The main screws are made from steel castings. The head and collar is in one solid piece. Thumb screws are machine threaded.

	Width Jaw inches	Weight pounds	Per Dozen
No. 1	1¼	1¼	$3.75
No. 1½	1¾	1½	5.00
No. 2	2	1¾	6.50
No. 3½	2¼	2¾	8.50
No. 4	2¾	4½	18.50

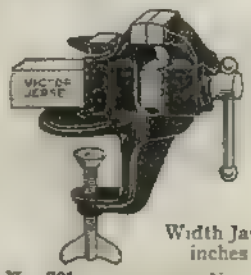
JERSEY VISES



The screw (body, head and collar) is in one piece, turned from cold rolled steel and has a square, lathe-cut thread. The steel jaws are hardened and ground. Japanned finish.

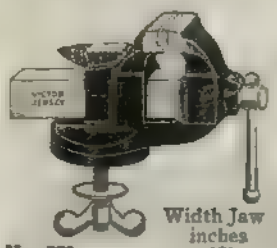
Clamp Base, Plain Iron Jaws

	Width Jaw inches	Weight pounds	Each
No. 741	1½	3	$1.10
No. 742	1¾	3¼	1.35
No. 743	2	3½	1.55
No. 744	2¼	4	1.85
No. 745	2½	5	2.15
No. 746	3	8¾	3.35



Clamp Base, Hardened Tool Steel Jaws

	Width Jaw inches	Weight pounds	Each
No. 761	1½	3	$1.40
No. 762	1¾	3¼	1.60
No. 763	2	3½	1.90
No. 764	2¼	4	2.15
No. 765	2½	5	2.50
No. 768	3	8¾	3.75



Swivel Base, Hardened Tool Steel Jaws

	Width Jaw inches	Weight pounds	Each
No. 772	1¾	3	$1.60
No. 773	2	3½	1.90
No. 775	2½	5½	2.85
No. 776	3	9½	3.90

JERSEY VISE ASSORTMENTS

These vises are furnished in assortments, which include an attractive display stand holding twelve vises.

Assortment No. 12—

Consists of two each Nos. 741, 742, 743; one each Nos. 744, 745, 746, 761, 763 and 772. Complete with 12 vises and display stand ..... Each $16.00

TROLLEY FISHING OUTFIT

WAGNER

Trolley Fishing is well known by all lake fishermen. It is the best fishing from pier or boat or a high place beside a river. It is done by throwing out a heavy line with an Automatic Anchor attached to the end. When Anchor has caught, pull line as tight as possible, then fasten to a stick or tree, then let Trolley run out on this line with a regular fishing line and as many hooks as you like. (See illustration.) Attached to an Alarm Bell gives you a chance to use more Trolleys and a Rod.

AUTOMATIC ANCHORS

For Trolley Fishing, Anchoring Small Boats when Hunting or Fishing; Also for Anchoring Decoys.

In throwing out this Anchor it Opens Automatically. To haul in Pull Line Tight and let go at once, this will loosen Anchor and Close it up Automatically so it can be hauled in easily.

Per Gross

No. AC—Made of Malleable Iron with Steel Folding Wires; Length Over All 6¾ inches; Weight each 14 ozs.; Weight per Gross 143 lbs. **$72.00**

One Dozen in a Box

TROLLEY SINKERS

The best Trolley made, can be opened by stem by pressing lever in and then pushing sideways; Has three Brass Pulleys; the middle pulley catches line below when pulling up, thus preventing line from cutting in corner of fork and saving the line.

Per Gross

No. T7—Triple Trolley; Weight each 8 ozs.; Wt. per Gross 90 lbs. **$96.00**

One Dozen in a Box

TROLLEY SINKERS

Per Gross

No. T2—With Brass Fork and Brass Pulley; Weight each 4½ ozs.; Weight per Gross 48 lbs. **$36.00**

One Dozen in a Box

ALARM BELLS

To be used for Throw Line or Trolley Fishing from a Boat or Pier.

Per Gross

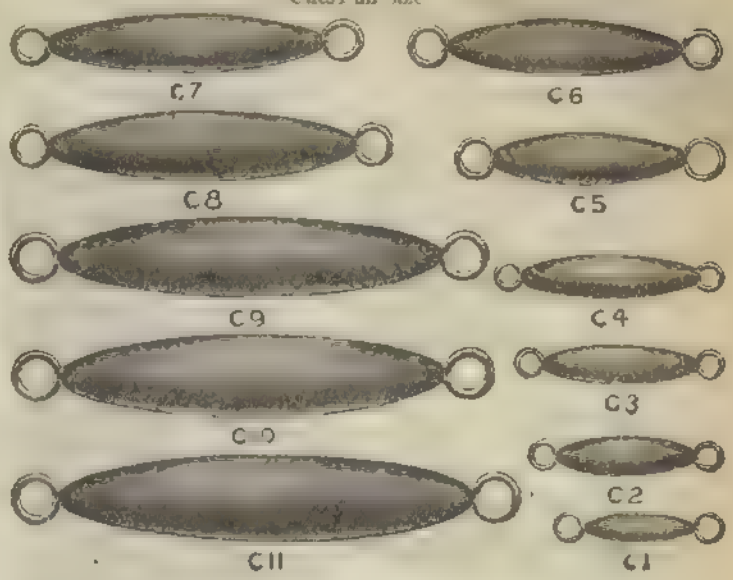
No. AB—Length 7⅛ inches; Metal Base with Screw; Upright Steel Spring with Spring Wire Coil to Fasten to Line; Weight per Gross 9 lbs. **$14.40**

Two Dozen in a Box

SINKERS

★DIAMOND BRAND

Cuts Full Size

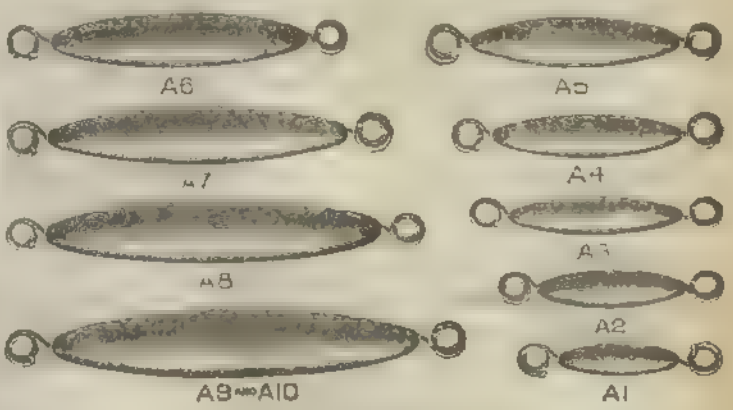


RINGED

Nos.	C1	C2	C3	C4	C5	C6
Weight Gross, lbs.	⅝	1⅛	1⅛	1¾	2⅝	3½
Per Gross	$1.80	2.00	2.20	2.80	4.00	6.00

Nos.	C7	C8	C9	C10	C11
Weight Gross, lbs.	5	7	8¾	13	16½
Per Gross	$7.00	9.60	13.50	16.80	19.20

Nos. C1 to C7 One Gross in a Box; Balance Half Gross in a Box



PATENT ADJUSTABLE

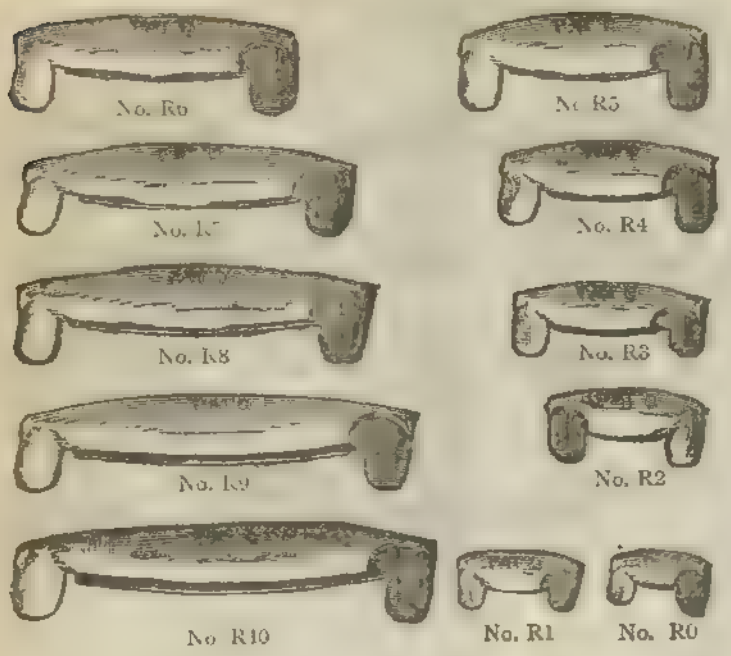
Nos.	A1	A2	A3	A4	A5
Weight Gross, lbs.	⅝	1⅛	1¾	1⅞	2½
Per Gross	$1.80	2.00	2.20	2.70	3.00

Nos.	A6	A7	A8	A9	A10
Weight Gross, lbs.	3½	5	7	8¾	13
Per Gross	$4.50	7.00	9.60	13.50	18.00

Nos. A1 to A7, One Gross; Nos. A8, A9, A10, Half Gross in a Box

SINKERS
★DIAMOND BRAND

Cuts Full Size



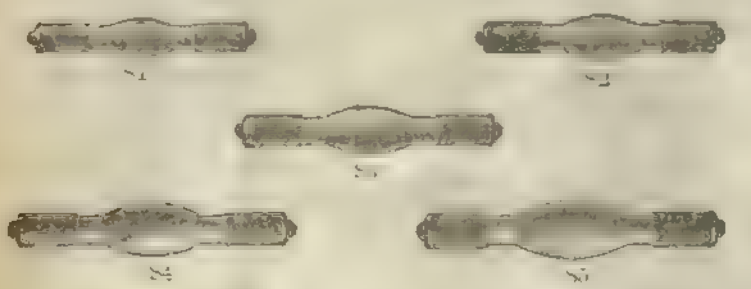
RANGELEY PATTERN

By a Single Half Turn of the Thumb and Finger this Sinker Can be Securely Fastened to any Position on the Line. When Necessary it can be as Easily Removed in the Same Manner.

Nos	R0	R1	R2	R3	R4	R5
Weight Gross, lbs	⅝	⅞	1½	1¾	3	4½
Per Gross	$1 80	2 00	2 30	3 00	4 50	5.50

Nos	R6	R7	R8	R9	R10
Weight Gross, lbs	4¾	5⅛	6½	7¼	9
Per Gross	$7 00	9 60	12 00	13 50	

Nos. R0 to R5, One Gross; Balance, Half Gross in a Box



★TRIUMPH PATENT ADJUSTABLE SPRING CAP SINKERS

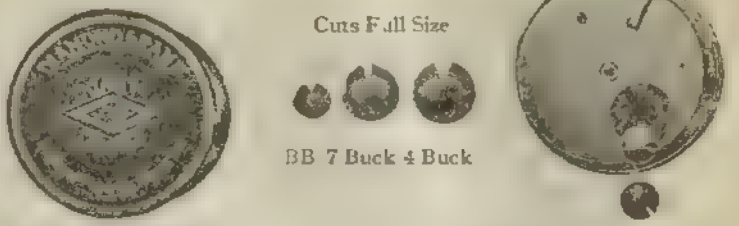
These Sinkers can be Adjusted instantly as follows: Pull the Brass Caps down, insert the Line under the Hook of Cap, then close the Cap to secure Line in place; this fastens the Line; the Brass Spring inside the Cap holds the Line firmly.

Nos.	S1	S2	S3	S4	S5
Weight Gross, lbs.	1	1⅛	1¼	1⅜	1½
Per Gross	$6 60	8 00	9.00	10.80	12 00

One Gross in a Box;

SINKERS
★DIAMOND BRAND

SPLIT SHOT



Cut shows Front View of Box

Cut shows Rear View of Box also of the Revolving Slide Cover

In Fancy Tin Boxes

These Boxes are made of Heavy Tin, are handsomely Lithographed in Gold, Red and Black Colors with our Diamond Brand Trade Mark; Have Revolving Slide Covers on Back with 7-16 inch opening; Size of Boxes 1⅝x1⅛ inch; easily slips into Vest Pocket.

Nos	DBBS	D7BS	D4BS
Size Shot	BB	7 Buck	4 Buck
Weight per Dozen Boxes, Ozs.	5	16	24
Per Dozen Boxes	$1.60	1.70	1.80

One Dozen Sinkers in a Tin Box; One Dozen Boxes in a Carton

★DIAMOND BRAND

In Turned Wood Boxes

Nos	BBS	7BS	4BS
Size Shot	BB	7 Buck	4 Buck
Weight Boxes, Ozs	5	16	24
Per Dozen Boxes	$0 40	.80	90

One Dozen Sinkers in a Wood Box; One Dozen Boxes in a Carton.

FLY SINKERS

The latest Improvement in Fly Sinkers; Simple Light and Strong; Made of Bright Steel Wire with Patent Snap Lock. Requires less work in Rigging and Operating than any other.

Per Gross

No. K—Weight per Gross, 10 ozs. $12.00

Loose

CASTING WEIGHTS

Made of Wire with Several Coats of White Enamel. This is an Unusually Well Balanced Attractive Weight.

Per Dozen

No. CW½—Length 2½ inches; Greatest Diameter, about ⅝ inch; Weight each ½ ounce $4 00

No. CW¼—Length 2¼ inches; Greatest Diameter, about ½ inch; Weight each ¼ ounce 3 50

One in a Box

Prices Quoted are for Complete Watches

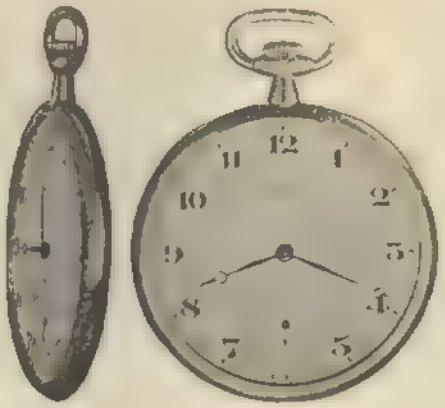
THE PREMIER MAXIMUS

Twenty-three of the finest diamond, ruby and sapphire jewels that it is possible to obtain; three pairs of diamond caps; balance, pallet and escape pivots running on diamonds; jeweled main wheel bearings, and plate jewels in raised gold settings.

It is adjusted with the utmost accuracy to climatic variations in temperature, isochronism and five positions. Timed in its case before it leaves the factory.

No. 8717	18K Solid Gold O. F. Case	$680.85
No. 8718	14K Solid Gold O. F. Case	652.50

"COLONIAL A" WATCHES



18K. OPEN FACE, JOINTED CASE

No. 8719	Maximus, 21 Jewels, Five Positions	$428.40
No. 8720	Riverside, 19 Jewels, 5 Positions	255.30

14K. OPEN FACE, JOINTED CASE

No. 8721	Maximus, 21 Jewels, Five Positions	$397.15
No. 8722	Riverside, 19 Jewels, Five Positions	228.40

Supplied with Gilded or Silvered Metal Dials only.

"Colonial A" Watches can be supplied in special hand-made cases. Prices on application.

Delivered from factory in attractive display boxes

COLONIAL SERIES

18K. GOLD HUNTING CASE

No. 8723	Maximus, 23 J., 5 Pos.	$385.60
No. 8724	Riverside, 19 J., 5 Pos.	226.95
No. 8725	Royal, 17 J., 5 Pos.	189.40

14K. GOLD OPEN FACE JOINTED CASE—With Cap

No. 8726	Maximus, 23 J., 5 Pos.	$346.80
No. 8727	Riverside, 19 J., 5 Pos.	207.40
No. 8728	Royal, 17 J., 5 Pos.	169.95

14K. GOLD HUNTING CASE

No. 8729	Maximus, 23 J., 5 Pos.	$334.75
No. 8730	Riverside, 19 J., 5 Pos.	185.85
No. 8731	Royal, 17 J., 5 Pos.	150.45
No. 8732	No. 1425, 17 J.	136.20

14K. GOLD OPEN FACE JOINTED CASE—With Cap

No. 8733	Maximus, 23 J., 5 Pos.	$314.90
No. 8734	Riverside, 19 J., 5 Pos.	167.40
No. 8735	Royal, 17 J., 5 Pos.	139.00
No. 8736	No. 1425, 17 J.	120.55
No. 8737	No. 1420, 15 J.	106.40

14K. GOLD OPEN FACE CALUMET CASE

No. 8738	Maximus, 23 J., 5 Pos.	$292.25
No. 8739	Riverside, 19 J., 5 Pos.	141.85
No. 8740	Royal, 17 J., 5 Pos.	114.20
No. 8741	No. 1425, 17 J.	96.45
No. 8742	No. 1420, 15 J.	85.10

GOLD FILLED HUNTING CASE

No. 8743	Maximus, 23 J., 5 Pos.	$268.10
No. 8744	Riverside, 19 J., 5 Pos.	127.65
No. 8745	Royal, 17 J., 5 Pos.	95.05
No. 8746	No. 1425, 17 J.	76.60

GOLD FILLED, OPEN FACE JOINTED CASE—With Cap

No. 8747	Maximus, 23 J., 5 Pos.	$263.65
No. 8748	Riverside, 19 J., 5 Pos.	113.15
No. 8749	Royal, 17 J., 5 Pos.	90.75
No. 8750	No. 1425, 17 J.	70.15
No. 8751	No. 1420, 15 J.	61.00

GOLD FILLED, OPEN FACE, CALUMET CASE

No. 8752	Maximus, 23 J., 5 Pos.	$263.85
No. 8753	Riverside, 19 J., 5 Pos.	113.35
No. 8754	Royal, 17 J., 5 Pos.	90.95
No. 8755	No. 1425, 17 J.	70.35
No. 8756	No. 1420, 15 J.	61.00

Above prices are for Bassine Plain Cases. Gold Filled Cases are Guaranteed for Twenty-five years

Hunting, Engraved, extra	$2.85
Open Face, Engraved, extra	2.25

OPERA WATCH

Special Ruby Movement, 17 Jewels
Adjusted to temperature and 2 positions

18K. OPEN FACE CASE

No. 8757	Regular, Plain Polished	$181.60

14K. OPEN FACE CASE

No. 8758	Regular, Plain Polished	$14.85
No. 8759	Decorated, Engraved or Monogram	

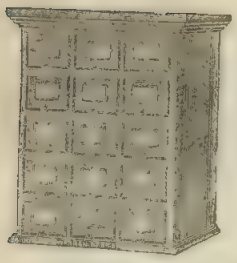
25 YEAR O. F. FILLED CASE

No. 8760	Regular, Plain Polished	$93.05
No. 876	Regular, Engraved	99.50

Also supplied in Solid Gold Octagon, Square and other shaped cases. Prices approximately as above. With Gilded or Silvered Metal Dials only. Delivered from the Factory in attractive display boxes.

✠WARREN SCREW CASES

Prices Upon Application

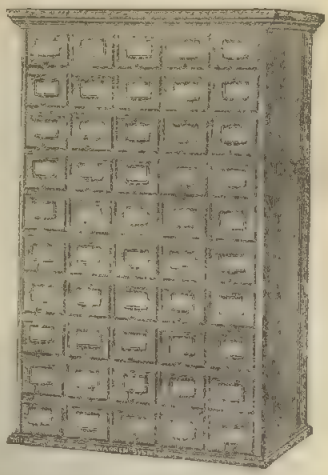


The Exterior of all Warren Screw Cases is Made of Oak, Hand-Rubbed and Polished Finish, and the Interior of Soft Wood, usually Poplar.

The Backs are Well-Seasoned, Matched and Beaded Lumber and Varnished. The Drawers have Sliding Covers so Arranged that Only One Compartment is Open at a Time.

By Removing Drawers from Screw Case, Contents of any Particular Compartment can be Emptied in the Hand or on the Counter and Returned, or Goods from Original Packages Emptied into the Different Compartments without Danger of Mixing the Different Sizes.

All Screw Case Drawers have Pull, Card Frames and Card Attached to Fronts and our Inlaid Price Card on the Side of Each, where a Record of the Size, Number, Cost and Selling Price of the Different Sizes can be kept Opposite Each Compartment.

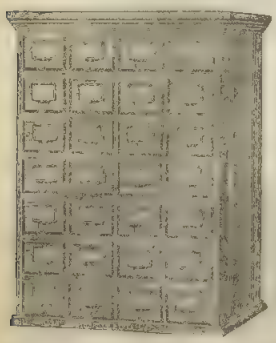


Screw Case No. 6100.—This Screw Case is 19⅝ inches high, 16½ inches wide, 15½ inches deep, and contains 15 Oak Front Drawers with Sliding Covers with Three Removable Partitions, Forming Four Compartments in Each, 60 in all.

Approximate Weight, Packed, 70 lbs.

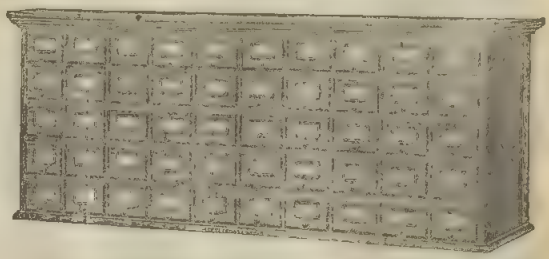
Screw Case No. 6122.—This Screw Case is 37⅛ inches high, 25⅝ inches wide, 15½ inches deep and Contains 50 Oak Front Drawers with Sliding Covers, with Three Removable Partitions, Forming Four Compartments in Each, 200 in all.

Approximate Weight, Packed, 175 lbs.



Screw Case No. 6111.—This Screw Case is 28⅝ inches high, 21 inches Wide, 15½ inches deep and contains 28 Oak Front Drawers with Sliding Covers with Three Movable Partitions Forming Four Compartments in Each, 112 in all.

Approximate Weight, Packed, 110 lbs.



Screw Case No. 6123.—This Screw Case is 19⅝ inches high, 48½ inches wide, 15½ inches deep and contains 50 Oak Front Drawers with Sliding Covers, with Three Removable Partitions, Forming Four Compartments in Each, 200 in all.

Approximate Weight, Packed 175 lbs.

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Quincy, Ill,

Complete Catalog sent on Application.

✠WARREN STANDARD "B" HARDWARE STORE FIXTURES

Missouri Tavern Oak will be furnished unless otherwise specified.

Prices Upon Application

The Warren Standard "B" Store Fixtures like all Warren's Productions are Made on the Sectional Interchangeable Unit System.

The Bases are 8 feet 4⅝ inches long, 2 feet 7⅛ inches high and 2 feet 6 inches deep. All Cabinets are 8 feet 4⅝ inches long, 4 feet 6 inches high and 1 ft. 3⅜ inches deep.

All Outside Exposures Made of White Oak. All Interior Construction of Soft Wood, usually Poplar.

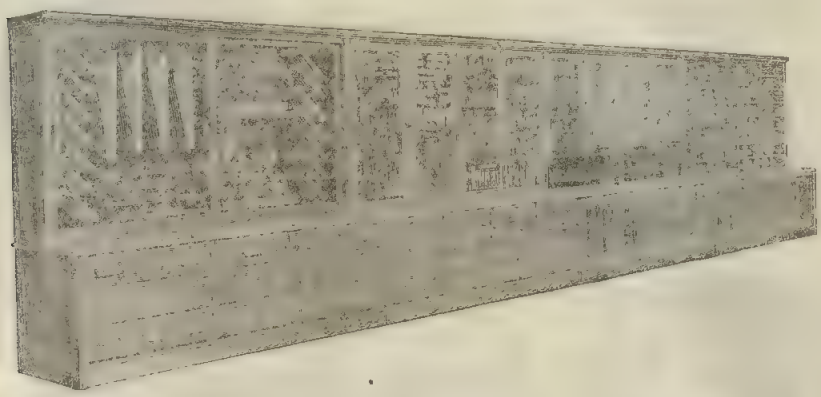
All Standard "B" Fixtures have a Matched and Beaded Back of Soft Wood Lumber, Protecting Stock from Damp Walls or Possible Loss of Goods by being Misplaced or Falling Down Back of Fixtures. All Fixtures are Built Amply Strong to Sustain the Weight of all Hardware Goods and Every Detail of Trimming is Complete, including all Brackets, Supports, Shelves, Racks, Pulls, Card Frames, Cards, etc.

The Finish for Warren Standard "B" Fixtures is "Mission Weathered Oak" and this Finish will always be sent unless Otherwise Ordered.

How to Order.—It will only be Necessary to Use the Catalogue Numbers of the Different Units Desired, in the Order they are to be Placed in the Store.

Send us a Pencil Sketch with the Numbers of the Different Units (Cabinets and Bases) inserted, showing Relative Location of each as they will be Placed in the Store.

State on which side, RIGHT or LEFT of Store as you enter the Front, Fixtures are to be Placed.



Combination No. 26.—This Combination of Fixtures arranged for LEFT Hand Side of Store as you enter the Front, is 25 feet 4⅝ inches long, 7 feet 1⅛ inches high and composed of Four Cabinet Units, Four Base Units and Four Finished End Panels as follows:

Cabinet No. 200. This Cabinet has Two Sliding Glass Doors, with Ball Bearing Sheaves, Sliding on an Inlaid Steel Track. Interior Lined with Rich Colored Felt and Fitted with Tool Brackets, Display Stands, Racks, etc., for Goods as Shown in Illustration.

Base No. 104.—This Base Contains Eight 7⅛x12, Two 7⅛x24 and Four 7⅛x36 inch Oak Front Drawers, all 28 inches deep.

Cabinet No. 242.—This Cabinet has Four Swing Panels, arranged with Removable Sample Boards Covered with Rich Colored Felt. Six Adjustable Shelves Back of Each Swing Panel for Goods in Original Packages.

Base No. 112. This Base Contains Sixteen 5¾x24 inch Oak Front Drawers, 28 inches deep, with Partitions.

Cabinet No. 230.—This Cabinet has Four Swing Panels, Arranged with Removable Sample Boards, Covered with Rich Colored Felt. Five Adjustable Shelves Back of Each Swing Panel. When Used in Conjunction with any Base, the Open Space at Bottom Forms a Wrapping Counter.

Base No. 122.—This Base has Four Oak Panelled Swing Doors with One Shelf Back of Each Opening.

Cabinet No. 270.—This Cabinet Contains Sixty-four 5⅝x12 Oak Front Drawers, with Loose Partitions. All Drawers are Interchangeable with each other and from One Cabinet to Another.

Base No. 118. This Base has Four Oak Panelled Sliding Doors with One Shelf Back of Each Opening. Sliding Doors are Fitted with Ball Bearing Sheaves and Slide on an Inlaid Steel Track.

End Panels No. 372
End Panels No. 370 } Two Finished Cabinet End Panels and Two Finished Base End Panels, to Finish Exposed End of this Combination.

Approximate Weight, Packed, 3375 lbs.

This Combination of Units can be Arranged for RIGHT Hand Side of Store or Additional Units Added for Greater Length or Height as desired.

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Quincy, Ill.

Complete Catalogue will be sent on application Describing Fully the Different Units Forming this and Many Other Combinations.

WATERBURY CLOCK CO.'S FINE REGULATORS

OAK, WALNUT AND MAHOGANY CASES. 8-DAY AND 30-DAY TIME.

GUARANTEED ACCURATE TIMEKEEPERS.

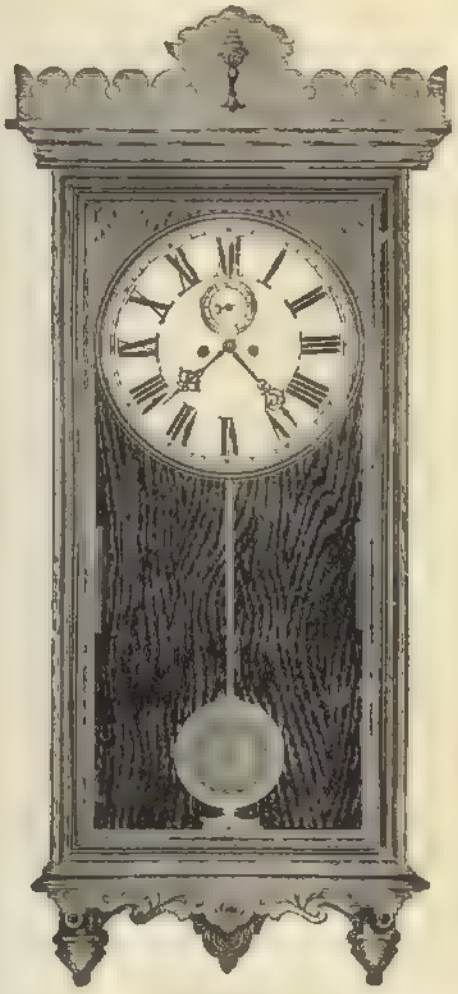
PRICES EACH.

BRETON

Oak or Mahogany. Glass Sides. Height, 44¼ inches. Width, 14⅛ inches. 8 inch Dial.
8 Day Spring Time
No. 5254 Oak, each $20 05
No. 5255 Mahogany, each 21 81
8 Day, Spring Half Hour Strike, Gong
No. 5256 Oak, each $22 40
No. 5257 Mahogany, each 24 25

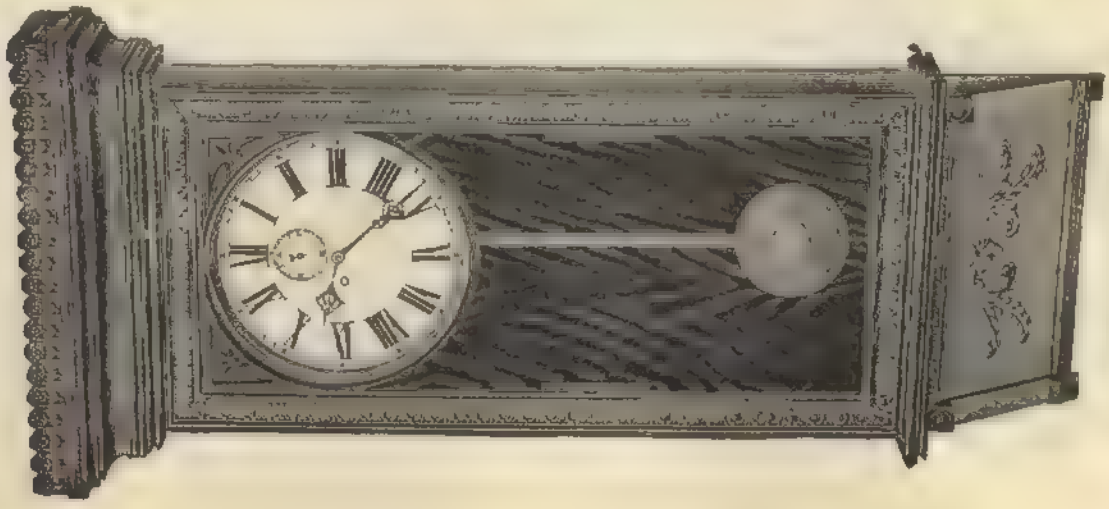
FOSTORIA

Oak, Walnut or Mahogany. Height, 43¼ inches. Width 16¼ inches. 12 inch Dial
8 Day Spring Time
No. 5258 Oak, each $28 60
No. 5259 Walnut, each 28 60
No. 5260 Mahogany, each 33 50
8 Day, Spring Half Hour Strike, Gong
No. 5261 Oak, each $31 50
No. 5262 Walnut, each 31 50
No. 5263 Mahogany, each 36 50
30 Day, Spring Time with Seconds Hand
No. 5264 Oak, each $37 50
No. 5265 Walnut, each 42 50
No. 5266 Mahogany, each 47 35



REGULATOR No. 18

Oak. 8 Day, Weight, Time. Dead Beat Escapement, Retaining power. Solid Movement Frames. 12 inch Dial. Height, 49 inches. Width 20¾ inches
No. 5267 Oak, each $46.70



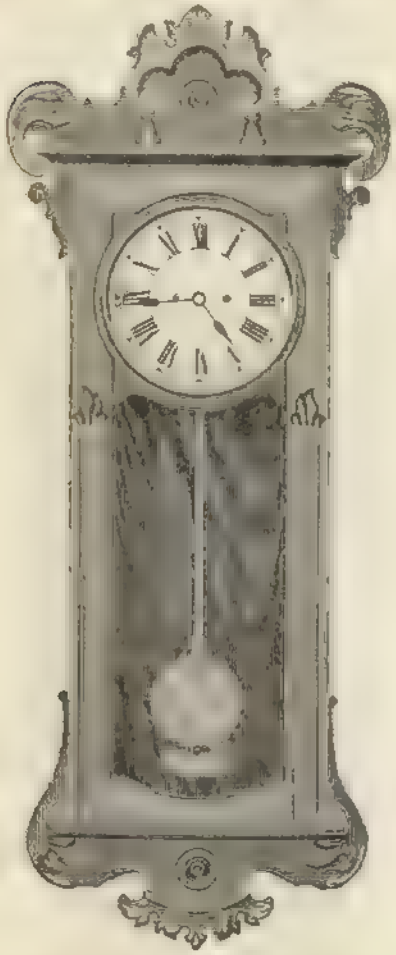
REGULATOR No. 67

Oak, Walnut or Mahogany. Height, 50 inches. Width, 22 inches. 12 inch Dial. Dead Beat Escapement. Retaining Power. Solid Plate Movement Frames. 8 Day Weight Time
No. 5268 Oak, each $50 70
No. 5269 Walnut, each 50 70
No. 5270 Mahogany, each 57 35

NEW HAVEN CLOCK CO.'S FINE REGULATORS

Solid Oak or Mahogany Cases — **8-Day Time, 8-Day Strike and 30-Day Time**

PRICES EACH



GRECIAN

Height, 51 inches. Width, 20 inches. Dial, 10 inches.

Solid Oak

No. [illegible] 8-Day, Spring Time, each $38.70
No. [illegible] 8-Day, Strike, Cathedral Gong, each 41.35
No. 5263 30-Day, Spring Time, each 41.60

Solid Genuine Mahogany

No. 52[illegible] 8-Day, Spring Time, each. $38.70
No. 7275 8-Day Strike, Cathedral Gong, each 41.35
No. 5276 30-Day, Spring Time, each 41.60

SATURN

Height, 34¾ inches. Width, 15¼ inches.

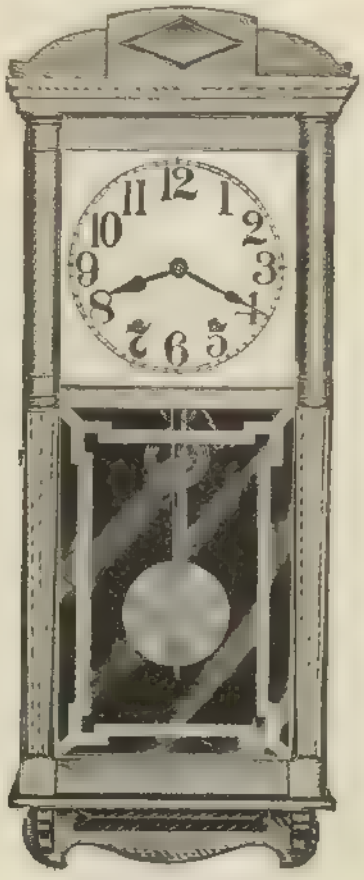
Dial, 12 Inches.

Solid Oak

No. 5277 8-Day Spring Time, each $27.00
No. 5278 8-Day Strike, Cathedral Gong, each 29.70
No. 5279 30-Day, Spring Time, each 29.95

Solid Genuine Mahogany

No. 5280 8-Day Spring Time, each $27.00
No. 7281 8-Day Strike, Cathedral Gong, each 29.70
No. 5282 30-Day, Spring Time, each 29.95



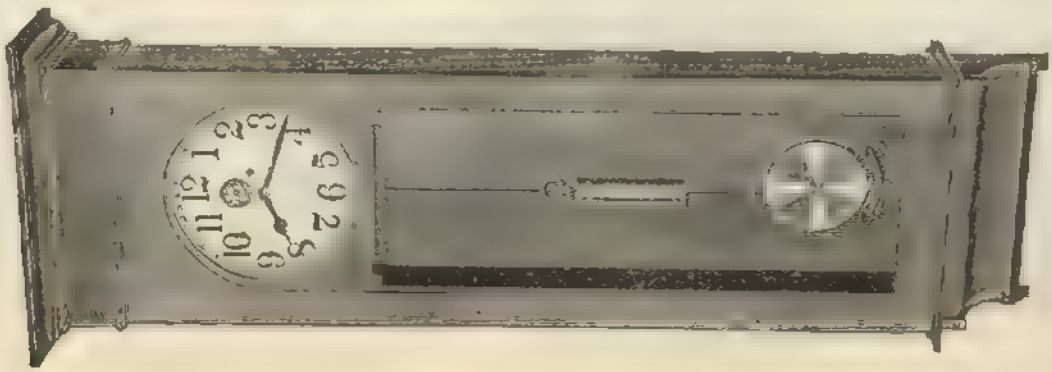
MARNE

Height, 37 inches. Width, 14¾ inches.
Dial, Silver Finish, 10 inches.

Solid Oak (Only)

No. 5283 8-Day, Spring Time, each $31.00
No. 5284 8-Day, Strike, Cathedral Gong, each 33.70
No. 5285 30-Day, Spring Time, each 33.95

These Regulators are MOST ACCURATE Time Keepers. Each clock is carefully inspected and tested before leaving factory, thus insuring perfect running order



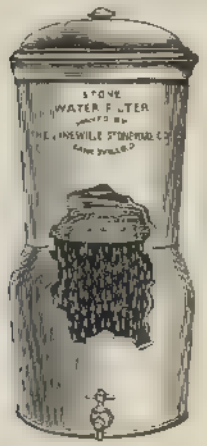
STANTON

Height 61 inches. Width 21 in. Dial, 12 inches. Case Solid Oak or Mahogany. Movement 8 Day Weight Time Piece with Retaining Power.

Solid Oak — No. [illegible] Each $61.70
Mahogany — No. [illegible] Each $61.70

WATER FILTERS AND COOLERS

STONE WATER FILTERS



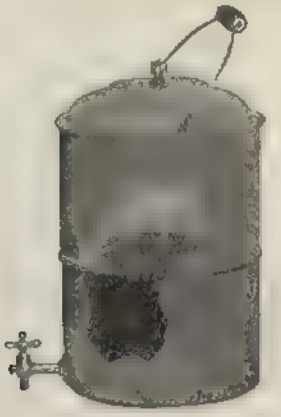
The process of filtering is by percolation through a porous natural stone, from the upper to the lower jar simply by the force of gravity. Can be easily cleaned. White glazed, blue striped

Nos.	1	2	3	4	6
Cap'ty per day gal	3	5	8	10	14
Diam filter'g disc, in.	7	8¼	9	10	11
Upper jar holds, gal.	1¼	2¼	3	4	6
Lower jar holds, gal.	1¾	3	4¼	5¼	7½
Each	$2 80	3 50	4 20	5 20	6 60

One in a Crate

Extra Top Jars, Less covers—

Nos.	1	2	3	4	6
Each	$1 40	1.80	2 10	2 60	3 10



Made from 16 gauge steel, blue enameled finish, seamless nickel plated faucets.

No. 0—Filters 8 gals per day, each vessel 3 gals.....Each, $9 60

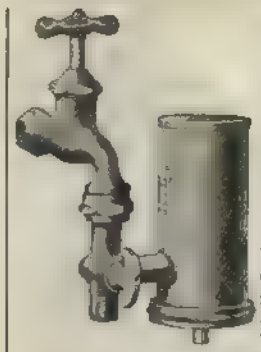
One in a Case

FAUCET FILTERS

Made of brass, heavily nickel plated. Has standard thread that will fit threaded end of ½, ⅝, or ¾ inch threaded faucet. Simple, neat, compact, easily cleaned and very effective.

Champion

No.	Length of Stone, in.	Diam. of Stone, in.	Capacity per hour Gallons	Each
1	2½	2	2	$2.50
1½	4½	2½	4	3.75



FAUCET FILTERS

Made of polished brass, heavily nickel plated. It is attached directly to the mouth of the faucet, and is equipped with a key, which by simply turning, either filtered or unfiltered water can be drawn without removing the filter.

For Threaded Faucet.

Champion

No.	Length of Stone, Inches	Diam. of Stone, Inches	Capacity per hour Gallons	Each
6	4½	2½	4	$6 25
7	6	2½	6	7 50

The metal parts are made of polished brass, heavily nickeled, and all valves and fittings are of the best types The filtering tube can be easily and quickly removed for cleaning by simply removing the clamp. Special cleaning brush is furnished with each filter.

Champion

Nos.	Length of Stone, Inches	Diam. of Stone, Inches	Capacity per hour, Gallons	Each
2	9	2½	8	$15 00
3	12	3½	15	20 00
4	15	3½	20	25 00

EXTRA FILTER TUBES

Nos.	1	1½	2	3
Per dozen	$7.50	10 50	22.50	37.50
Nos.	**4**	**6**	**7**	
Per dozen	$45 00	10 50	18 00	

FAUCET FILTERS

No. 1

No. 3

No. 1—Glass body. Will fit all faucets. Charcoal filter, absolutely germ proof. Recommended by physicians for hospital and home....Per dozen $5 30

Twelfth Dozen in a Box.
Half Dozen in a Carton

No. 3—Made from brass, nickel plated, reversable and self cleaning. Have assorted rubbers to enable customers to fit them to plain faucets. Per dozen $3 30

One Dozen in a Box

FAUCET FILTERS

No. 4

No. 3 in 1

Eureka

No. 4—Prevents splashing and strains water through fine wire gauze. Made of brass, nickel plated. Fits all faucets.....Per dozen $1.50

Three Dozen in a Box.

No. 3 in 1—Fits any faucet. Avoids splashing in the sink, strains the water, prevents dishes from breaking against faucet.....Per dozen $1 60

Packed on Easel Cards (6 on card, 6 loose)
One Dozen to the Box

Eureka—Fits all faucets. A sure trap for bugs, worms, insects and decayed vegetable matter. Nickel plated .....Per dozen $1.00

One Dozen on Easel Card, in a Box

All Rubber—Fits any faucet. Strains the water, stops the splash and prevents dishes from breaking against faucet .....Per dozen $1.80

Packed on Easel Cards (6 on Card 6 loose)
One Dozen to the Box

FILTERING MATERIAL

Consists of bone, charcoal and silex, ¾ pound in a box.

Per dozen $1 60

One Dozen in a Box. With Display Card.

WATER COOLERS

Assorted colors, handsomely decorated, self-closing push button faucets, side handles, galvanized iron reservoir, solid filled walls.

Nos.	02	03	04	06	08	010
Holds, gallons	2	3	4	6	8	10
Each	$4.70	5 20	7.20	8 50	11.00	13 30

One in a Case

Heavy, assorted colors artistic decorations, self-closing push button faucet, side handles, seamless, white enameled reservoir, solid filled walls.

Nos.	33	44	66	88	1010
Holds, gallons	3	4	6	8	10
Each	$10.00	12.00	16.00	20 00	24.00

One in a Case

WATER COOLERS

Galvanized iron reservoir, charcoal filled, nickel plated, self-closing faucet, assorted colors and decorations.

"The Dakota"

Nos.	Capacity Gallons	Extreme Height, Inches	Diameter of Base, Inches	Each
702	2	19¼	10½	$3 00
703	3	21	11	3 75
704	4	23	12½	4 30
706	6	24½	14⅛	5 16
708	8	28½	16⅛	6 25
710	10	31½	16⅜	7 25

One in a Crate

Cast iron porcelain lined reservoir charcoal filled, nickel plated self-closing faucet, assorted colors and decorations

"The Ruby"

Nos	Capacity Gallons	Extreme Height, Inches	Diameter of Base, Inches	Each
403	3	21½	11½	$5 50
404	4	24	13½	7 00
405	5	25½	15	8 50
406	6	26½	15½	9 50
407	7	28	16	10 50
408	8	30½	16⅝	12 50
410	10	32	17½	15 00

One in a Crate

Cast iron reservoir and ice cylinder, porcelain lined, nickel plated self-closing faucet, assorted colors and decorations. Ice and water are kept separate.

Nos.	503	504	505
Holds ice, pounds	6½	8½	10
Holds water, gallons	1½	2	3
Each	$ 8 25	9 75	11 50
Nos.	**507**	**508**	**510**
Holds ice, pounds	15	20	28
Holds water, gallons	4	5	6
Each	$14 00	16 50	20 00

One in a Case

WATER COOLERS

Galvanized iron reservoir, and ice cylinder, nickel plated lever faucet In this cooler the ice and water are kept separate.

Nos.	804	806	808	810
Holds ice, pounds	5	6	8	20
Holds water, gallons	2¼	3¼	5	6
Each	$5 00	6.00	7.50	9 00

One in a Case

Economical of ice, impervious to moisture, and will not warp or swell, cannot rust. Tasteless, odorless and easily cleaned. Equipped with self-closing faucet. Mahogany color.

Indurated Fibre

Nos.	4	5	8	10
Holds, gallons	3	4	6	7
Per dozen	$20.00	22 00	25 00	30 00

One in a Crate

COOLER STANDS AND DRAINERS

Nos. 4 and 5

Nos. 816 and 818

Cast iron top and feet, mahogany grained wood post.

No. 4—Diameter of top inside rim 15 in., height 27 in. ..... Each, $5 25

No. 5—Diameter of top inside rim 18 in., height 27 in. ..... Each, 6.25

Consists of cooler stand, drainer and pail. Painted blue, green or seal brown. Sheet metal top and drip pan.

No. 816—Diameter of top inside rim, 15¾ in., height 30 inch. ..... Each, $4 60

No. 818—Diameter of top inside rim, 18¾ in., height 30 in. ..... Each 5.50

One in a Crate

BOTTLE COOLERS

For 5 or 3 gallon bottle. Ice capacity about 15 lbs. Height (without bottle) 39 in.

No. 1560—White without bottle Each $16 00

No. 560—Mahogany, without bottle. Each $15 00

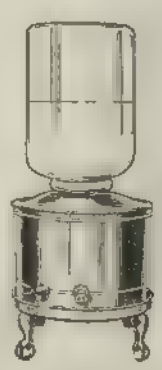
One Cooler and Stand in a Carton

For 2 or 1 gallon bottle. Bottle must be at least 4½ in. diam. Ice capacity about 7 lbs. Height (without bottle) 38 in.

No. 1160—White without bottle Each $13.00

No. 160—Mahogany without bottle Each $12.00

One Cooler and Stand in a Carton



For 5 or 3 gallon bottle. Ice capacity about 15 lbs. Height (without bottle) 16½ in.

No. 1156A—White, without bottle Each $12 50

No. 156A—Mahogany, without bottle. Each $12.00

One in a Carton

For 2 or 1 gallon bottle. Bottle must be at least 1⅞ in. in diameter Ice capacity about 7 lbs. Height (without bottle) 15½ in.

No. 1116A—White, without bottle Each $10.50

No. 116A—Mahogany, without bottle Each $10.00

One in a Carton

EXTRA BOTTLES

Capacity, gallons	1	2	3	5
Each	$0 50	.90	1.10	1.60

One in a Carton

A METER FOR MEASURING GASOLINE

way to the municipal garage. Cities have effected considerable savings by buying gasoline in large quantities to supply municipal motor trucks. But much of this saving may be lost if the supply is not metered. The meter is the bookkeeper of the gasoline tank. It eliminates pilfering for personal uses, and it becomes a valuable factor in figuring the operating cost of municipal motor apparatus, showing the consumption of each truck accurately.

The Niagara meter in the illustration is a product of the Buffalo Meter Company, 2917 Main Street, Buffalo, N. Y. It measures gasoline from systems operated by pumps, gravity, air pressure or hydraulic pressure. The dial is vertical, six inches in diameter, with black figures on white. A large hand indicates pints, quarts and gallons from 0 to 10 gallons. A knurled thumb piece projects thru the dial glass so that the hand may be turned back and automatically stopped at 0. A straight reading register, which cannot be set back, counts the total gallons from 1 to 100,000 and repeats.

The Buffalo Meter Company also makes books for recording meter readings. These may be procured in either loose leaf or bound form, pocket size and larger.

A "Versatile" Tractor

A tractor that is applicable to a wide variety of jobs is the one that should appeal to any municipality desiring to make the most of its motor investments. Such a tractor is that manufactured by the Watson Wagon Company, 30 W. Center Street, Canastota, N. Y. Here it is shown towing a road scraper. Even in this light work it effects a saving over horsepower. But its most effective work is in hauling heavier apparatus, such as dump wagons, trailers, heavy road machinery, etc.

An incident that serves in a way to illustrate the adaptability of this tractor comes from a rural community in the state of Washington. A Watson agent was delivering a new outfit including a bottom dump semi-trailer, and was passing thru a small community when a fire alarm was turned in. The apparatus was very near to the fire department building at the moment, and the quick-witted driver unhooked from his semi trailer and backed the tractor into the fire house, hooked on to the hook and ladder truck, which, like most of the equipment, was of the hand-drawn type, and started off in the direction of the fire ahead of any of the other apparatus. While this, of course, would not be practical in a general way, it was the general utility of the tractor that made possible its use in such an emergency. To the small town which cannot afford an extensive outlay for up-to-date motor apparatus for its different departments, the tractor offers the solution to most of its problems.

WATSON TRACTOR TOWING A ROAD SCRAPER

ELECTRIC MOTORS

Note—When Used on Lighting Current it is Absolutely Necessary to Use a Transformer, in Order to Step Down the Voltage. Any of these can be Used. Be sure that the Current on which you intend to connect to is Alternating, as they cannot be Operated on Direct Current. Transformers are More Satisfactory than Batteries to Operate these Motors, as there is no Wear-out to them and the First Cost is Practically the end of Expense. While Dry Cells Cost Less at First than Transformers they are the Most Expensive and are Drained of Energy in a Very Short Time.

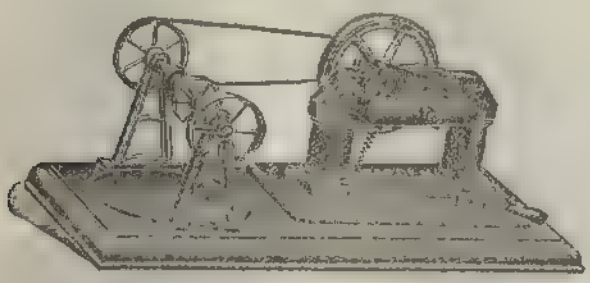
WEEDEN

Balance Wheel 2½ inches in Diameter with Polished Nickel Face, attached to Large Steel Shaft with a Set Screw and Grooved Pulley; All Parts of Motor are made of Special Iron and Brass Heavily Nickel Plated; and are attached to a Nickel Plated Steel Base; Handsomely Striped, Nickel Plated Trimmings, Brass Binding Posts; Switch to operate Motor without disconnecting the Batteries; Operated on Dry Cells or on Alternating Current through a Toy Transformer; Every Motor thoroughly Tested before being Packed; All parts interchangeable; full directions for rrunning and price of Duplicate Parts packed in each box.

Per Dozen

No. 1111—4x6x4½ inches; Weight per Dozen 18 lbs..... **.$30 00**

Twelfth Dozen in a Box



WEEDEN

Balance Wheel 2½ inches in diameter; with Polished Nickel Face, attached to large Steel Shaft with a Set Screw and Grooved Pulley; All Parts of Motor are made of Special Iron and Brass Heavily Nickel Plated; and are attached to a Metal Base, finished in Maroon Enamel; Handsomely Striped; Nickel Plated Trimmings, Brass Binding Posts; Switch to operate Motor without disconnecting the Batteries; Operated on Dry Cells or on Alternating Current through a Toy Transformer, Every Motor thoroughly Tested before being packed; All Parts Interchangeable; Full directions for running and Price of Duplicate Parts packed in each box.

Per Dozen

No. 1112—10¼x5x4¼ inches; Weight per Dozen 19 lbs.....**$34 50**

Twelfth Dozen in a Box

ELECTRIC MOTORS

3¼x3x3½ inches; Cast Iron; Black Enameled and Nickel Plated; Farm Wound Fields; Three Pole Wound Laminated Armatures; Spring Tension, Combination Brushes; Will Run on One Dry Cell.

Per Dozen

No. 1063—Weight per Dozen 16 lbs.....**$18 00**

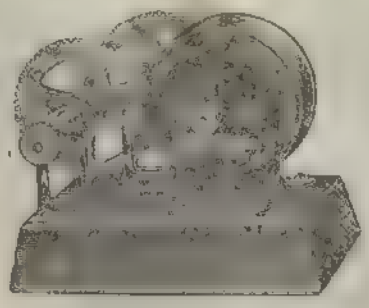
One in a Box

3x3x3½ inches; Same as No. 1063, with Heavy Cast Iron Base and Start, Stop and Reverse Switch.

Per Dozen

No. 1064—Weight per Dozen 18 lbs. ..... **.....$30.00**

One in a Box



Three Speed, Multi-Gear, Power Plants; 5x3½x4 inches; Motor Same as No. 1064, with Steel Multiple Gear Drive and Countershaft; Heavy Iron Base; with Start, Stop and Reverse Switch; Black Enameled and Nickel Plated; will Run on One or Two Dry Cells.

Per Dozen

No. 1065—Weight per Dozen 30 lbs.....**$60.00**

One in a Box

ELECTRIC TOY TRANSFORMERS

FOR ALTERNATING CURRENT

JEFFERSON

Embody all the Latest Improvements in Toy Transformer Construction; Designed to be Connected to the Ordinary House Lighting Circuit for the Purpose of Reducing the Current to Suitable voltage for Operating all Classes of Electrical Toys; such as Electric Engines, Trains, Motors, etc. Made to Operate Toys of Wide Range of Low Voltage by means of a Regulating Switch and Master Connection Post; A Large Celluloid Plate on Top of Transformer shows plainly the various secondary voltages obtainable.

They may also be used for operating Bells, Induction Coils, Buzzers, and many other contrivances.

With Speed Lever giving five various speeds without changing secondary wiring; Black Enameled Steel Case; Complete with Plug and Cord.

Operates Electric Trains Nos. 975-976-977-978

Each

No. 1981—5x4 inches; 3¼ inches High; Reduces 100 to 130 Volts A. C., 60 to 133 cycle to 10 different secondary voltages from 0 to 20 in 2-volt steps; Capacity 50 watts; Weight 6½ lbs..... **$7 00**
One in a Box

With Speed Lever giving various speeds without changing secondary wiring; Black Enameled Steel Case; Complete with Plug and Cord.

Operates Electric Trains Nos. 951-952-957-958-959-960-975-976-977-978

Each

No. 1982—5x4 inches; 3¼ inches High; Reduces 100 to 130 volt A. C., 60 to 130 cycle to 10 different secondard voltages from 0 to 20 in 2-volt steps; Capacity 75 watts; Weight 6¼ lbs..... **$8.00**
One in a Box

With Speed Lever, giving five various speeds without changing Secondary wiring; Mounted between Black Enameled Gray Iron Castings and is equipped with Three secondary Binding Posts, complete with Plug and Cord.

Operates Electric Trains Nos. 975-976-977-978

Each

No. 1980—3½x3¼ inches; 2½ inches High; Reduces 100 to 130 volt A. C., 60 to 130 cycle to 8 different secondary voltages from 3 to 24 in 3-volt steps; Weight 2½ lbs..... **$5.00**
One in a Box

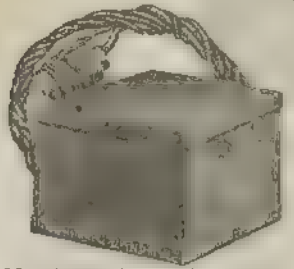
Voltage Changed by Binding Posts

Equipped with Seven Feet of Flexible Cord with Screw Plug for Attaching to Electric Light Socket.

Operates Electric Trains Nos. 957-958-959-960-975-976-977-978

Each

No. 1991—5½x4 inches; 2½ inches High; Reduces 100 to 125 volts to 6, 12 or 18 Volts; Capacity 60 Watts..... **$6 50**
One in a Box; Weight each 5 lbs.



Voltage Changed by Binding Posts, Equipped with Safety Fuse Which Prevents Burning Out Transformer when Current is Short Circuited.

Equipped with Seven Feet of Flexible Cord with Screw Plug for Attaching to Electric Light Socket.

Operates Electric Trains Nos. 951-952-957-958-959-960-975-976-977-978

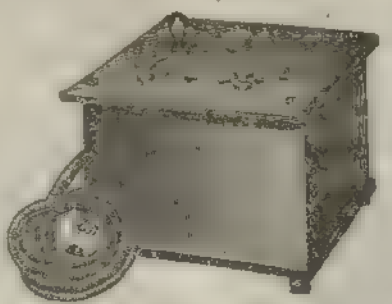
Each

No. 1992—5x5 inches, 3¾ inches High; Reduces 100 to 125 Volts to 8, 11, 14, 17, 20 or 24 Volts; Capacity 120 Watts; Equipped with a Fuse to prevent Burning out Coils by Short Circuit.....**$9.50**
One in a Box; Weight 6½ lbs.

ELECTRIC TOY TRANSFORMERS

FOR ALTERNATING CURRENT

Embody all the Latest Improvements in Toy Transformer Construction; Designed to be Connected to the Ordinary House Lighting Circuit for the Purpose of Reducing the Current to Suitable voltage for Operating all Classes of Electrical Toys; such as Electric Engines, Trains, Motors, etc. Made to Operate Toys of Wide Range of Low voltage by means of a Regulating Switch and Master Connection Post; A Large Celluloid Plate on Top of Transformer shows plainly the various secondary voltages obtainable.



They may also be used for operation Bells, Induction Coils, Buzzers, and many other contrivances.

Voltage changed by binding posts.

Equipped with Seven Feet of Flexible Cord with Screw Plug for Attaching to Electric Light Socket.

Operates Electric Trains Nos. 951-952-957-958-959-960-975-976-977-978.

Each

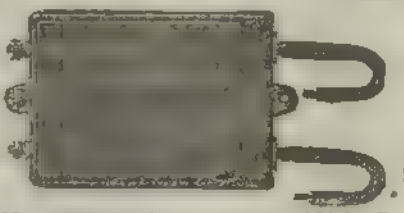
No. 1993—5x5 inches, 3¾ inches High, Reduces 100 to 125 Volts to 8, 11, 14, 17, 20 or 24 Volts; Capacity 120 Watts; Equipped with a Fuse to prevent Burning out Coils by Short Circuit.....**$11 00**
One in a Box; Weight each 6½ lbs.

Voltage Changed by Lever on Top of Transformer For Heavy Duty

Operates Electric Trains Nos. 951-952-957-958-959-960-975-976-977-978.

Each

No. 1994—5x5 inches, 4 inches High, Reduces 100 to 125 Volts to 8, 11, 14, 17, 20 or 24 Volts; Capacity 150 Watts; Equipped with Safety Fuse which prevents Burning out of Transformer when current is short circuited..... **$12 00**
One in a Box; Weight each 7½ lbs.



TOY TRANSFORMER

5x3½ inches; 3¾ inches High, Japanned Iron Closed Case; Two Top Cables through Porcelain Insulators to Light Circuit; Four Bottom Cables through Porcelain Insulators to Supply Current as Needed.

Each

No. 1990—Reduces 100 to 125 Volts Down to 8, 11, 14, 17, 20 or 24 Volts; Capacity 150 Watts; Weight Each 11½ lbs.....**$12 00**
One in a Package

TOY TRANSFORMERS

Junior Bell Ringer and Toy Transformer for 110 Volt, 60 Cycle Current; The Insulated Cables are Attached Direct to the Lighting Circuit just as a Fan Motor or Light Wire; Devices are Connected on the Binding Posts for Reduced Current in the Same Manner as to Dry Batteries.

Each

No. 1975—6½x2¾ inches, 2¼ inches High, Supplies 6 or 12 Volts; Weight Each 2¾ lbs. .**$2 20**
One in a Package

DIRECT CURRENT REDUCERS

For 110 Volts

LIONEL

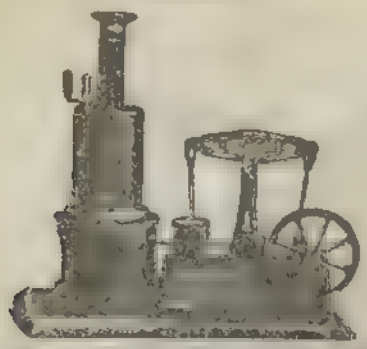
Constructed upon a substantial slate base. The resistance wires are wound around 4 porcelain tubes and these are protected by a perforated Russia iron cover lined with asbestos. The voltage obtained ranges from 0 to 20 with an Ampere Discharge of 5. This apparatus will give a sufficiently wide range of voltages to operate any outfit listed here. The voltage is controlled by a sliding lever. The Reducer can be fixed to wall or table by using the 4 porcelain knobs and screws which are supplied with it.

Per Dozen

No. 966—Size 8x10x3½ inches; Complete with cord and plug . .**$153 60**
One in a Box; Weight 10¾ lbs.

TOY ENGINES

WEEDEN



Polished Blued Steel Boiler, Fire Box and Base are Finished Sheet Steel; Boiler Trimmings are Filler, and Burner; Walking Beam; Uprights and Engine Decks are All Polished Nickel; Balance Wheel has Turned Finished Face and the Shaft Pulley to Which a Belt can be Attached to Run Small Toys; Every Engine is Thoroughly Tested Before Being Packed; All Parts are Interchangeable; Full Directions for Running the Engine will be Found in each Box with the Price Sheet of Duplicate Parts.

Per Dozen

No. 1101—Length 10½ inches; Height 9¾ inches; Weight per Dozen, 60 lbs. **$34.50**

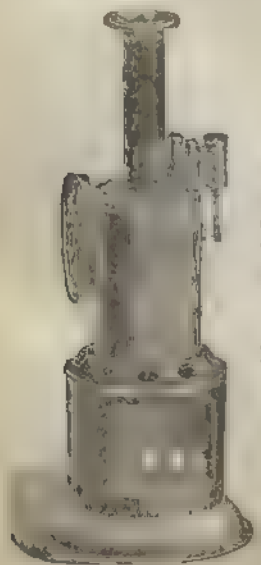
Twelfth Dozen in a Carton

Horizontal; Polished Boiler; Blued Steel Fire Box and Stack; Enameled Steel Base; Safety Valve Locked on Top of Boiler and Made Steam Tight by Small Rubber Washers; Gold Bronzed Whistle with Wooden Lever Handle; 2-inch Nickel Plated Balance Wheel; Thoroughly Tested; All Parts Interchangeable; Full Directions for Operation, and Price List of Duplicate Parts Packed with Each Engine.

Per Dozen

No. 1103—Boiler 3¾ x 1¾ inches; Height 8¾ inches; Weight per Dozen, 75 lbs. **$26.40**

One in a Package



Polished Steel Boiler; Bright Enameled Steel Fire Box and Base; Removable Blued Stack; 2¾-inch Nickel Plated Turned Balance Wheel; Gold Bronzed Whistle with Wood Handle; Thoroughly Tested; All Parts Interchangeable; Full Directions for Operation and Price List of Duplicate Parts packed with Each Engine.

Per Dozen

No. 1102—Diameter Base 4¾ inches; Height 10½ inches; Weight per Dozen, 120 lbs. **$18.00**

One in a Package

TOY ENGINES

WEEDEN

Polished Steel Boiler; Bright Enameled Steel Fire Box and Base; Enameled Stack; 2-inch Nickel Plated Balance Wheel; Thoroughly Tested; All Parts Interchangeable; Full Directions for Operation, and Price List of Duplicate Parts Packed with Each Engine.

Per Dozen

No. 1101—Diameter Base 4 inches; Height [illegible] inches; Weight per Dozen, 8 lbs. **$10.50**

One in a Package

STEAMBOATS

Torpedo Type, with Ram; Deck, All Steel Hull Frame and Bulkheads, 5½ inch Polished Steel Boiler, Firmly Secured to the Thwarts; Steam Chest Mounted on Inclined Frame, to which Cylinder is Adjusted; Balance Wheel Connected to the Cylinder and Propellor Shaft, with Three-Blade Propellor and Adjustable Rudder; Decorated in Bright Red and Gold Bronze; Thoroughly Tested; All Parts Interchangeable; Full Directions for Operation, and Price List of Duplicate Parts Packed with Each Boat.

Per Dozen

No. 1113—Length 15½ inches; Height 5 inches; Weight per Dozen, 15 lbs. **$27.00**

One in a Package

CHRISTMAS TREE CANDLES

Cable Style; Best Grade; Made of Hard Paraffine; absolutely Odorless; Put Up in Handsome Lithographed Labeled Boxes.

Per Box

No. 30—Assorted Colors; Packed 36 to a Carton, Weight per Dozen Boxes, 6 lbs. **$0.24**

CHRISTMAS TREE CANDLE HOLDERS

Made of Heavy Tin Spring Clasp with Steel Wire Coil Spring to attach to Christmas Tree. Assorted in Brilliant Colors.

Per Gross

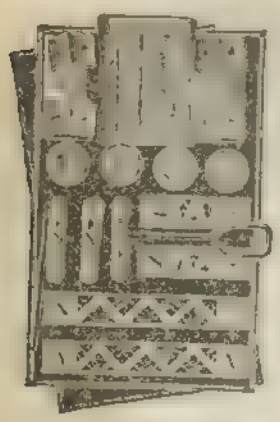
No. 55—One Dozen on a Card, One Gross in a Box, Weight per Gross 24 lbs. **$2.70**

CONSTRUCTION TOYS

ERECTOR

All Parts made of Bright Stamped Steel, Complete with Bolts, Nuts, etc. A Complete Manual of Instructions showing different Designs with each Set.

This is the only Structural Steel Builder having Girders faithfully imitating those used in Structural Steel Building. These Toys are very Popular and Instructive. Parents as well as their Boys will receive many Valuable Lessons in the Laws of Mechanics while building the different Models with which the various Sets are capable. Educational, Instructive, Amusing



Without Motor

Contains Ninety-eight (98) Parts and Makes 60 Models; Among these Models are Railroad Signals, Horizontal Bars, Flat Trucks, Flying Dutchmen, Wagons, etc.

Each

No. 1900—Size of Box 10⅜x6⅜x⅞ inches; Weight Wrapped for Parcel Post, 2 lbs.; Weight Unwrapped 1 lb..... **$0 68** 0.50

One Set Complete in a Box

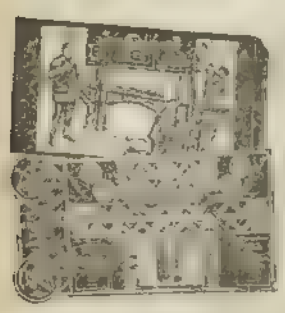
Without Motor

Contains One Hundred Forty (140) Parts and Makes 88 Models; Among these Models are Windmills, Coat Hangers, Derricks, Semaphores, Grindstones, Teeter Totters, etc.

Each

No. 1901—Size of Box 12¼x9½x1 inches; Weight Wrapped for Parcel Post, 3 lbs.; Weight, Unwrapped, 2½ lbs. **$1.34** 1.00

One Set Complete in a Box



Without Motor

Contains Two Hundred Five (205) Parts and Makes 120 Models; Among these Models are Bicycles, Hand Cars, Endless Rope Railways, Cannons, Derricks, Semaphores, etc.

Each

No. 1902 Size of Box, 17½x9½x1 inches; Weight Wrapped for Parcel Post, 5 lbs., Weight, Unwrapped, 3¼ lbs. **$2 68** 2.00

One Set Complete in Box

Without Motor

Contains Three Hundred Forty-five (345) Parts and Makes 176 Models; Among these Models are Steam Shovels, Hoisting Engines, Conveyors, Cranes, Dump Wagons, Bridges, etc.

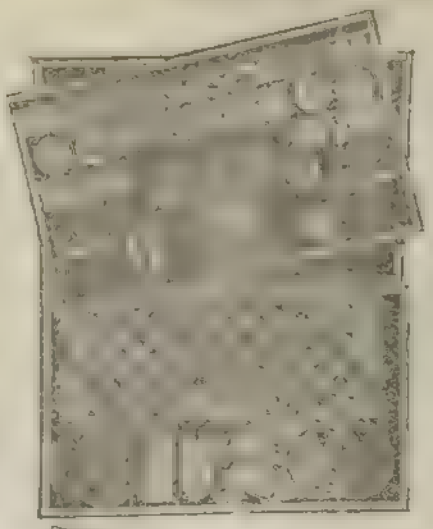
Each

No. 1903 Size of Box 18x8¾x2¼ inches; Weight Wrapped for Parcel Post, 7 lbs.; Weight, Unwrapped, 6 lbs. **$4 00** 3.00

One Set Complete in a Box

CONSTRUCTION TOYS

ERECTOR



With Motor No. 1942

Contains Five Hundred Seventy-one (571) Parts and Makes 207 Models; Among these Models are Torpedo Boats, Revolving Draw Bridges, Four Arm Semaphores, Police Patrols, Drill Presses and Gear Boxes.

Each

No. 1904 Size of Box 21½x13x3 inches; Weight, Wrapped for Parcel Post, 10 lbs. Weight, Unwrapped, 9 lbs..... **$6 68** 5.00

For Description of Motor See No. 1942 on Page 2636

One Set Complete in Box

With Motor No. 1942

Contains Six Hundred Seventy-nine (679) Parts and Makes 229 Models (See Manual of Instructions Complete with Each Set).

Each

No. 1905 Size of Box 15x9x3 inches; Weight, Wrapped for Parcel Post, 14 lbs.; Weight, Unwrapped, 12 lbs. **$10.00** 7.50

For Description of Motor, See No. 1942 on Page 2636

One Set Complete in Box

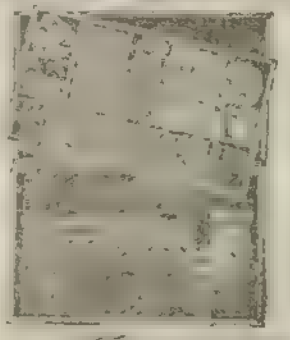
With Motor No. 1942

Each

No. 1906—Contains 1000 Parts and Makes 264 Models; Size of Box 16x11x4 inches; Weight, Wrapped for Parcel Post 16 lbs. Weight, Unwrapped, 16 lbs **$13 34** 10 00

For Description of Motor, See No. 1942 on Page 2636

One Set Complete in Box



With Motor No. 1942

Each

No. 1907—Contains 1291 Parts; Makes 278 Models; Size of Box 21x13x4 inches, Weight 17 lbs. **$20 00**

For Description of Motor, See No. 1942 on Page 2636

One Set Complete in Box

With Motor No. 1942

Each

No. 1908—Contains 1850 Parts; Makes 304 Models; Size Box 21x13x5 inches; Wt. 36 lbs. **$33 34** 25 00

For Description of Motor See No. 1942 on Page 2636

One Set Complete in Box

The "Wells Light"

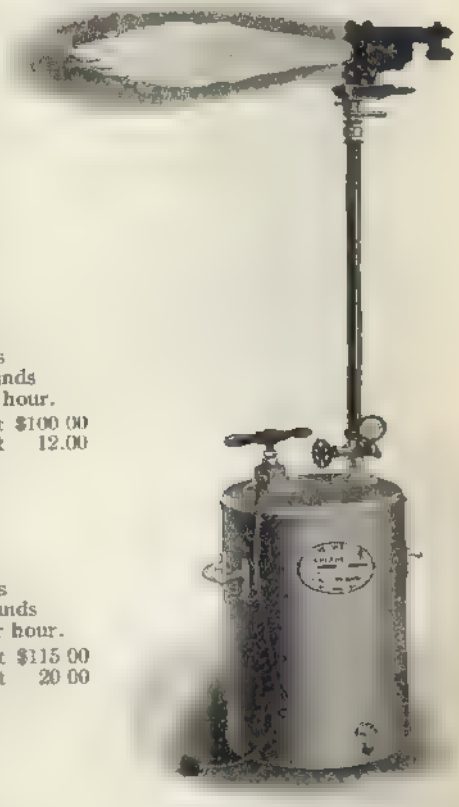


Fig. 318

No. 3

2000 Candle power
Flame, 30 inches long.
Tank 18 x 24 inches
Weight, when full, 245 pounds
Weight, when empty, 110 pounds
Oil consumed, one gallon per hour.

Price. . . . . net $100 00
Extra burner. . . . . net 12.00

No. 5

4000 Candle power
Flame, 36 inches long
Tank, 18 x 24 inches
Weight, when full, 245 pounds
Weight, when empty, 110 pounds
Oil consumed, 1½ gallons per hour.

Price. . . . . net $115 00
Extra burner. . . . . net 20 00

Absolutely Free from Danger

Giving a clear white light, without smoke or spray; is not dazzling, and does not throw intense shadows like the electric light

The "Sergeant" Type

For general all around satisfactory [illegible] no drill [illegible] compare with the "Sergeant." It is rugged and durable in design and construction.

The valve motion, which is a combination of the independent air thrown valve with the tappet valve action, has [illegible] the attainment of the enviable records of efficiency and economy of operation for which this drill is noted.

Its design has been coupled with materials and workmanship of the very highest order

For either tripod, bar or column work, it may be depended upon to give results that will satisfy the most exacting demands

Fig. 319

Descriptive Table of "Sergeant" Rock Drill

Description	A-86	B-24	C-24	D-34	D-44	E-34
Diameters as						
Diameter of cylinders, inches	2¾	2½	2¾	3	3	3¼
Length of stroke, inches	5	5	6	6½	6½	6½
Length of drill from end of [illegible] to end of piston, inches	7	4	48	48½	48½	49
Depth of hole drilled without change of bit, inches	-	20	24	24	24	24
Diameter of supply pipe (standard pipe), inch	¾	¾	1	1	1	1
Approximate strokes per minute with 75 pounds pressure at drill	500	500	375	350	350	350
Depth of vertical hole each machine will drill easily, feet	8 to 8	8 to 8	12 to 16	14	14	16
Diameter of holes drilled as desired, inches	⅞ to 1	1 to 1¼, 1⅛ to 1⅜	1 to 1¼, 1⅛ to 1⅜	1 to 1¼, 1⅛ to 1⅜	1 to 2¼	1¾ to 2¼
Diameter of octagon steel used, inches	⅞ or 1	1 and 1⅛	1⅛ and 1⅜	1⅛ and 1⅜	1⅛ and 1⅜	1¼ and 1⅜
Size of shanks (diameter and length), inches	⅞ x 5	⅞ x 5	1 x 5½	1⅛ x 6	1¼ x 6	1¼ x 6
Number of pieces in set of steels to drill holes to depths, as stated	5	5	5	7	7	8
Best size of boiler to give plenty of steam at high pressure, horse power	6	6	6	8	8	10
Best size of supply pipe to carry steam 100 to 200 feet, inches	¾	1	1	1	1	1

Western Chief Drill No. 12

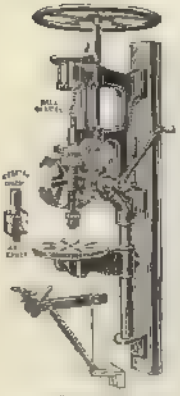


Fig 1478

Cut gears only used in this drill

Automatic self feed; fast and slow speed, instant change; drills to center of 16-inch circle; bores 0 to 1½ inches; up and down run of spindle, 4 inches, up and down run of table, 5½ inches, greatest distance from table to spindle, 18½ inches, size of pulleys for power, 10½ x 2½ inches; should run 175 to 180 revolutions per minute; spindle bored for ½ or ¼-inch shank bits—always state size when ordering; weight, hand power, 215 pounds; weight, pulley power, 235 pounds

The shaft on this drill when ordered hand power) is left extended to receive pulleys any time thereafter

Wheel runs can be furnished by removing table and using forked support as a wheel holder. A special wheel-holder attachment, as illustrated, is furnished, when ordered, for $2 00 extra

Always shipped without pulleys, unless ordered

Wheel-holder attachment, $2 00 extra

List price, without pulleys, hand power only ..... each $27 50
List price, with hand and pulley power attachments (as illustrated) ..... each 31 50

Western Chief Drill No. 14

Strong straight and bevel gears; rapid fast and slow speed instant change. Horizontal, rear driven, positive, self feed, changeable instantly to fast, slow or medium, as desired. Raise and lower device to table.

Has automatic quick return, allowing rapid withdrawal of the bit at will, without stopping or reversing machine. Or, it can be set to drill any depth desired and automatically stop, whether running by power or hand, reverse, feed, withdraw the bit and start drilling again and again indefinitely, all without stopping the rotation of the machine, or turning it backward. This feature is independent of drill and need not be used unless desired.

Drills to center of 21-inch circle, bores 0 to 1½ inches; up and down run of spindle, 4 inches; up and down run of table, 14 inches; greatest distance from table to spindle, 18 inches; size of pulleys, 12½ x 2½ inches; should run 175 to 180 revolutions per minute; spindle bored for ½ or ¾ inch shank bits—always state size when ordering; weight, hand power, 295 pounds; weight, hand and power, 315 pounds.

Wheel runs can be readily removing table and using the forked support as a wheel holder. A special wheel holder attachment, as illustrated, is furnished, when ordered, for $2 00 extra.

The shaft on this drill when ordered hand power is left extended to receive pulleys at any time thereafter.

Always shipped without pulleys, unless ordered.

Wheel-holder attachment, $2 00 extra

List price, hand power only ..... each $38 50
List price, both hand power and pulley power (as illustrated) ..... each 42 50

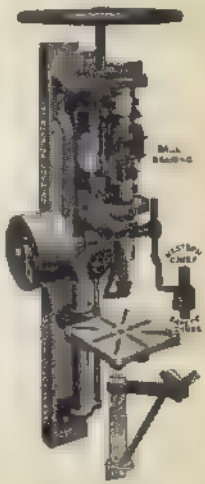


Fig 1479

Western Chief Drill No. 16

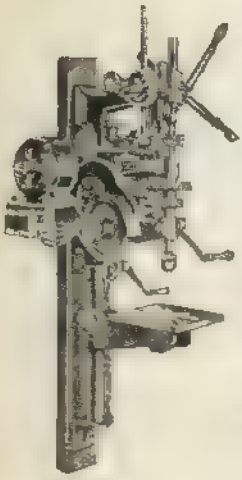


Fig. 1480

Post drill with the fine features of a machine shop floor drill, equipped with a high-grade, powerful motor of the best make, costing less than 25 cents a day to operate. There are no belts the motor being directly connected with spur gear drive, accurately cut

Fast and slow speed, instant change

Has lever feed also horizontal gear-driven positive self feed, changed to fast, slow or medium speed instantly. These feeds work independently of each other, and bit is lifted quickly

Raise and lower device to table, drills to center of 24-inch circle bores 0 to 11½ inches up and down run of spindle 6½ inches, up and down run of table 15 inches, greatest distance from table to spindle 18½ inches spindle bored for 1 and ½ inch shank bits- always state size when ordering; weight, 400 pounds

Wheel runs can be drilled by removing table and using the forked upport as a wheel holder

Special wheel-holder attachment, $2 00 extra.

List price (as illustrated) . . . . . each $150 00

No. 17 Electric- Same as No. 16 Electric but with stand and base Height of machine, 71 inches floor space 15 x 26 inches When specially ordered we will bore spindle to receive No. 3 Morse taper Weight 590 pounds

List price . . . . . each $175 00

No. 36 Power Drill

New and Improved 20-Inch Type Model

Has back gear, power feed and automatic stop.

A very valuable machine for all around work All parts are solid, simple and compact. The best of material and workmanship used throughout

All machines are tested before leaving the factory, and guaranteed in every respect

Height of drills, 72 inches; greatest distance between base and spindle, 37 inches, greatest distance between table and spindle, 25 inches, travel of spindle, 9 inches, diameter of spindle in sleeve, 1⅝ inches; spindle socket, No. 3 Morse drills to center of 24-inch circle; diameter of table, 16 inches diameter of column, 5¼ inches, travel of table on column, 17 inches; size of cone pulleys, 8⅞, 7 ⅛, 5¾, 4 x 2½-inch face, diameter of tight and loose pulleys, 8 x 2½ inch face, speed of countershaft, about 380 R P M net weight, 740 pounds, No. 36; net weight, 660 pounds, No. 35

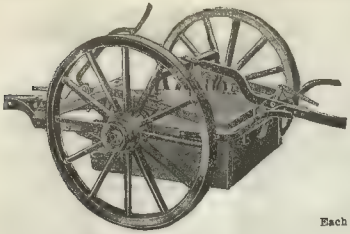
List price each $150 00

No. 35. Wheel and lever feed only

List price each $115 00

Fig. 1481

STANDARD WESTERN.



Wheels—Made of selected stock. **Axles**—High arched; provided with combined spindle sleeve and sand collar. **Bail**—High arched, bent around on a line with the top edge of pan and supported by the lever, which is arched, giving abundant clearance for dirt in filling and dumping. **Draft Hooks**—Automatic; prevent the scraper from dumping while being filled and regulate the cut to even depth.

Each

No. SW2½—Capacity 14 cubic feet; with draft rod; 42-inch wheels, 3x3/4 inch tires; 1¾-inch axles; bowl, 3 ft 2 ins wide, 3 ft 5 ins. long and 13½ ins. deep; weight, 700 lbs.. $64.75

No. SW1—Capacity, 9 cubic feet, 38-inch wheels, 2½x7/8 inch tires; 1½-inch axles; bowl, 3 ft. wide, 3 feet long and 12 ins. deep; weight each, 500 lbs..... $54.00

No. SW2—Capacity, 12 cubic feet; 40-inch wheels, 3x⅞ inch tires; 1⅝-inch axles; bowl, 3 ft. 2 ins. wide, 3 ft. 1 in. long and 13½ ins. deep; weight each, 650 pounds. 61.50

No. SW3—Capacity, 16 cubic feet; with draft rod; 46 inch wheels, 3x⅞ in. tires; 1⅝ in. axles; bowl, 3 ft. 8 ins. wide, 3 ft 5 ins. long and 16 ins. deep; weight, 800 pounds..... 72.25

NOTE—We can furnish extra draft rods, automatic end gates, whiffletrees and neck yokes on above at market prices.

FRESNO OR BUCK SCRAPERS.

WESTERN.

HEAVY CALIFORNIA PATTERN.

Useful in constructing ditches and invaluable for leveling land for irrigating purposes. Made in heavy California pattern, which has an angle along the upper edge to stiffen it. The backs of these scrapers are protected by plates or runners of steel, 3x¼ inch, the No. W1 having four runners, No. W2 three and the No. W3 two runners. Heavy steel in the backs and ends; heavy angles and shoes; blade, 13x7/8 inches.

Each

No. W1—5-foot cut; weight, 340 lbs... ..... $30 25
No. W2—4-foot cut; weight, 310 lbs..... 29 75
No. W3—3-foot 6-inch cut; weight, 270 lbs..... 29.00

PLOWS.

WESTERN RAILROAD OR TOWNSHIP.

No 3

Beams—Made of hickory, strongly strapped with iron, which extends from the clevis back and down to the standard, with steel-faced shoe. **Handles**—made of second-growth white oak; hand holds are made of round iron and curved, both strapped with iron on outside, which runs full length of handles. **Share and mouldboards**—Made of best plow steel, both double shinned. **Coulter**—Reversible coulter, so when one end is worn out the other can be put to use. **Clevises**—Made of steel, hand made, and furnished with two wrought iron rings.

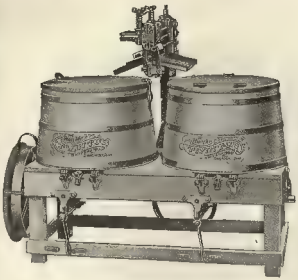
Each

No. 7—Two-horse; 11 inch cut; especially adapted for public roads, strong and substantially built, without extra share; weight each, 100 lbs $19.30
No. 6—Two-horse; 11-inch cut; especially adapted for railroad and township use; a strong two-horse plow, on which three horses are frequently used, with extra share; weight each, 160 lbs..... 27.90
No. 5—Four-horse; 11-inch cut; especially adapted for medium railroad work; the strongest plow of its size ever manufactured; a favorite with contractors; with extra share; weight, each, 175 lbs..... 33.80

Each

No. 1—Six-horse; 12-inch cut; with extra share; weight each, 230 lbs..... $42 65
No. 2—Eight-horse; 12-inch cut; with extra share; weight each, 260 lbs 47 20
No. 3—Ten-horse; 10-inch cut; with extra share; weight each, 350 lbs..... 50.50
No. 4—Twelve-horse; 10-inch cut; with extra share; weight each, 450 lbs..... 63.15

NOTE—We can furnish extra shares for any of the above at market price.



WHITE'S TWIN TUB WASHER

Gasoline or Electric Power

REAL MONEY MAKERS FOR YOU

Here is the most highly developed double Tub Washer on the market. It combines many exclusive features and makes an instant appeal to all who see it. A demonstration means a sale in most every case.

BUILT UNUSUALLY STRONG
WORKING PARTS ALL UNDER TUBS
METAL STAND FOR RINSE AND BLUE TUBS
FAMOUS SWINGING REVERSIBLE WRINGER
METAL PARTS INSIDE TUBS ARE ALUMINUM

WE HELP YOU GET THE BUSINESS

WRITE TODAY

WHITE LILY MF'G. CO.

Davenport, Iowa

THE FAMOUS WHITE CROSS ELECTRIC (DRY CELL) VIBRATORS

PRICES EACH

White Cross Electric Vibrator No. 1

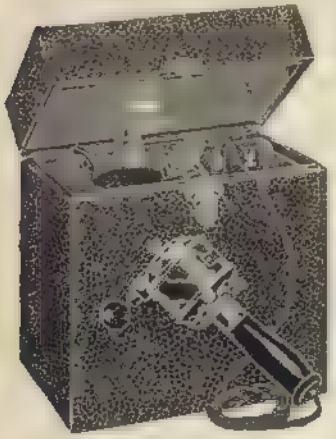
MODEL C

Portable Dry Cell Machine, Giving Mechanical Vibration Only

This outfit is designed to be used by parties not having the electric current in the house or by those that want to take treatment when traveling. It is so simple that a child can operate it.

The Mechanical Vibration is produced by a high grade motor inclosed in a highly polished case. It will give the percussion stroke and rubbing motion.

All the applicators we make can be used with this outfit.



PATENTED

The frequency of the vibration in this machine is found most suitable for all purposes from scalp and light body massage.

It is operated on eight dry cells of regular size. When the cells are exhausted they can be replaced by anyone in a few minutes. Any regular size dry cell of high amperage can be used.

Put up in good Leatherette Case 11¼x6x10¾ inches.

We furnish with this outfit one H soft rubber cup, one D soft rubber scalp, one C ball and one B button applicator, also one oil can.

We also furnish charts and directions for taking treatment.

No. 1C Complete, ready for use $45 40

White Cross Electric Vibrator No. 2

MODEL C

Portable Dry Cell Machine Giving Very Strong Mechanical Vibration

PATENTED

This vibrator is operated on ten dry cells of regular size. When the cells are exhausted they can be replaced by anyone in a few minutes. Any dry cell of regular size and high amperage can be used.

This machine is provided with a better and stronger motor than Vibrator No. 1. It will give the long or percussion stroke and short or rubbing motion.

It gives vibration strong enough for making a vibrating chair.

Put up in a good leatherette case 11½x9¼x11¾ inches.

We furnish with this outfit, one B button applicator, one C ball applicator, one D soft rubber scalp applicator, one H soft rubber cup applicator, one J large hard disc applicator and one K soft rubber ball applicator, and one oil can.

Full directions and charts written by an expert, accompany each outfit.

No. 2C Complete, ready for use $47.50

White Cross Electric Vibrator No. 8B

Combination Portable Dry Cell Machine. Giving Heavy Mechanical Vibration Very Strong Faradic Electric Current and a Mild Galvanic Current

A Combined Mechanical Vibrator and Electro Medical Battery, with a Good Faradic Coil, Plates for Electric Bath, Electric Hair Brush for Scalp Massage, Electric Lamp for Examinations, and a Full Set of Electrodes and Applicators.

PATENTED

This is a combined Mechanical Vibrator and Electric Medical Battery designed for Professional and Home use, where the operator wants both the mechanical vibration and electricity. With this outfit every portion can be applied and taken alone, or at the same time the electricity is applied. It gives the Faradic Electricity strong enough for several persons at the same time, but it can be regulated so as to be mild enough for the most delicate applications. It gives Primary, Secondary and the combined Primary and Secondary currents. It also gives Galvanic Current for medical purposes. This outfit can also be used for operating the electric needle in removing Facial Blemishes, Superfluous Hair, Warts, Moles, etc.

The Vibrating Chair can be operated with this outfit with the aid of Clamp No. 14 and Attachment R. All the applicators and the electrodes we furnish can also be used with this outfit.

The Electric Light can be used for examining the mouth, throat and other portions of the body.

Electric Baths can be taken in any ordinary bath tub with the aid of the plates we furnish, and if wanted, vibration can be taken at the same time.

The electricity can also be taken at the same time the patient is seated in the vibrating chair. All kinds of Body and Face Massage can be taken with this Vibrator, **with or without the Electric Treatment.**

This is a very complete outfit for all purposes, giving **very strong mechanical vibration** and both the Faradic and Galvanic electricity.

With This Instrument You Can Take

Body Massage, Facial Massage, Scalp Massage, Ear Massage, Eye Massage, Swedish Movement, Vibrating Chair Treatment, Electric Body Treatment, combined Vibratory and Electric Treatments, light Galvanic Electric Treatment, Electric Baths in your own tub, Electric Scalp Treatments, Electric Facial Treatments, Operating Electric Needle for removing moles, warts, superfluous hairs and other facial blemishes, Electric Light Examinations.

Remember—You can take facial and scalp massage treatments every day yourself, the body with either vibration or electricity. You can have the electric bath in your own bath tub, the electric lamp for examinations, the electric lamp for your own rocker or any chair a vibrating chair with this outfit. It is so simple in operation that a child cannot do themselves any harm with it and you have command of the **best known relieving agents at your disposal. Vibration, Galvanic and Faradic Electricity.**

Full Directions and Charts for operating and taking treatment, written by an expert, accompany each outfit.

We furnish with this outfit Applicators A, B, C, D, H and K, also two sponge electrodes with handles, one sponge with head band, two large plates, two metal handles, two conducting cords, one electric hair brush, one Electric Lamp with Tongue Depressor and one oil can.

No. 8B Complete, ready for use. $82 70

THE FAMOUS WHITE CROSS ELECTRIC VIBRATORS

FULLY GUARANTEED PRICES EACH

PATENTED Fully Guaranteed

White Cross Electric Vibrator No. 26C

Operates on the Electric Light Current
Operates on 100 to 220 Volt Direct and Alternating Current

This machine is designed for home use, and the construction is so simple that anyone can operate it.

It gives very heavy vibration, suitable for all kinds of body massage and can be regulated so as to be mild enough for delicate treatments of the scalp, face, eye and ear. It gives the percussion stroke, rubbing and angular stroke, as well as the popular lateral or side stroke so beneficial to the face and scalp.

It is provided with a starting switch and speed regulator, which is located conveniently near the handle.

The Vibrator is provided with a high grade, universal, removable motor.

It can be operated on both direct and alternating current, which is a great advantage for those who live in rented houses, in case they should move into a district in which a different current is used.

Speed of Vibrator can be as well regulated on the direct current as on the alternating current.

There is practically no vibration in the handle and it is almost noiseless. The Vibrating Chair can be operated with the aid of the famous Lindstrom Patented Vibrating Chair Converter No. 9 and attachment "R."

The motor of the Vibrator is strongly built and is well insulated. The armature and fields are stamped out of Norwegian iron, and are wound with the best double insulated, silk-covered wire. The commutator has cut segments which are insulated with mica. The bearings are made of phosphor bronze and the shaft is made of tool steel. It is provided with self-oiling oil cups and reinforced cord.

Put up in a leatherette silk-lined case, size 11¾x8¼x4½

Full directions and charts written by an expert accompany each machine, also a copy of "Vibratory Technique," by Dr. Benjamin Brown.

One H facial, one D scalp, one B button, one C ball, one J large hard disc, one S sponge, one O spinal, one P throat, and oil can with each outfit.

No. 26C Complete, ready for use..... $48.70

PATENTED Fully Guaranteed

White Cross Electric Vibrator No. 27C

Operates on the Electric Light Current
Operates on 100 to 220 Volt Direct and Alternating Current

It gives the rotary and percussion stroke, also the lateral and rubbing motion.

The Vibrator is provided with a starting switch and speed regulator, which is located conveniently near the handle.

It is operated by a high grade, universal, air cooled, removable motor. It is noiseless in operation, except for the slight hum of the motor. It is equipped with all the latest improvements.

It is constructed for more various uses than the smaller outfits, and more applicators are furnished.

The No. 27 Vibrator gives stronger vibration than the No. 26 as it has more windings on armature. The Vibrator is finished in black enamel and gold plate, making it very attractive, besides very durable. The armature and field are especially carefully made of Norwegian iron and are wound with the highest grade, double insulated, silk-covered wire. The bearings are made of phosphor bronze and the shaft is made of tool steel. It is provided with self oiling oil cups. The cord is carefully made and reinforced.

This outfit is furnished with a very handsome leatherette case with silk lining. Size of case, 13¾x10¼x4½ inches. There is also a strong lock on the case.

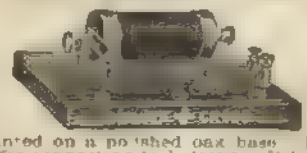
One H facial, one D scalp, one B button, one C ball, one J large hard disc, one S sponge rubber sponge, one K soft rubber ball, one A hard rubber [illegible], one O spinal, and one P curved applicator, one T brush applicator [illegible] and one jar Vibrator Massage Cream, are furnished with each outfit.

Full directions and charts written by an expert, also a copy of "Vibratory Technique" by Dr. Benj. Houston Brown, accompany each machine.

No. 27C Complete, ready for use..... $59.50

WHITE CROSS ELECTRIC SPECIALTIES

White Cross Medical Base No. 15



This coil is mounted on a polished oak base. It is equipped with binding posts for connecting to battery. It is also equipped with off and on switch. Gives primary, secondary and combination primary and secondary current. All the currents can be regulated in graduations from very mild to strong enough for several people at one time. Suitable for electric baths, [illegible] body treatment, etc. One or two ordinary dry cells can be used.

[illegible] connecting cords. [illegible] outfit. Battery is not [illegible]

$8.90

White Cross Medical Battery No. 16

A Complete Double Cell Medical Apparatus

This is a high grade Faradic Battery operated by two Dry Cells. It gives Primary, Secondary and the combined Primary and Secondary currents. All the currents can be regulated in graduations from very mild to strong enough for several persons at the same time. It is also suitable and strong enough for electric baths.

The Secondary is wound with very fine wire which affords the highest degree of [illegible] Primary and Secondary currents are the best for muscular development and therapeutic effects.

It is put up in a highly polished oak case, with nickel trimmings. All metal parts are highly polished and nickel plated.

The cells when exhausted can be easily replaced by any one in a few minutes. Two regular size dry cells are used.

Size of case is 8x6x7½ inches. It has a compartment on one side of the switchboards which is covered with plush for the electrodes.

Complete with one pair conducting cords, one pair metal handles, one pair wooden handles, one pair sponges and one foot plate.

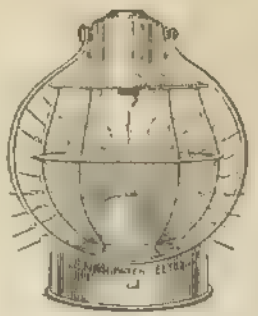
All electrodes listed can be used with this outfit.

Weight 8 lbs., shipping weight 9 lbs.

No. 16 Each $18.20

Jenks' Electric Lantern No. 286

Pullman Conductor's Design



The 20th century wonder in [illegible] lamp construction is the Jenks [illegible] lantern. It lights and stays lit in [illegible] of weather conditions, light any time and any place. No dirt, no grease, no soot. The most useful electric invention of the age is the Jenks Electric Lantern. Considering the fact that about 97 fatalities out of every hundred have a lantern in their [illegible] and the unsatisfactory service de[illegible] to say nothing of the breakage of globes and the delay of cleaning and filling the oil lantern is too [illegible] further comment. Jenks Electric [illegible] tern does away with all this. It has been put to a thorough test and does all we claim for it, and in a short time will be in daily use in thousands of homes and places where a perfect lantern is desired.

The Pullman Conductor oil lanterns are used by thousands of [illegible] The Jenks Electric [illegible] all hea[illegible] Hi[illegible] railroad [illegible] using [illegible] the Conductor's outfit is not complete without a Jenks Lantern. The Jenks Lantern [illegible] designed [illegible] of solid brass, fully nickel plated [illegible] cannot rust or wear out. [illegible] are no switch buttons, levers or complicated electric works. It operates entirely by ball, weighs only 2¼ lbs. Lift the lantern by bail the light is on; drop bail on one side the light is off; drop on [illegible] side, light is on. It is [illegible] with the strongest bat[illegible] Will give 14 hours [illegible] of continuous use or 28 hours intermittent service. Estimated to supply light five minutes a day for about six months. The most economical light in the world. An ideal lantern for the home requires no attention. Can be used with absolute safety in hundreds of places where an oil lantern would cause an explosion.

No. 286 Complete with battery and bulbs. Each, $8.90

No. 10 Extra batteries. Each ..... .90

No. 11 Extra bulbs. Each .40

Breezer Electric Fan No. 60

8-Inch Universal Non-Oscillating Desk Bracket Fan

Fully guaranteed

Weight 6 lbs.

Voltage—Can be furnished in voltages from 8 to 220, any cycles.

Finish—Nickel, highly polished.

Size—12½ inches high, 9½ inches wide, over all. (When used on wall it extends out 9 inches.)

Adjustments—Large wing nut allows fan to be adjusted up or down.

Speeds—Three speeds.

Motor—The motor is especially adapted for fan use. The armature is perfectly balanced which insures smooth operation. Extra large and high-grade graphite brushes insure long life. The bearings are made from phosphor bronze.

Oiling—Large inverted oil cups, which will supply ample lubrication.

Blades—Each blade is weighted and accurately balanced to warrant quiet and perfect operation.

Guard—The guard is extra heavy, and is braced to the motor with three metal braces.

Base—The base is highly finished in nickel, and has holes for attaching fan to wall. It is also equipped with rubber feet to prevent marring.

Cord and Plug—Cord and plug are furnished free.

Additional Information—We recommend the Breezer Electric Fan for family and office use, by the bedside, staterooms, boats, limousines, etc., also as a practical desk and wall fan. Where quiet operation is essential, the Breezer fills a long-felt want.

The Breezer is attractive in appearance, needs very little attention, and is economical to operate.

The entire fan is substantially constructed and is practically noiseless, with no vibration.

When ordering state voltage and cycles.

No. 60 Each..... $22 70

Fans wound for 220 volts or over, extra list..... $2 15

Chicago Electric Fan

Model 64

Fully guaranteed.

This Electric Fan is regulation 8-inch size and has strong universal motor.

Blades and guard are nickel-plated and highly polished. The base and motor are finished in black, making it very attractive.

Gives strong breeze, as powerful as any 8-inch fan made. Rubber feet so as not to mar furniture. Furnished for any voltage from 12 up to 220 volts direct or alternate current. Specify voltage when ordering.

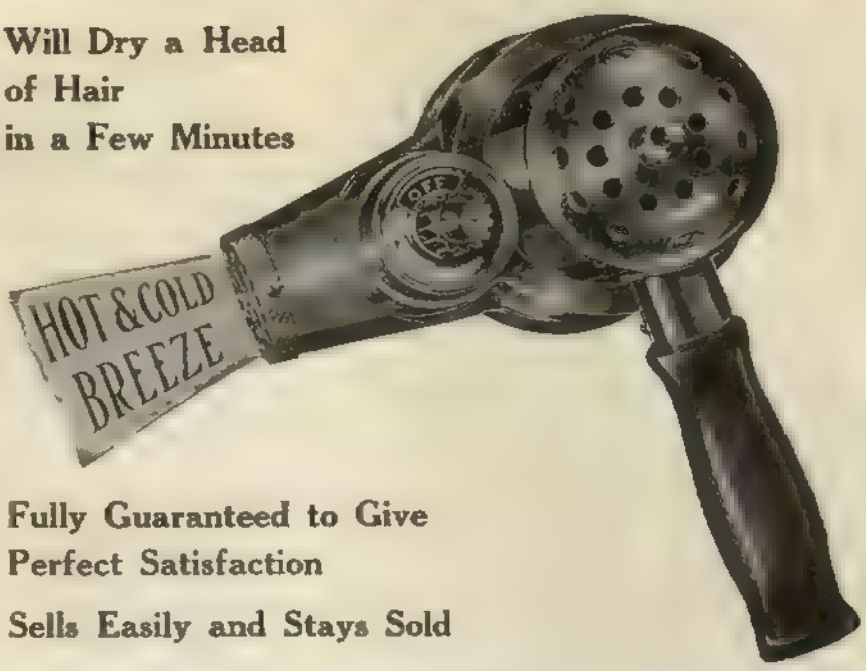
Do not confuse this fan with other fans on the market at the same price, as this is a strong, durable fan that will give continued service.

Furnished with cord and plug. One speed equipped with on and off switch. Fully guaranteed.

No. 64 Each..... $10 35

White Cross Electric Hair Dryer No. 41

Will Dry a Head of Hair in a Few Minutes



Fully Guaranteed to Give Perfect Satisfaction

Sells Easily and Stays Sold

Operated on 100-220 volt direct and alternating current, any cycle.

Gives Hot and Cold Breeze.

This Hair Dryer is designed for practical work. It is finely finished in black and bright nickel. The breeze can be changed instantly from hot to cold by simply turning a switch on the side. The current can also be turned on and off by this switch so that it is not necessary to turn it on or off at the socket.

This machine is most suitable for barbers, as it can be used equally well for taking out as in the office.

There is nothing better on the market for home use as it is so simple that anyone who has the electricity in the house can use it.

Everything is made of the best material and highest class workmanship in our own factory. Everything is fully guaranteed.

The electric motor in this Dryer is made by us and is of the highest grade.

The armature is made of laminated Norway iron discs thoroughly treated with insulating material and assembled under very heavy pressure. They are then ground by a special machine until perfectly true.

The Armature Coils are wound by a special machine with the best silk covered magnet wire. This insures uniform resistance of each coil. The coils are so arranged on the armature, that they are perfectly balanced.

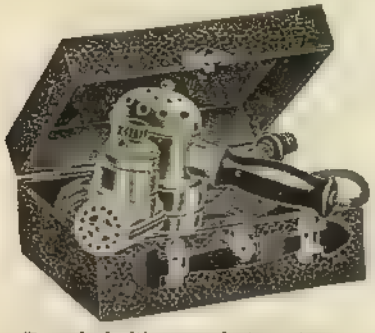
The Fields are made of thin discs stamped out of Norway iron. They are treated with an insulating compound and assembled under very heavy pressure.

The Field Coils are form wound, with silk insulated magnet wire, which insures perfect uniformity in resistance. Each Coil is insulated by being wound with linen tape.

The Commutator is built up with the greatest care, of pure copper bars and insulated with best quality mica. They are securely put together under heavy pressure, immersed in insulating varnish and baked.

It is provided with reinforced cords of the very best grade.

The bearings are made of Phosphor Bronze perfectly ground and polished so that there is no friction even when the motor is new. Bearings are equipped with felt oil wicks and springs, thus making motor self-oiling. The shaft is made of Tool Steel which prevents wearing and keeps armature true.



Furnished either in a leatherette carrying case, or pasteboard box.

In ordering state voltage and cycles it is to be operated on.

No. 41 110 White Cross Electric Hair Dryer, 110 Volts. Each	$37 85
No. 41 220 White Cross Electric Hair Dryer, 220 Volts. Each	42 85

White Cross Electric Comb, Curler and Waver Sets

No. 1129 Complete Set.

They are finely made of nickeled brass, highest grade. Handles of the appliances are of special vulcanized rubber, affording perfect insulation against heat and electricity.

They will not rust, tarnish, or corrode, and are clean and hygienic.

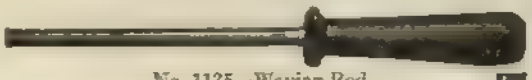
An even temperature is always maintained without danger of over-heating and burning or sticking to the hair. No electricity ever comes in contact with the user. They will not injure the hair in any manner.

They can be used on either direct or alternating current.

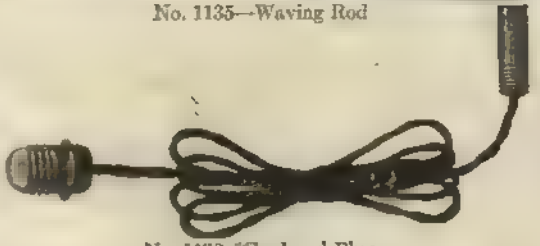
Complete sets are furnished with six feet silk insulated cord.

No. 1133 Comb Hair Dryer

No. 1134—Curling Iron



No. 1135—Waving Rod

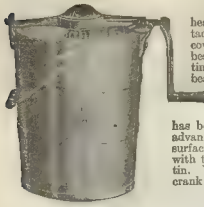


No. 1136—Cord and Plug.

Fully Guaranteed

No. 1129 Complete set with cord and plugs, in plush lined case	$28 00
No. 1130 Complete set with cord and plugs, in soft leather plush lined traveling roll	28 00
No. 1131 Complete set with cord and plugs, in pasteboard box	21 70
No. 1133 Comb Hair Dryer only	$7 35
No. 1134 Curling Iron only	7 35
No. 1135 Waving Rod only	7 35
No. 1136 Cord and Plug only, necessary for use with any of the above appliances	2 70

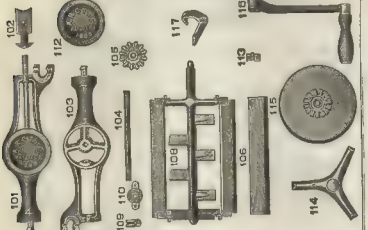
IMPROVED ARCTIC.



Strong waterproof tub, heavy galvanized hoops, detachable hinge top frame, covered gearing, can made of best charcoal tin plate with tinned cast iron cover, tinned beater with self adjusting wood scraping bar; the can may be revolved after beater has been removed which is an advantage in freezing fruit. All surfaces that come in contact with the cream are coated with tin. Wire bail with wood grip; crank with wood handle.

Quarts	2	3	4
Weight each, lbs	10	12	13
Each	$4.60	5.55	6.30
Quarts	6	8	10
Weight each, lbs	18	21	23
Each	$8.60	11.00	14.80

ARCTIC FREEZER PARTS.



F. O. B. Nashua.

No. Quarts	1	2	3	4	6	8	10	12	15	20
101–Gear frame, with gears	$ 64	.90	1 00	1.10	1.40	1 60	1.70	3 40	4 00	5.00
102–Ear	.16	.20	20	.20	.28	28	.28	48	.60	.60
103–Gear frame, without gears	.40	.56	.64	76	1.00	1 10	1.20	2 20	2 40	3.20
104–Shaft	.16	.28	.28	28	.44	.44	.44	.72	.72	.88
105–Screw gear	.16	.20	20	.20	.28	28	.28	.72	.72	80
106–Wood scraper	.12	.16	.16	16	.16	.16	.16	.28	28	.28
108–Beater complete with Woods	.20	.30	.40	50	.60	.70	.80	1 50	1.60	2.00
109–Wood scraper holder	.12	.16	16	.16	.16	.16	.16	.20	.20	.20
110–Center	.12	.16	.16	.16	.16	.16	.16	.28	28	.28
112 Gear cap	.16	.28	.28	.28	.32	.32	.32	.56	.56	56
113–Can stop	.12	.14	.14	.14	.14	14	.14	16	.16	.16
114–Can socket	.12	.16	.20	.24	.28	28	32	.40	.40	
115–Can cover	.40	.52	60	.72	.80	1 00	1 20	1 44	1.76	2 00
116–Crank	.28	44	.44	56	.56	.56	.56	1 44	1 44	1 44
117–Frame latch	.16	.24	.24	.24	.24	.24	.24	.32	.32	.32
Tubs	1.04	1.60	1 90	2 .42	2 50	3 .12	4 .40	4 80	5 .77	7 .20
Cans, without covers	.60	1.00	1 12	1 36	1 92	2 40	3 .08	3 96	4 .88	6 .60

The minimum charge on any invoice for repairs will be 10 cents. Order by registered number of repair and state capacity of freezer for which part is wanted.

For shipment from factory only.

SAMSON, POWER.

The "Samson" is the best power machine made. The platform and stand are of cast iron. The gear frame extends across the top of the tub, and is fastened by a latch bolt and thumb screw. When the frame is released it can be raised to an upright position, and is then firmly held. The can and tub may be removed and replaced at pleasure while the frame is in this position.

The beaters are malleable iron, tinned and fitted with double self-adjusting wood scraping bars. The tubs are exceedingly heavy and durable, and the cans are of the heaviest tin plate that can be purchased.

The pulleys on the 25 quart are 11½x4½ inches, and on the 40 quart, 15x5½ inches; and the freezers should be operated at a speed of about 75 revolutions per minute. If desired, a large fly wheel weighing 150 pounds may be substituted in place of the pulleys and the freezer may be operated by hand power.

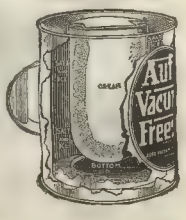
Each

*No. 25SP—Capacity, 25 quarts; weight, 325 pounds; complete with tight and loose pulleys $86.00

*No. 40SP—Capacity, 40 quarts; weight, 485 pounds; complete with tight and loose pulleys 115.00

***For shipment from factory only.**

AUTO VACUUM.



A freezer that requires no turning or shaking to freeze the cream. Air space construction acts as a vacuum, ice spends its full force against the cream chamber as the cold cannot pass through the air wall. It is strictly sanitary, simple in construction having only three parts and will freeze cream in less than half an hour. Cream will remain hard eight hours without refilling ice chamber.

Made of heavy metal throughout, white enamel finish with blue and gold lettering.

Each

No. 2—Auto Vacuum Freezer; capacity, 2 quarts (12 dishes); height, 11 inches; diameter, 9 inches; weight each packed, 6½ lbs $5.00

One in a carton.

ICE CREAM FREEZERS.

IMPROVED WHITE MOUNTAIN TRIPLE MOTION.

Strong water-proof tub, bound with heavy galvanized hoops; the gearing completely covered so that nothing can get between the cogs; can full size and made of the very best quality of tin plate, beaters of iron, dasher and tinned; all castings attached to the tub nicely galvanized to prevent rusting. This is the only freezer in the market having the celebrated duplex dasher, with self-adjusting wood scraper bar.

WITH CRANK.

With crank and wire bail with wood grip.

The cut shows the construction and position of the mechanism of the White Mountain freezer. The can moves from right to left, the outside beater moves from left to right, scrapes with its wooden bars the frozen cream from the can and throws it toward the center where it is met by the floats of the inside beater moving in an opposite direction and returned to the inside surface of the can to be re-frozen. The triple motion thus induced, keeps the cream constantly moving and ensures every particle being smoothly and evenly frozen.

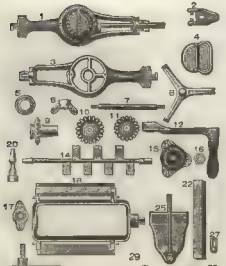
Quarts.....	1	2	3	4	6	8	10	12
Wt. each, lbs.	9	11	14	17	24	27	30	34
Each.....	$4.85	5.65	6.75	8.25	10.45	13.50	18.00	21.55

WITH FLY WHEEL.

Suitable for hotels, cafes and ice cream parlors. Has fly wheel and side drop handles; should be operated by hand only.

Quarts	15	20	25
Weight each, pounds.....	80	100	126
Each.....	$31.60	40.60	51.55

WHITE MOUNTAIN FREEZER PARTS.

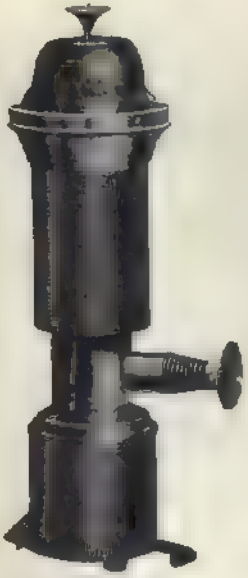


No. Quarts.....	1	2	3	4	6	8	10	12	15	20	25
1–Gear frame, with gears.....	$1.00	1.70	1.80	1.90	3 20	3 40	3 50	8.40	8 85	9 30	12.00
2–Small ear.....	.20	.32	.32	.32	.40	.40	.40				
3–Gear frame without gears.....	.40	.70	.80	.90	1 50	1.70	1.80	4.05	4.35	4.05	5.70
4–Tub handle.....							.44	.56	.56	.56	.56
5–Ring for cover of can.....	.12	.16	.16	.16	.16	.16	.16	.28	.28	.28	.40
6–Thumb nut.....								.20	.20	.20	.20
7–Shaft.....	.16	.20	.20	.28	.44	.44	.44	.72	.72	.88	1.28
8–Can socket.....	.16	.20	.28	.28	.28	.44	.44	.56	.56	.56	1.00
9–Shank gear.....	.16	.44	.44	.44	.88	.88	.88	1 44	1 44	1 44	1 88
10–Top gear.....	.16	.28	.28	.28	.56	.56	.56	1 00	1 00	1 00	1.60
11–Screw gear.....	.16	.28	.28	.28	.44	.44	.44	.72	.72	.72	.88
12–Crank.....	.28	.44	.44	.56	.56	.56	.56	1.44	1.44	1 44	1 60
13–Caten.....	.06	.08	.08	.08	.08	.08	.08				
14–Inside beater.....	.30	.36	.45	.54	.66	.84	1 05	1.65	1.80	2.10	3.00
15–Large center.....								.28	.28	.28	.28
16–Shaft nut.....								.16	.16	.16	.16
17–Small center.....	.12	.16	.16	.16	.16	.16	.16				
18–Outside beater.....	.42	.60	.75	.90	1 20	1.50	1.80	2 25	2.40	3.15	3.90
20–Spindle.....	.12	.16	.16	.16	.44	.44	.44	.56	.56	.56	.88
21–Small latch.....	.06	.08	.08	.08	.08	.08	.08				
22–Wood scraper.....	.12	.16	.16	.16	.16	.16	.16	.28	.28	.28	.44
24–Large ear.....								1 44	1.44	1.44	1 44
25–Large latch.....								.88	.88	.88	.88
26–Gear cap.....	.12	.28	.28	.28	.56	.56	.56	.88	.88	.88	1.00
27–Wood scraper holder.....	.12	.16	.16	.16	.16	.16	.16	.20	.20	.20	.20
29–Frame latch.....	.16	.24	.24	.24	.24	.24	.24				
Cans complete with cover.....	1.00	1.52	1.72	2 08	3 72	3.40	4 28	5.40	6 60	8 00	10.72
Covers only.....	.40	.52	.60	.72	.80	1 00	1.20	1 44	1 70	2 00	2.76
Tubs.....	1 04	1.60	1 96	2 32	2.52	3 12	4 40	4.96	5 76	7.20	9 00

The minimum charge on any invoice for repairs will be 10 cents.

Improved Burners for Locomotive Oil Headlights

Williams



No. 5 Williams

No. 5. 10 inches long. Takes No. 94 chimney

No. 23. 9 inches long. Takes No. 94 chimney

No. 24. 9 inches long. Takes No. 90 chimney

No. 8. 8 inches long. Takes No. 90 chimney

Use circular felt wick, $1\frac{1}{16}$ x $4\frac{1}{2}$ inches long

The Williams Burner is universally used and is so well known as to require little comment.

For repair parts, see page 238.

Improved Burners for Locomotive Oil Headlights

No. 5 D Wilder Detachable Pinion Self Feed

No. 5D Wilder

Takes Nos. 93 or 94 chimney. Circular felt wick, 1¼ x 4½ inches.

For repair parts, see page 238

No. 5B Williams Self-Feed

Takes Nos 93 or 94 chimney. Circular felt wick, 1¼ x 4½ inches

For repair parts, see page 238

No. 5-B Williams Self-Feed

CASTING MINNOWS

WILSON

Catches Fish when Live Bait Fails; Has Exact Motion of Minnows Tail (caused by the peculiar Fluting on the Bait) and Leaves Wake Which is Identical.

At Average Speed of Reeling the Bait Travels about 3 feet Under Water, Sinks Lower as Line is Reeled in Faster, Rises as Line is Reeled in Slower and Floats when not in Motion.

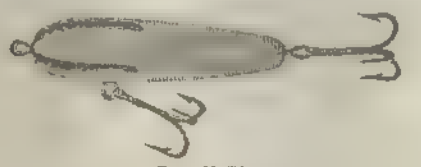
FLUTED WOBBLER

Per Dozen

No. FW—Wood Body; Length 4¼ inches; Assorted Colors, Red with Red Flutings and White Body with Red Flutes; Three Bronzed Spear Point Limerick Treble Hooks No. 1/0; Weight each 1 oz. **$13.00**

Always Specify Color Wanted when Ordering.

One in a Box; One Dozen in a Display Case



Small Size

Per Dozen

No. 1FS—Wood Body; Length 3½ inches; White Body with Red Flutings; Two Bright Steel Spear Point Treble Hooks No. 1/0; Wt. each ¾ oz. **$12 00**

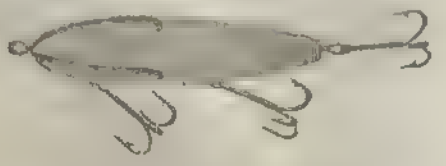
One in a Box; One Dozen in a Display Case

WEEDLESS FLUTED WOBBLER

Per Dozen

No. 1FW—Wood Body; Length 4¼ inches; White Body with Red Flutings; Two Bright Steel Spear Point Treble Hooks, No. 1/0; Bright Steel Piano Wire Guards; Weight each 1¼ ozs. **$16.00**

One in a Box; One Dozen in a Display Case



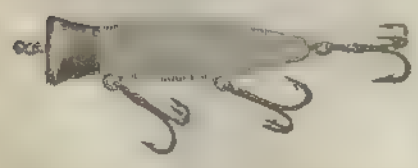
LUMINOUS FLUTED WOBBLER

For Night Fishing; Surface Bait; Stays Entirely on Top of the Water and Shows up in Good Shape and leaves an Alluring Wake

Per Dozen

No. 2F Wood Body, Length 4 inches, Fluted Body and [illegible], Three Bright Steel Spear Point Treble Hooks No. 1/0, Weight each 1 oz. **$12.00**

One in a Box; One Dozen in a Display Case



CUPPED SURFACE WOBBLER

Travels on the Surface of the Water with a Wobbling Motion.

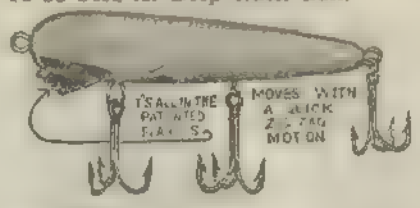
Per Dozen

No. 1C—Wood Body; Length 4¼ inches; White Body, Red Head; Three Bright Steel Spear Point Treble Hooks No. 1/0; Wt. each 1 oz. **$12.00**

One in a Box, One Dozen in a Display Case

WINGED WOBBLER

The Patented Wings on this Bait give it a quick Zig-Zag Motion through the Water and also makes the Bait Weedless to a Certain Extent. To be Used for Deep Water Bait.



Deep Water Bait.

Wood Body; Length 4¼ inches; Assorted Colors, Red Body with Red Wings and White Body with Red Wings; Three Bronzed Spear Point Limerick Treble Hooks No. 1/0; Weight each 1 oz.

Per Dozen

No. WFW. **$12 00**

Always Specify Color Wanted.

One in a Box, One Dozen in a Display Case

NEMO MUSKELLUNGE

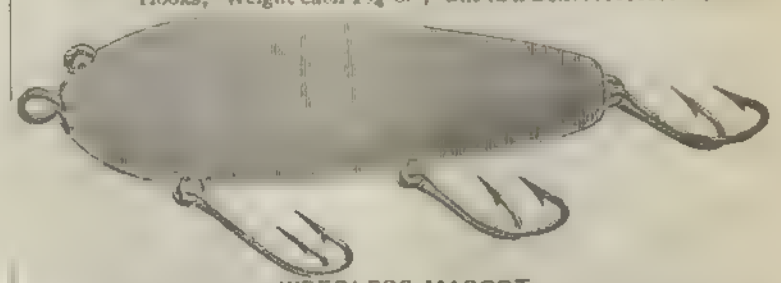
For Muskellunge, Pickerel and Large Bass

Made of Spanish Cedar, and is Painted with a Special Preparation of Pure Celluloid, Colored with Fast Colors and then Finished with a Heavy Coat of Clear Celluloid, Making a Finish that Positively will not Crack, Peel or Chip off.

May be Used Either as a **Surface** or **Under Water** Bait, as Desired, by Simply Shifting the Little Ball from One End to the Other; When used as an Under Water Bait it will Rise to the Surface if it is Stopped for any Reason, thus Preventing Fouling in the Weeds.

Per Dozen

No. NC—Length of Body 4 inches; Bright Red Spinner Head; Three Blue Steel Extra Heavy Spear Point Double Hooks; Weight each 1¼ oz., One in a Box. **$18.00**



WEEDLESS MASCOT

The only Weedless Wobbler on the market; It Wobbles, Wriggles, Swims, Dives, Runs on the Surface or Under the Water at Three Different Depths and Floats at all times when at Rest; It changes its Action, Changes its Weight and is Reversible; Either End can be Used as Front End, getting Different Results; Simply Unscrew the Front or Rear Screw Eye and Remove the Weight that is Inside; Complete Directions for using with each Bait

Made of Fine Grade Cedar, Enameled with a Special Celluloid Enamel which does not Crack, Chip or Peel and is Absolutely Waterproof.

Per Dozen

No. MW—Length of Body 3¼ inches; Bright Red Head; Three Bright Steel Spear Point Double Hooks; Weight each 1 oz.; One in a Box. **$13.50**

SIX IN-ONE

Made with an Adjustable Diving Guide which May Be Set at Any One of Six Different Positions. One Position Will Cause the Bait to Skim on the Surface of the Water; the Other Positions Will Cause the Bait to Travel in the Water at Various Depths, Ranging to a Maximum of Six Feet. Each Different Change in the Position of the Diving Guide Not Only Causes the Bait to Travel at a Different Depth, but with a Different Wobbling Movement.

Made of Selected Red Cedar, Beautifully Finished with the Most Durable Enamel Obtainable; All Metal Parts are of Brass, Nickel Plated.

Per Dozen

No. 61W—Length of Body, 4¾ inches; Bright Red Head; Two Bright Steel Spear Point Treble Hooks; Weight Each 1⅛ ozs. . **$12 00**

One in a Box

CASTING MINNOWS

CHIPPEWA

A Light and Durable Casting Bait designed to Supply a Demand for a Floating Bait of Small Size that does not Twist or Tangle itself when using; Made of Tin and Covered with a Waterproof Enamel that Cannot be Worn off; The Patented Propellor on this Bait Gives it a Quick Motion through the Water and Has the Exact Motion of a Minnows' Tail; Hook Sockets Always hold the Hooks Outwardly so that the Points are always Presented to Fish. Correctly Weighted so that it will always Float in an Upright Position.

Per Dozen

No. CB—Fancy Sienna Yellow Body; Size of Body 3x1¼ in.; One Bright Steel Spear Point Treble Hook at End; Feathered with White and Green Feather; One Bright Steel Spear Point Double Hook on Bottom; One Side of Propellor Nickel Plated; the other Side Enameled in Red, Large Glass Eyes, Weight each 1 oz. $14.40

Twelfth Dozen in a Box

LUMINOUS COAXER—WEEDLESS

The only Weedless Moonlight Bait on the Market. No Danger of Getting Snagged in the Thickest Weeds. Even on the Darkest Nights.

Body made of **Selected Cedar and Coated with a Special Preparation which Absorbs either Daylight or Artificial Light, Radiating Same when Exposed at Night; Floats when not in Motion.**

Designed Especially for Catching Black Bass and other Game Fish which are Night Feeders.

Per Dozen

No. 1L—Wood Body; Length 1¾ inches; Equipped with Two Large Spear Point Hooks at Tail; Two Red Color Cloth Wings and Genuine Buck Tail Hair, Red Hair Color Tail; Weight each 1 oz. $13.50

Twelfth Dozen in a Box

CONVERTIBLE COAXER

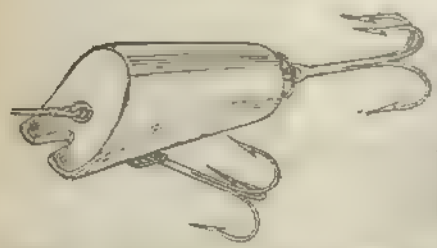
This Bait can be Used as a Strictly Weedless Bait When Desired, by Simply Removing the Double Hook from Bottom of Bait; The Double Hook Should be Used Only in Open Water out of the Weeds; An Excellent Bait for Bass Fishing.

Made of Selected Cedar and Enameled with a Special Celluloid Enamel which will not Crack or Peel Off.

Per Dozen

No. 2C—Wood Body; Length 1¾ inches; Equipped with two Large Spear Point Hooks at Tail; One Spear Point Double Hook on Body; Two Red Hair Color Wings, and Finest Quality Red Hair Feathers at Tail; Weight each 1 oz. $13 50

Twelfth Dozen in a Box.



JIM DANDY

So Shaped that in Going Through the Water it Looks Like Something in Distress and Fish Immediately Attack It; Can Be Used for Trolling or Casting.

Wood Body; Size of Body, Length 2¼ inches; Width at Wide End, 1¼ inches.

Per Dozen

No. JD1—White Body	**$13 50**
No. JD3—White with Red Head	**13 50**
No. JD3—Frog Color	**13 50**
No. JD6—Yellow with Red Head	**13 50**
No. JD7—White with Red and Green Spots	**13.50**

Weight per Dozen 12 ozs.
Twelfth Dozen in a Box

CASTING MINNOWS

GETSEM WEEDLESS

Can be Thrown in among the Weeds and Lily Pads—the Home of the Bass and Pickerel. Rides in the Water Semi-Submerged. The Fish Strike it on the Rise.

The Body of the Bait is made of Selected Cedar, Attractively Finished with the most Durable Enamel Obtainable. The Hook Construction is Very Solidly made All Metal Parts Nickel Plated except Hooks.

and not likely to be Broken or Disarranged.

No. GW—Color, White with Red Spots. One in a Box of 2 ozs. $16 00

Twelfth Dozen in a Box

KENT CHAMPION FLOATER

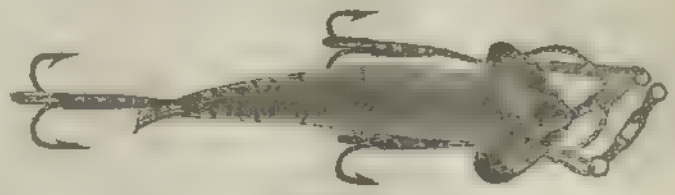
For Light Surface Casting; in Shape and Decoration it Closely Resembles a Meadow Frog. Designed to Supply a Demand for a Floating Bait of Small Size that would not twist a line or tangle it in using. In this respect we have a perfect Bait. It is made of Genuine Tennessee Red Cedar, by far the Best Wood Obtainable for the Purpose, as it is Light and Buoyant, there being a Natural Oil in it that Preserves and Prevents it from Water Soaking like other Woods. The Spinners Revolve in Opposite Directions, Mounted with our Patented Detachable Hook Device, Making it Easy to Fish Otherwise Impossible.

Per Dozen

No. KCF—Size of Body 2¾x1⅜ inches; Three Bright Steel Spear Point Treble Hooks No. 2; Enamel Finish in Grass Green with Rainbow Stripes and Dots and White Belly; Weight ¾ ozs. ...$13.50

Twelfth Dozen in a Box

PHANTOM MINNOWS



★RIVULET

Genuine Porpoise Hide; Oiled Waterproof Assorted Colors; Life Like Minnow Head; Twisted, Bronzed Manganese Steel Wire Leader; Three Hollow Point Bright Treble Hooks, Copper Wire Bound; Two Brass Box Swivels.

Nos	RMW4	RMW5	RMW6	RMW7	RMW8
Length, Inches	3½	3½	3⅞	4¼	4½
Weight per Dozen, Ozs.	9	13	24	28	32
Per Dozen	$22 00	22.00	24 00	27 00	33 00

Twelfth Dozen in a Box, Half Dozen in a Transparent Cover Carton

GENUINE SCOTCH

Fine Quality Silk Body; Oiled Waterproof Assorted Colors; Life Like Minnow Head; Twisted White Gut Leader; Three Spear Point Bronzed Treble Hooks, Silk Bound; One Brass Box Swivel.

Nos	SPM1	SPM2	SPM3	SPM4	SPM5	SPM6	SPM7	SPM8
Length, Inches	2	2⅜	2¾	3⅛	3½	3⅞	4⅛	4½
Wt. per Doz. Ozs.	6	7	8	9	14	15	18	22
Per Dozen	$8.00	8.00	8.00	8 00	8.00	9 00	11.00	12.00

Twelfth Dozen in a Box; Half Dozen in a Plain Carton

FINE SILVER PLATED FLAT WARE

ASHLAND French Grey Pattern | **GARRICK** French Grey Pattern | **CARROLLTON** French Grey Pattern | **CHAMPLAIN** French Grey Pattern | **SULTANA** Bright Finish Pattern | **TIPPED** Bright Finish Pattern

Any of the above 4 patterns furnished in the following. Be sure to specify pattern wanted when ordering.

No. 5795	Tea Spoons, Sectional Plate, per doz..	$ 7.15
No. 5796	Tea Spoons, Triple Plate, per doz	9.75
No. 5797	Dessert Spoons, Sectional Plate, per doz	12.75
No. 5798	Dessert Spoons, Triple Plate, per doz	16.50
No. 5799	Table Spoons, Sectional Plate, per doz	14.25
No. 5800	Table Spoons, Triple Plate, per doz	19.50
No. 5811	Soup Spoons, Sectional Plate, per doz	14.25
No. 5812	Dessert Forks, Sectional Plate, per doz	12.75
No. 5813	Dessert Forks, Triple Plate, per doz	16.50
No. 5814	Table Forks, Sectional Plate, per doz	14.25
No. 5815	Table Forks, Triple Plate, per doz	19.50
No. 5806	Sugar Shell, each	1.35
No. 5817	Butter Knife, each	1.35
No. 5818	Table Knives, Hollow Handle, per doz	28.50
No. 5819	Table Forks, Hollow Handle, per doz	28.50
No. 5810	Dessert Knives, Hollow Handle, per doz	26.65
No. 5811	Dessert Forks, Hollow Handle, per doz	26.65
No. 5812	Butter Spreaders, per set of six	6.40
No. 5813	Berry Spoon, each	3.20
No. 5814	Bouillon Spoons, per set of six	6.40
No. 5815	Coffee Spoons, per set of six	3.35
No. 5816	Iced Tea Spoons, per set of six	4.00
No. 5817	Jelly Serving Spoons, each	2.25
No. 5818	Orange Spoons, per set of six	4.50
No. 5819	Salad Serving Spoon, each	3.40
No. 5820	Cold Meat Serving Fork, each	1.90
No. 5821	Oyster Forks, per set of six	4.75
No. 5822	Salad Serving Fork, each	3.40
No. 5823	Salad Forks, Individual, per set of six	7.15
No. 5824	Pickle Fork, Long, each	1.50
No. 5825	Sugar Tongs, each	2.25
No. 5826	Cold Meat Fork, each	1.70
No. 5827	Gravy Ladle each	2.25
No. 5828	Oyster Ladle, each	1.90
No. 5829	Soup Ladle, each	6.40

Any of the above 2 patterns furnished in the following. Be sure to specify Pattern wanted when ordering.

No.		Per Doz
5830	Tea Spoons, Sectional Plate	$ 7.15
5831	Tea Spoons, Triple Plate	9.75
5832	Dessert Spoons, Sectional Plate	12.75
5833	Dessert Spoons, Triple Plate	16.50
5834	Table Spoons, Sectional Plate	14.25
5835	Table Spoons, Triple Plate	19.50
5836	Soup Spoons, Sectional Plate	14.25
5837	Dessert Forks, Sectional Plate	12.75
5838	Dessert Forks, Triple Plate	16.50
5839	Table Forks, Sectional Plate	14.25
5840	Table Forks, Triple Plate	19.50
5841	Sugar Shell, each	1.15
5842	Butter Knife, each	1.35

Fancy pieces not made in Sultana or Tipped Patterns

Wm. Rogers "Eagle Brand" Wallingford Ct.

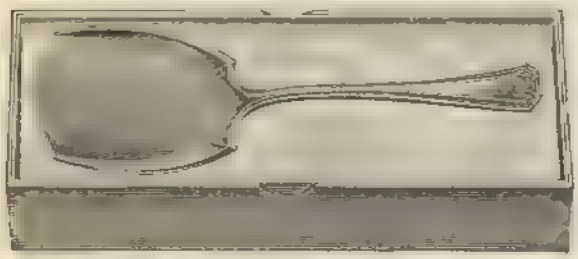
W*ROGERS,

"Eagle Brand"

FINE SILVER PLATED FLATWARE

Put up in fancy lined glazed paper boxes. Illustrations are reduced size

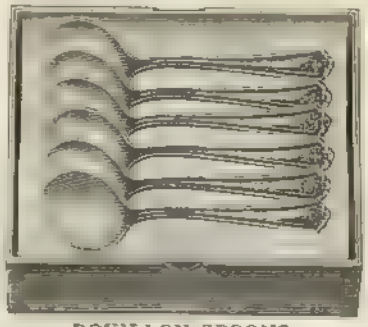
ASHLAND PATTERN — FRENCH GRAY FINISH



BERRY SPOON—Ashland Pattern.
No. 5843 Each $3.00

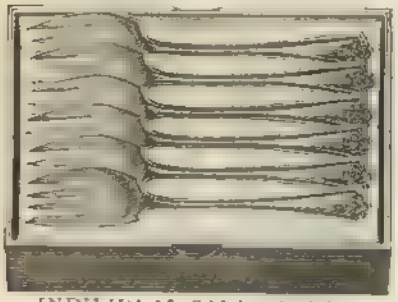
COLD MEAT FORK—Ashland Pattern.
No. 5844 Each $1.90

3-PIECE CHILD SET—Ashland Pattern.
No. 5845 Per set $3.00

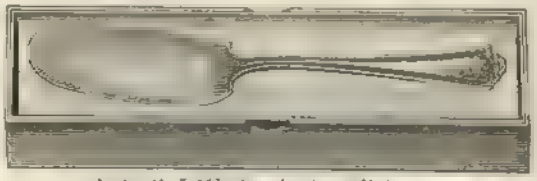


BOUILLON SPOONS
Ashland Pattern
No. 5846 Per set of 6 ..... $6.75

LADLE—Ashland Pattern.
No. 5847 Cream Ladle, each $1.40
No. 5848 Gravy Ladle, each 2.25

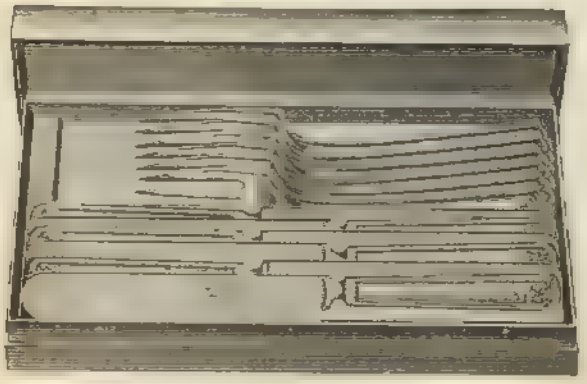


INDIVIDUAL SALAD FORKS
Ashland Pattern
No. 5849 Per set of six $7.15



JELLY KNIFE—Ashland Pattern.
No. 5850 Each $2.25

COFFEE SPOONS
Ashland Pattern
No. 5851 Per set of six $4.55



ASHLAND PATTERN COMBINATION SET.
Six Flat Handle Medium Forks and six Flat Handle Steel Medium Knives.
No. 5852 Per set $12.10

OLIVE SPOON
Ashland Pattern
No. 5853 Each $1.70

SOUP SPOONS—Ashland Pattern.
No. 5854 Per set of six $7.80

CROQUET SETS

REGULAR STYLE.

SHORT MALLETS.

Per Set.

No. 10—Four Ball Set. Rock maple balls and stakes varnished, beaded mallets, oiled, with ash handles 10 polished iron arches, book, and neatly dovetailed box with hinged cover; weight per set, 14 pounds..$3.00

No. 20—Six-ball Set. (In box.) Same goods as in No. 10, weight per set, 17 pounds..... 3.80

No. 30—Eight-ball Set. (In box.) Same goods as in No. 10; weight per set, 23 pounds..... 4.30

Per Set

No. 50—Eight-Ball Set; all parts varnished; mallets painted; 2 eight-colored stakes; 10 polished iron arches; with book; weight per set, 23 lbs . . . $5.20

Per Set.

No. 60—Eight-ball Set. Full varnished, select polished balls, white ash handles, wide painted stripe on balls and handles, nicely turned beaded mallets, enameled arches. The stakes of this set have turned heads; weight per set, 25 pounds.....$6.00

Per Set.

No. 80—Eight-ball Set. Turned by hand, 8 finely painted mallets, neatly turned handles with 9 fancy stripes, selected highly polished 5-striped balls, 2 large beaded fancy striped eight-colored stakes heavy enameled arches, weight per set 32 lbs.....$8.20

PROFESSIONAL STYLE.

LONG MALLETS.

Per Set

No. 40—Four-Ball Set; full varnished and striped balls, handles and stakes; long mallets and short handles, painted, striped; enameled arches; weight per set, 20 lbs; this is called our lower-priced professional set $5.20

No. 45—Eight-Ball Set; otherwise the same as No. 40; weight per set, 32 lbs..... 7.60

All of above, one set in a wooden box.

PROFESSIONAL STYLE.

LONG MALLETS.

Per Set

No. 70—Professional Four-Ball Se turned by hand; neatly painted; 10-inch long mallets, finely striped short ribbed maple handles; selected polished 5-inch striped balls; 2 large beaded four-colored stakes; heavy enameled arches; this set is much used; weight per set, 21 lbs.....$7.00

One set in a wooden box.

Per Set

No. 22—Eight-ball Set. Plain hand polished mallets 6¾ inches long; two eight-colored stakes; three stripes on balls; ten galvanized arches; weight per set 26½ lbs. . . $8.20

One set in a wooden box.

TENNIS RACKET CASES.

Well made, attractively bound. Per Dozen

No. 1—Waterproof fabric, Mackintosh lining..... $13.00

Weight per dozen, 2 lbs. One dozen in a box lbs

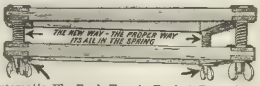
Handsomely made, with attractive binding.

Per Dozen

No. 2—Water-proof covert cloth, Mackintosh lining, with ball pocket; weight per doz., 2 lbs. One doz. in a box..$16.00

RACKET PRESSES.

AUTOMATIC FLY BACK.



The automatic Fly Back Tennis Racket Press is an invention of merit, and one that tennis players have been looking for. The four corner posts are heavy screws, over which are fitted stout spiral springs, this arrangement forces the sides of the press apart as the thumb nuts are loosened, and the racket can be inserted or removed at ease.

Per Dozen.

No. ARP—Automatic Racket Press, made of best quality ash, varnished..... ...$15.60

Weight per dozen 12 pounds. In bulk

Vises

Toles Pattern Rapid Acting Vise for Wood-Workers

Fig. 780

Width of Jaw 10 inches depth of jaw 4 inches jaws open 12 inches weight 36 pounds.

List Price, each $6 50

Massey Planer, Milling Machine, Shaper and Drill Press Vise

Fig. 780

Vise No	Width of Jaw Inches	Depth of Jaw Inches	Jaw Opens Inches	Weight Pounds	List Price Each
41	4	1¼	9	58	$15 00
42	4	2	9¼	13	17 00
46	5	1½	11¾	65	20 00
44	5	3	11	80	25 00
46	8	2	9	150	45 00
47	8	2	11½	165	47 00
48	8	2	13½	76	49 00
49	8	2	15½	195	51 00
50	8	3	9	165	47 00
51	8	3	11	178	49 00
52	8	3	13	191	51 00
53	8	3	15	200	53 00
53½	8	4	17¼	220	55 00
54	10	3	15	250	57 00

Vises

Jareki Pipe Vises

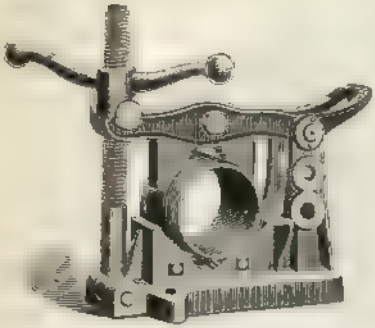


Fig. 761

No. 1J	Takes pipe ⅛ to 2 inch	each	$12 00
No. 2J	Takes pipe ⅛ to 4 inch	each	16 00
No. 3J	Takes pipe ⅛ to 6 inch	each	24 00
No. 4J	Takes pipe 6 to 12 inch	each	60 00

Hinge Vise

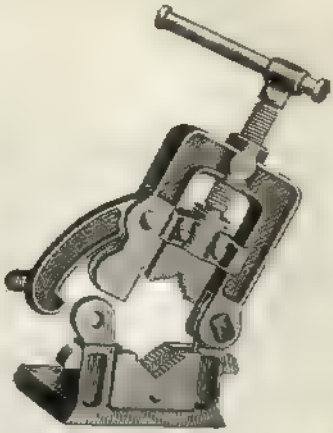


Fig. 762

No. 1A	Takes pipe ⅛ to 2 inch	each	$10 80
No. 2A	Takes pipe ⅛ to 4 inch	each	20 00

Standard Pattern Malleable Iron Pipe Vises

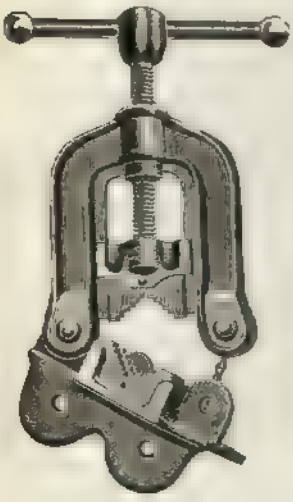


Fig. 763

Price List	No. 1	No. 2
Holds pipe, inches	⅛ to 2	⅛ to 3
Weight, pounds	20	28
Price, each	$10 00	$14 00
Extra jaws, per set of three, net	1 00	1 50

Seven-Pound Steel Vise
Takes All Sizes of Pipe Up to 2-inch

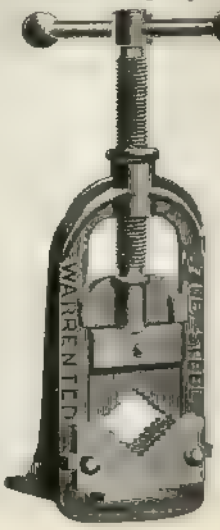


Fig. 764

Price each $4 50

Discount

TENNIS BALLS

WRIGHT & DITSON CHAMPIONSHIP

Per Dozen

No. 0—Recognized as Official by the United States National Lawn Tennis Association; Official Size and Weight; Very Highest Quality; Weight per Dozen 17⅛ lbs..... **$8 00**

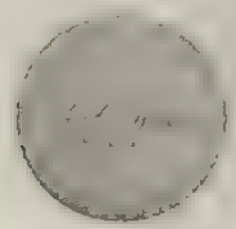
One Dozen in a Box

WRIGHT & DITSON DEUCE

Per Dozen

No. 2—Made of Good Quality R[illegible] Cloth; Recommended as [illegible] Dozen 13⅛ lbs.. **$1 50**

One [illegible]

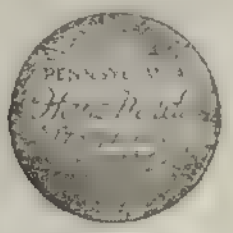


AYRES CHAMPIONSHIP

Per Dozen

No. 00—Made of the Best Quality R[illegible] Felt Cover, Undersewn and Cemented; V[illegible] Bound, Conforms to Rules of National Lawn Tennis Association in [illegible] Size and Weight per Dozen about 17⅛ lbs.. **$8.00**

One Dozen in a Box



HAND MADE CHAMPIONSHIP

Per Dozen

No. HM—Best Quality Rubber and Covered with Best Grade Felt, Undersewn and Cemented; Guaranteed Perfectly Round; [illegible] Weight per Dozen 2 [illegible] **$7 50**

One Dozen in a Box

LAWN TENNIS NETS

UNBOUND

Machine Made, White, with 1/4 inch White Cotton Ropes; 1¾ inch Mesh.

Nos	10 Double Court	20 Double Court	40 Single Court
Size, Feet	[illegible]	36x3	27x3
Twine, No.	15	15	12
Weight, Lbs.	[illegible]	2⅜	1⅝
Each	$3 20	2 70	2 00

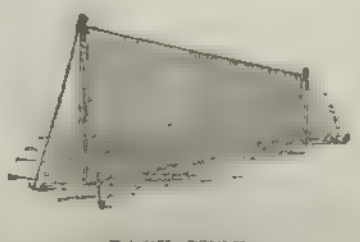
One in a Box

CANVAS BOUND

Double Court White Canvas Bound on Top for Rope to Run Through with ¼ inch White Cotton Ropes; 1¾ inch Mesh; No. 15 Twine.

Nos.	100 White	200 White	600 Tarred
Size, Feet	36x3	42x3	42x3
Weight, Lbs.	2⅜	3½	3½
Each	$4 00	4.50	7.00

One in a Box



BACK STOP

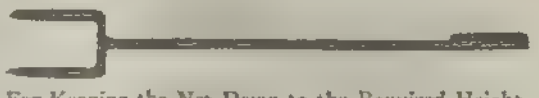
Machine Made; Unbound; White; with ¼ inch White Cotton Ropes; 1¾ inch Mesh.

Each

No. 500—Size 50x7 feet; No. 9 Twine; Weight 3½ lbs..... **$5 00**

One in a Box.

TENNIS NET CENTER IRONS



For Keeping the Net Down to the Required Height.

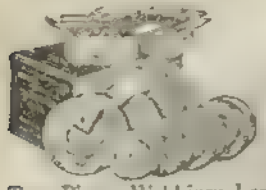
Per Dozen

No. NF—½ inch Iron Rod, Galvanized, Length Over All 43 Inches, Weight per Dozen 50 lbs. ..**$11.00**

Loose.

TENNIS COURT MARKING TAPES

PRIZE WINNER



Set Contains the Following

Two Pieces Webbing; Length 78 feet, with Four Grommets.
Two Pieces Webbing; Length 78 feet, with Two Grommets.
Two Pieces Webbing; Length 36 feet; with Four Grommets.
Two Pieces Webbing; Length 27 feet; with Three Grommets.
One Piece Webbing; Length 42 feet; with Two Grommets.
Two Hundred Galvanized Wire Staples.
Fourteen Steel Pins.

Per Set

No. 1—Double Court; Finest Grade White Woven Webbing. Width 1½ inches, with Brass Grommets; Weight per Set 7 ½ lbs. **$8 50**

One Set in a Box

MARKING TAPE STAPLES

For Holding Down Tennis Court Marking Tapes.

Per 100

No. ES—Galvanized Steel Wire; Easily Forced Into Ground and Hold the Tapes in Line and Without Danger of Tripping the Players; Weight per Hundred 2 lbs. **$0.80**

100 in a Box.

TENNIS COURT MARKERS

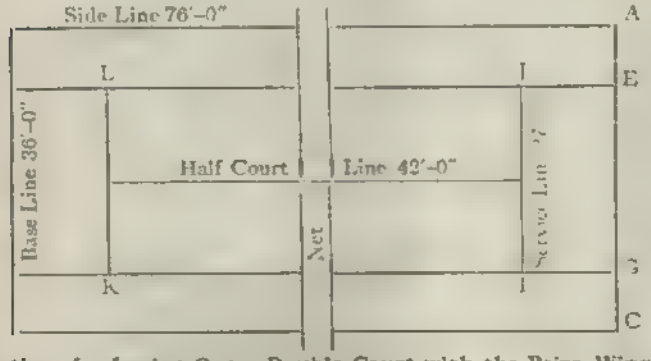
DRY MARKER

This Marker Requires no Mixing of Material with Water to Get Ready for Use. Put in Any Powdered Material, such as Marble Dust, Air-Slacked Lime, Plaster of Paris, or Ground Plaster, such as is Used for Fertilizing Purposes. By Sprinkling Immediately after Marking, or by Marking at Evening before the Dew Falls, the Line is Rendered More Permanent. Fill the Wheel about Two-thirds Full, which is Sufficient for Once Marking the Court.

Per Dozen

No. 2—Heavy Japanned Tin, Gold Striped; Fine Perforations; Screw Cover; Malleable Iron Fork Socket; Diameter of Wheel 9 inches; Width 3 inches; 39 inch Hardwood Handle; Weight 2 lbs. **$21.60**

One in a Package



Directions for Laying Out a Double Court with the Prize Winner Marking Tapes

Select the Two Side Tapes Marked 78.2 feet and the Two Base Tapes Marked 36 feet, and Fasten with Four Pins Through the Grommets to the Ground at Points Lettered A, B, C and D in Diagram. Take the Two Service Side Tapes Marked 78.4 feet and Pin Through Grommets at Points Lettered E, F, G and H. Pin the Two Service Tapes Marked 27.3 feet through Grommets at Points Lettered I, J, K and L and the Half Court Tape Marked 42 feet at Points Lettered M and N; Lastly, take the Staples and Drive Them into the Ground and Over the Tapes at Regular Intervals.

LAWN TENNIS GUIDES

WRIGHT & DITSON

Per Dozen

Official Lawn Tennis Guide; Contains Dates of Tournaments, Championship Events, Rules and Complete Instructions as to Management of Clubs; Complete Rules and Directions for Laying Out Courts; Size 6½x5¼x½ inches; Weight 8 ozs. **$4.10**

Loose.

TENNIS NET CENTER STRAPS

CHAMPIONSHIP

This is a New Device for Holding Center of Net at Regulation Height of 3 feet and is Vastly Superior to the Ordinary Center Iron; it Serves the Purpose Intended Perfectly, and Cannot Get on the Net and Cannot Possibly Cause the Ball to Glance off and Strike Out of Court, as is Occasionally the Case with a Center Iron. Very Desirable for Tournament or Match Games.

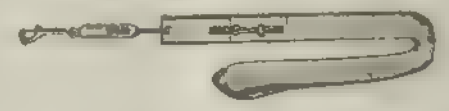
Cut shows Iron Base Piece for Center Straps; this is to be Placed Permanently in the Ground and Strap Can be Quickly and Easily Set up and Taken Down at Will.

White Woven Webbing; Length 66 inches; Width 2 inches; Brass Grommet in Each End; Wrought Iron Galvanized Base Iron 6x7½ inches; Made of ¾x¼ inch Iron.

Per Dozen

No. 2/0—With Double Bolt Snap to Fasten to Base Iron, Without Adjusting Turn Buckle or Fastening Snap on Strap; Weight per Dozen 16 lbs. **$19.20**

One in a Box



White Woven Webbing; Length 55 inches; Width 2 inches; Brass Grommet; Wrought Iron Galvanized Base Iron 6x7½ inches; Made of ¾x¼ inch Iron.

Per Dozen

No. 3/0—With Single Bolt Snap to Fasten to Base Iron; Brass Adjusting Turn Buckle; Spring Fastening Snap on Strap; Weight per Dozen 20 lbs. **$27 00**

One in a Box

TENNIS HATS

Per Dozen

No. TH3—Made of Good Grade Linen Strongly Sewed; Has appearance of Panama Hat; Sizes carried in stock 6⅞ to 7⅜; Weight per Dozen 2½ lbs. **$15.60**

No. TH2—Same Style Hat as TH3, but made of the very Best Grade Cotton Cloth; Sizes carried in stock 6⅞ to 7⅜; Weight per Dozen about 2¼ lbs. **15 00**

No. TH1—Same Style as TH3, made of good grade Cotton Cloth well sewed; Sizes carried in stock 6⅞ to 7⅜; Weight per Dozen about 2 lbs. **7.50**

Loose

TENNIS SHOES

White Congress Tops, Corrugated Soles; White Enameled Hooks; Rubber Insole.

BLACK SOLES

Per Pair

No. RMO—Men's Oxfords; Sizes 6 to 10; Weight per Pair, 12 ozs. . **$1.10**

No. RWO—Women's Oxfords; Sizes 3 to 6; Weight per Pair, 11 ozs. . **1.00**

No. RBO—Boys Oxfords; Sizes 2 to 5; Weight per Pair, 10 ozs. **1.04**

One Pair in a Box

GRAY SOLES

Per Pair

No. BMB—Men's Bals.; Sizes 6 to 10; Weight per Pair, 1 lb. **$1.70**

No. BWB—Women's Bals.; Sizes 3 to 6; Weight per Pair, 14 ozs. . . . **1 60**

No. BBB—Boys Bals.; Sizes 2 to 5; Weight per Pair, 12 ozs. **1 66**

One Pair in a Box

MACHINISTS VISES

YOST

Parallel Solid Jaws; Welded Steel, Hardened and Polished Faces; Japanned Cast Iron Body; with Polished Slide Bar and Screw Head; Polished Wrought Steel Sliding Handle Bar.

STATIONARY BASE

Nos.	103	103½	104	104½	105
Width Jaws, Inches	3	3½	4	4½	5
Jaws Open, Inches	4	5	6	6½	7½
Length Closed, Inches	13½	15	17	18	20
Weight Each, Lbs.	22	28	42	54	75
Each	$6.00	7.00	8.50	10.00	13.00
	10.80	12.60	15.30	18.00	23.40

Loose

YOST

Parallel Solid Jaws; Welded Steel, Hardened and Polished Faces; Japanned Cast Iron Body; with Polished Slide Bar and Screw Head; Polished Wrought Steel Sliding Handle Bar.

SWIVEL BASE

Nos.	203	203½	204	204½	205
Width Jaws, Inches	3	3½	4	4½	5
Jaws Open, Inches	4	5	6	6½	7½
Length Closed, In.	13½	15	17	18	20
Weight Each, Lbs.	28	38	54	69	90
Each	$7.50	8.75	10.50	12.50	16.00
	13.50	15.80	18.90	22.50	28.80

Loose

PRENTISS BULLDOG

Parallel Solid Jaws; Welded Steel, Hardened and Milled Faces; Japanned Cast Iron Body; Polished Jaws, and Polished Slide Bar and Screw Head; Polished Wrought Steel Sliding Handle Bar.

STATIONARY BASE

Nos.	50	51	52	53	54
Width Jaws, Inches	3	3½	4	4½	5
Jaws Open, Inches	4	5	6	7	8
Length Closed, Inches	13½	15	17	18	20
Weight Each, Lbs.	22	28	42	52	72
Each	$6.00	7.00	8.50	10.00	13.00
	10.20	13.90	23.00	27.00	35.10

Loose

PRENTISS BULLDOG

Parallel Solid Jaws; Welded Steel, Hardened and Milled Faces; Japanned Cast Iron Body; Polished Jaws, and Polished Slide Bar and Screw Head; Polished Wrought Steel Sliding Handle Bar.

SWIVEL BASE

Nos.	80	81	82	83	84
Width Jaws, Inches	3¼	3⅝	4⅛	4⅝	5
Jaws Open, Inches	4	5½	6	7	8
Length Closed, Inches	13½	15	17	18	20
Weight Each, Lbs.	28	36	52	64	85
Each	$7.50	8.75	10.50	12.50	16.00
	20.30	23.70	28.40	33.80	43.20

Loose

MACHINISTS VISES

PARKER
Semi-Steel Japanned Finished Body

Hardened Steel, Polished Jaw Faces, Milled and Fitted to the jaws; Polished Slide and Screw Head; Polished Wrought Steel Sliding Handle.

+STATIONARY BASE

Nos.	3 0X	1X	2X	3X	4X	5X
Width Jaws, Inches	¾	1¼	2¼	2¾	3½	4¼
Jaws Open, Inches	4½	5½	6½	8½	9½	10½
Length Closed, In.	15	17¾	19⅝	22½	25¾	28¼
Weight Each, Lbs.	29	45	58	76	112	150
Each	$6 25	7 00	9.00	11.75	16 25	24 00
	16 30	18.20	23.40	30.60	42 80	62.40

Loose

PARKER
Semi-Steel Japanned Finished Body

Hardened Steel, Polished Jaw Faces, Milled and Fitted to the Jaws; Polished Slide and Screw Head; Polished Wrought Steel Sliding Handle.

+SWIVEL BASE

Nos.	21X	22X	23X	24X	25X	26X
Width Jaws, Inches	3¼	3¾	4¼	4¾	5½	6¼
Jaws Open, Inches	4½	5½	6½	8½	9½	10½
Length Closed, In.	15	17¾	19⅝	22½	25¾	28¼
Weight Each, Lbs.	33	52	69	88	129	176
Each	$7.00	8.75	11.00	14.50	20 50	30 00
	18.20	22 80	28.60	37.70	53.30	78 00

Loose

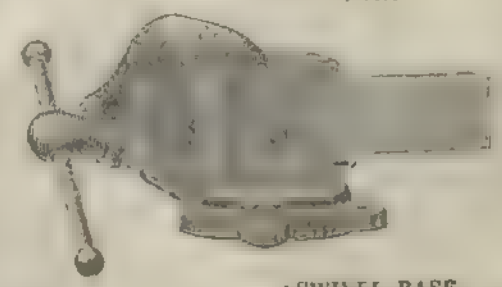
PARKER
SEMI-STEEL Japanned Finish Body

Steel Faces are Milled and fitted to the Jaws, and are Renewable. Polished Slide and Screw Head. Polished Wrought Steel Handle.

+STATIONARY BASE

Nos.	P29	P39	P49	P59	P69	P79
Width Jaws, Inches	3¼	3¾	4¼	4¾	5¼	6¼
Jaws Open, Inches	4	6¼	7	8	9	9½
Weight Each, Lbs.	31	47	66	81	123	150
Each	8 6 25	7.00	9.00	11.75	16 25	24.00
	13 80	15.40	19 80	25 00	35 80	52 80

Loose



PARKER
SEMI-STEEL Japanned Finish Body.

Steel Faces are Milled and fitted to the Jaws, and are Renewable; Polished Slide and Screw Head; Polished Wrought Steel Sliding Handle

+SWIVEL BASE

Nos.	P229	P239	P249	P259	P269	P279
Width Jaws, Inches	3¼	3¾	4¼	4¾	5½	6¼
Jaws Open, Inches	4	6¼	7	8	9	9½
Weight Each, Lbs.	33	53	75	95	143	185
Each	8 6 50	8 75	11.00	14.50	20.50	30.00
	15 40	19.30	24 20	31.90	45 10	66.00

Loose

Items Marked ✱ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, New York, N. Y.

MACHINISTS VISES

PARKER

HEAVY RAILWAY

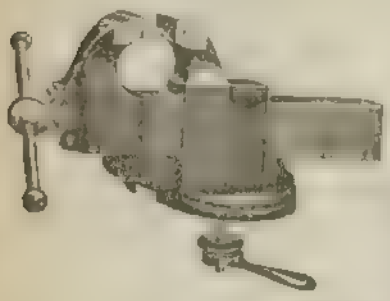
A Vise Especially Adapted for Use by Railways and Machine Shops Requiring a Trusty Tool for Heavy Work; It is Nicely Proportioned and Extra Strong.

Cast Iron Body Painted Green, Hardened Steel Polished Jaw Faces, Milled and Fitted to the Jaws; Polished Slide and Screw Head; Polished Wrought Steel Sliding Handle.

†STATIONARY BASE

	Each
No. 600—Width of Jaws 8⅛ inches; Jaws Open 12½ inches; Length of Vise Closed 81¼ inches; Weight Each 240 lbs.	$108.00 45.00

Loose



HEAVY RAILWAY

A Vise Especially Adapted for Use by Railways and Machine Shops Requiring a Trusty Tool for Heavy Work; It is Nicely Proportioned and Extra Strong.

Cast Iron Body Painted Green; Hardened Steel Polished Jaw Faces, Milled and Fitted to the Jaws; Polished Slide and Screw Head; Polished Wrought Steel Sliding Handle.

†SWIVEL BASE

	Each
†No. R160—Width of Jaws 8 inches, Jaws Open 12½ inches; Length of Vise Closed 31¼ inches, Weight Each 240 lbs.	$120 00 50 00

†PRENTISS MACHINISTS

Parallel Self-Adjusting Jaws, Welded Steel Faces, Polished and Hardened, Polished Steel Screw and Sliding Lever, Flat Steel Tempered Spring, Malleable Iron Bench Plate, Graduations Above.

†STATIONARY BASE

Nos.	1	2	2½	3	4	5	6
Width Jaws, Inches	2	2½	3	4½	5¼	6	7
Jaws Open, Inches	3½	4½	5¼	6	8	9	11
Length Closed, Inches	12½	15½	17¼	19	24	28	31
Weight Each, Lbs.	13½	28	41	73	109	168	270
Each	$5 50	7.00	9.00	12 00	17 00	27 00	35 00
	14 40	18.90	24 30	28 40	45 00	64 80	81 00

Loose

†PRENTISS MACHINISTS

Parallel Self-Adjusting Jaws, Welded Steel Faces, Polished and Hardened, Polished Steel Screw and Sliding Lever, Flat Steel Tempered Spring, Malleable Iron Bench Plate, Serrated Surfaces, but can be Used Stationary by Inserting Steel Pin Marked "A" in illustration Above.

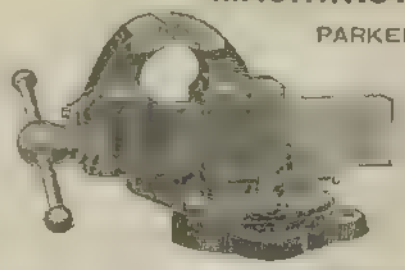
†SWIVEL BASE

Nos.	18	19	19½	20	21	22	23
Width Jaws, In.	2½	3½	4	4½	5¼	6	7
Jaws Open, In.	3½	4½	5¼	6	8	9	11
Length Closed, In.	12½	15½	17¼	19	24	28	31
Weight Each, Lbs.	17	32	46	65	109	168	270
Each	$6.75	8 50	10 50	12 50	19 00	27 00	35 00
	18.30	23 00	28.40	33.80	51.30	72.90	94.50

Loose

MACHINISTS VISES

PARKER



CAST IRON

Body Painted Green, Hardened Steel, Polished Jaw Faces; Milled and Fitted to the Jaws, Polished Slide and Screw Head; Polished Wrought Steel Sliding Handle.

†SWIVEL BASE

Nos.	P202	P203	P204	P205	P206	P207
Width Jaws, in.	3	3½	4	4½	5	6
Jaws Open, in.	4	5	6	6½	7½	10
Wt. Each, lbs.	27	42	58	76	104	158
Each	$7.50	8 75	10 50	12 50	16 00	30 00
	18 00	21 00	25 20	30 00	38 40	72 00

CAST IRON

Body Painted Green, Hardened Steel, Polished Jaw Faces; Milled and Fitted to the Jaws; Polished Slide and Screw Head; Polished Wrought Steel Sliding Handle.

†STATIONARY BASE

Nos.	P102	P103	P104	P105	P106	P107
Width Jaws, In.	3		4	4½	5	6
Jaws Open, In.	4		6	6½	7½	10
Length Closed, In.	21		43	61	82	133
Each	$6 00		8 50	10 00	13 00	25 00
	14 40	16 80	20.40	24 00	31 20	60 00

Loose

BLACKSMITHS VISES

SOLID BOX

Japanned Forged Steel Body; Polished Tool Steel, Welded Jaws; Polished Steel Screw and Sliding Lever; Flat Steel Tempered Spring; Malleable Iron Bench Plate

Nos.	BV35	BV40	BV45
Width Jaws, Ins.	3½	4	4½
Length Closed, Ins.	15	18	20
Each	$9 00	10 50	11 00
	18 00	18 90	19 80

Nos.	BV50	BV60	BV65
Weight Each, lbs.	50	60	65
Width and Opening of Jaws, ins.	4½	5	5
Each	$11.50	13 00	11 00
	20.70	23.40	25.20

Nos.	BV70	BV80	BV85	BV100
Width Jaws, Ins.	7	8	8½	10
Weight Each, lbs.	70	80	85	100
Length Closed, Ins.	24	27	28	30
Each	$15 00	18 00	22 00	
	27 00	31 50	33 30	39 60

Loose

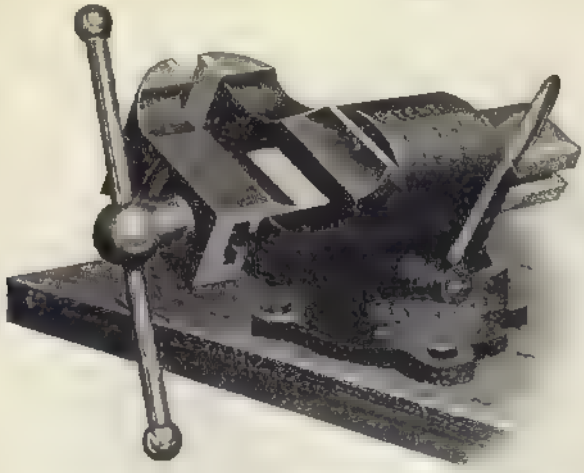
VISE BOXES AND SCREWS

For Blacksmiths Solid Box Vises Malleable Iron Boxes, with Steel Screw and Sliding Handle

Nos.	VB1	VB2	VB3
For Vises Nos.	BV30 to BV40	BV45 to BV55	BV60 to BV75
Diameter of Screw, Ins.	1	1¼	1¼
Length, inches	12	13	14
Weight, lbs.	10	12	15
Each	$3 50	4.00	4 50
	5 60	6.40	7.20

Loose

Vises



Machinists' Vise

The Vise that Can Be Adjusted to any Position Without Removing Work from Jaws

Fig. 75a

No.	Width of Jaw, Inches	Jaw Opens, Inches	Weight, Pounds	List Price	No.	Width of Jaw, Inches	Jaw Opens, Inches	Weight, Pounds	List Price
B	2	2	8	$ 8 00	G	4½	7	1	$20 00
C	2½	3	18	12 00	H	5	8	1	27 00
D	3	4	27	16 00	I	6	10	200	35 00
E	3½	5	42	24 00	J	7	11	250	50 00
F	4	6	64	17 00					

The New Improved Universal Wood-Workers Vise

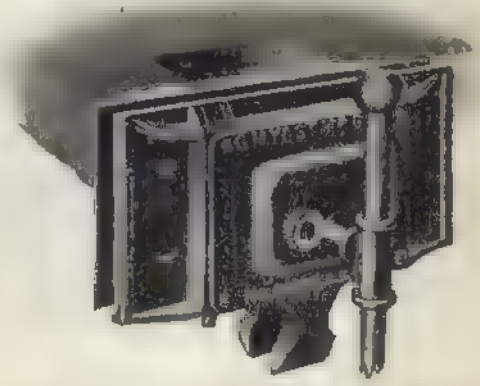


Fig. 75b

No.	Width of Jaw, Inches	Opens, Inches	Weight, Pounds	Price
1	8 x 16	14	80	$35 00

Vises

Massey Lightning Grip Wood-Workers' Vise

Fig. 757

Three pieces of wood 2, 6 and 12 inches can be fastened between the jaws in ten seconds

Vise No	Width of Jaw Inches	Jaw Opens Inches	Weight Pounds	List Price Each
17	9	2	47	$6 00
19	7	7	29	4 00

Massey Lightning Grip Wood-Workers' Vise

Fig. 758

This vise is equipped with stop in front jaw, otherwise it is the same as above

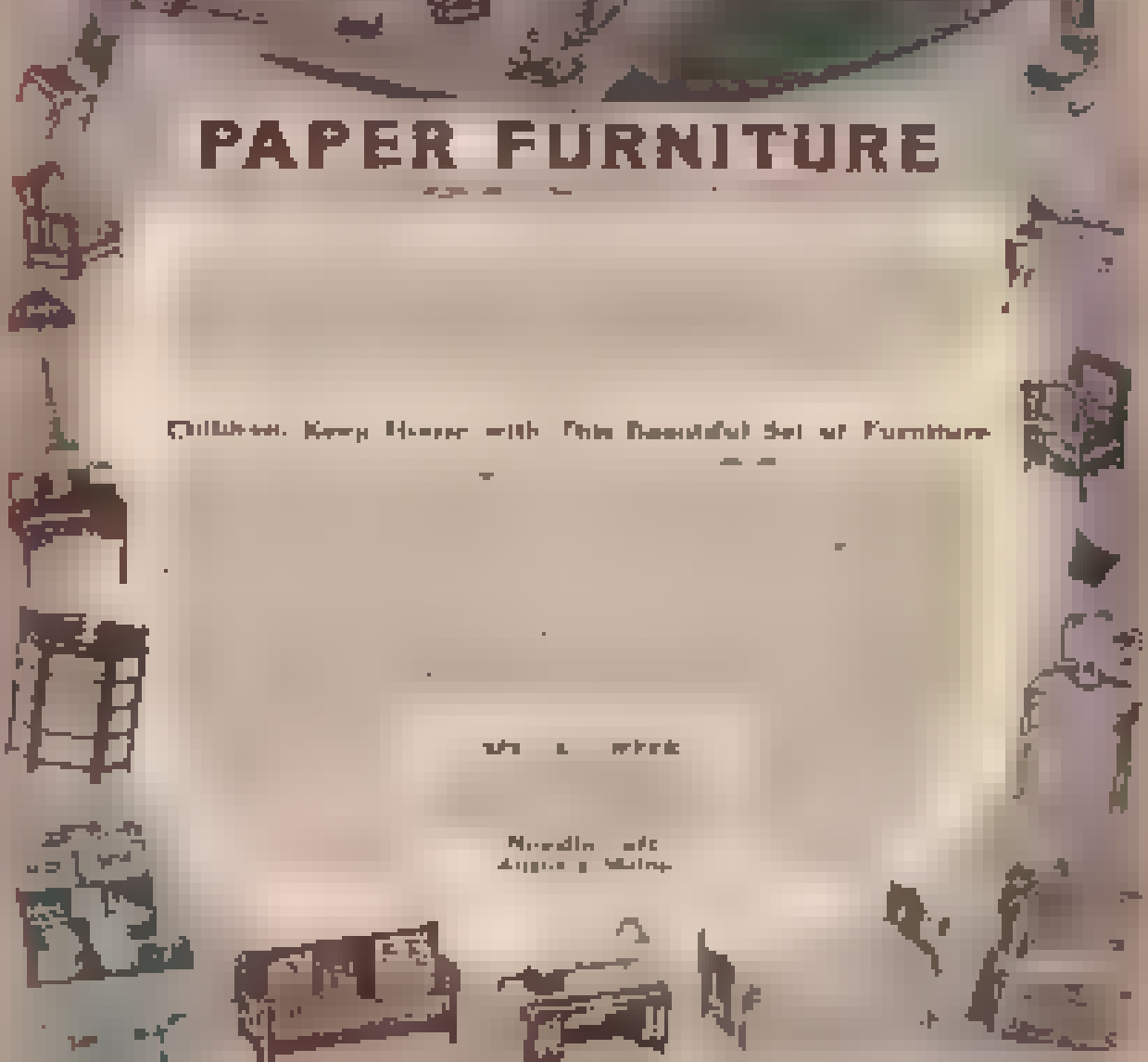
Vise No	Width of Jaw Inches	Jaw Opens Inches	Weight Pounds	List Price Each
17A	9	12	48	$6 75
19A	7	7	30	4.75

DOLL FURNITURE

WITH BEAUTIFUL RUGS

PAPER FURNITURE

Children, Keep House with This Beautiful Set of Furniture



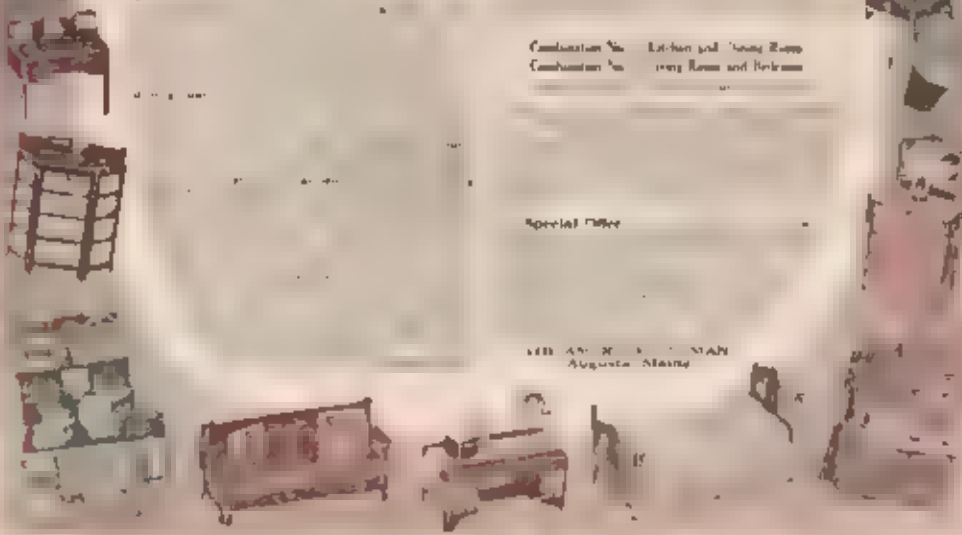
DOLL FURNITURE

WITH BEAUTIFUL RUGS

PAPER FURNITURE

Children, Keep House with This Beautiful Furniture

Special Offer



Picture Section for May

Sing, Belgians, Sing

By Emile Cammaerts

A [illegible] bleed
[illegible]
[illegible] of Aerschot of Dinant

Although our eyes may burn
Although our brain may turn.
[illegible]

With branches of beech, of flaming beech
To the sound of the drum
We'll cover the graves of our children

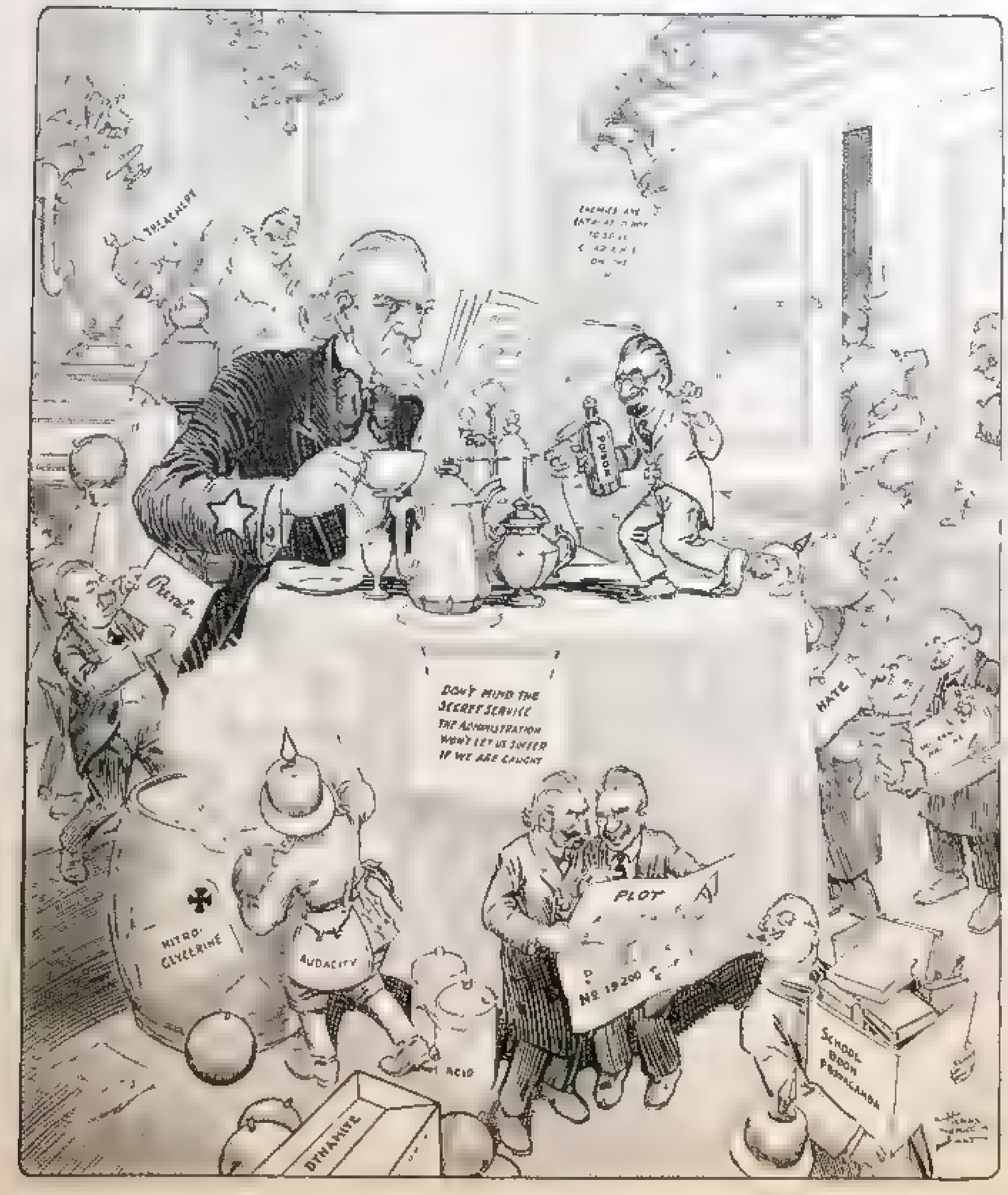
We'll choose a day like this
When the poplars tremble softly in the breeze
And all the woods are scented
With the smell of dying leaves,
That they may bear with them be neath
The perfume of our land
We'll ask the earth they loved so well
To rock them in her great arms
To warm them on her mighty breast
And send them dreams of other fights
Retaking Liege, Malines, Brussels, Louvain and Namur,
And of their triumphant entry, at last, in Berlin!

Sing, Belgians, sing!
Although our wounds may bleed, although our voices break,
Louder than the storm, louder than [illegible]
Although our wounds may bleed, although our hearts may break
Sing of hope and hereest hate,
Neath this bright autumn sun
Sing of the pride of charity
When vengeance would be so sweet!

PROOF COPY
Vol. 71, No. 1850 January 1, 1918

Life

"WHERE'S YOUR NUMBER?"



Uncle Sam: IT ALMOST MAKES ME FEEL AS IF SOME PEOPLE WERE NOT TO BE TRUSTED

Keep them in Class 1-A

There [illegible] enough wheat for [illegible] used as it should be by the Food Administration. [illegible] to use substitutes — [illegible] many ways that are just as satisfactory as wheat. When you [illegible] see to it that [illegible] utilize its full value — not just part of it.

You can now get *Ralston* freely. [illegible] is combined with hearty whole [illegible] wheat go farthest. It has the rich wheat flavor children love.

Ralston supplies the very [illegible] a growing child needs to [illegible] sturdy constitution. Mildly laxative, it stimulates the digestive organs to normal action.

[illegible]

Not necessary to buy substitutes with Ralston.

[illegible]

We use the whole of the wheat in making our wholesome foods.

Ralston Purina Mills, 810 Gratiot Street, St. Louis, Mo.

[illegible]

Stand Up and Be Counted

The Greatest Mother in the World is counting her children.

She wants your name—and yours—and yours—the names of all her children.

So, stand up, you men and women of America—stand up and be counted

Let The Greatest Mother in the World see what a big, proud family she has.

You've given your share to your Red Cross—given it generously,—and you'll give your share again when the time comes.

Right now your Red Cross wants your name—not a contribution—wants to know that we are with her [illegible] to help her. The Greatest Mother in the World wants to know who her children are before Christmas.

Give your name and a dollar to the next Red Cross Worker who asks you for it

Answer "Present" at the *Christmas Red Cross Roll Call*

Stand up and be counted you children of The Greatest Mother in the World.

All you need is a Heart and a Dollar

RED CROSS CHRISTMAS ROLL CALL

December 16-23

Contributed through Division of Advertising

United States Gov't Comm. on Public Information

This space contributed for the Winning of the War by

THE PUBLISHERS OF LESLIE'S WEEKLY

Short Cuts in Red Cross Work

THE GARDENS OF THE RITZ-CARLTON

NEW YORK

OPEN ON OR ABOUT JUNE 1st 1918

ALBERT KELLER
GENERAL MANAGER

The JAPANESE GARDENS

DESIGNED by Japanese artisans of highest skill, this exquisitely beautiful out-of-doors restaurant surrounds you at luncheon or tea with all the picturesqueness and subtle charm of Nippon. Cool, novel, refreshingly different.

The ROOF GARDEN

AN open-air dining place in which the fullest expectations of the elite are realized. Incomparable in brilliance of setting, service, music and cuisine, peerless in the tone of its clientele, it stands as the ultimate achievement of fashionable New York's summer season.

Schoenhut Toys.

Made in U.S.A. — *American Ingenuity* — **Since 1872** — *and Invention*

Schoenhut All-Wood

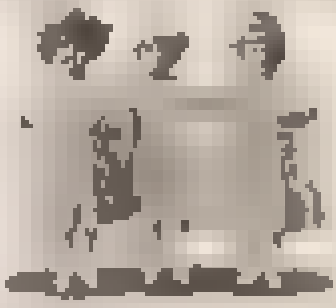
Perfection Art Doll

Schoenhut All Wood Perfection Art Dolls [illegible] [illegible] [illegible]

Schoenhut Toys

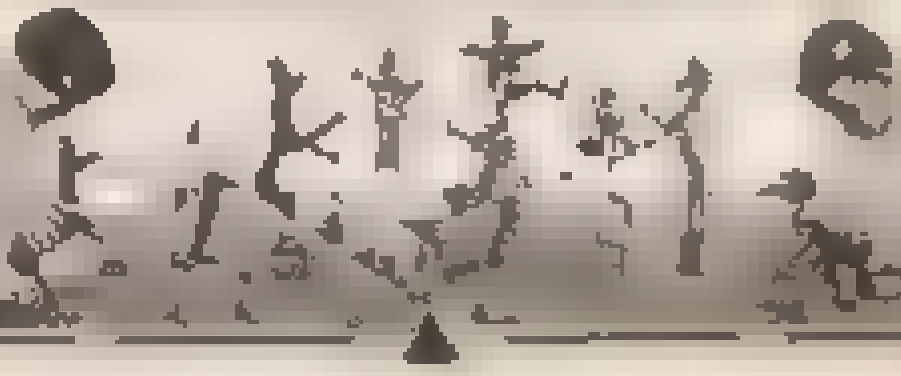
Made in U.S.A. Since 19??

Schoenhut All Wood



Perfection Art Doll

Schoenhut's Humpty Dumpty Circus



Schoenhut Toys

Made in U.S.A.
American Ingenuity

Since 1872
and Invention

Schoenhut All-Wood Perfection Art Doll

Schoenhut All-Wood Perfection Art Dolls can be put in any life-like position. Some have beautiful life-like child faces, and others have the usual doll faces. They come with the finest quality mohair wigs or with hair carved on wooden heads painted in natural colors. ***Schoenhut Dolls*** are made entirely from wood, they do not break and cause heartaches. They are artistically painted in natural colors that will not come off. ***Schoenhut Dolls***, being a new invention, are not yet stocked by all dealers. If your dealer cannot supply you we will be glad to supply you direct from the factory. Send for illustrated doll booklet.

The Schoenhut Toy Piano mat a great many [illegible] Schoenhut Toy Pianos have been made [illegible] for forty years in the U. S. A. They are [illegible] two sizes and in five ranging from 10 notes to [illegible] keys.

They are sold by practically all toy dealers and [illegible]. Get a catalogue from your dealer and [illegible] the name *Schoenhut* when [illegible]

Pianos should not be ordered direct from the factory, as it is not practical to ship them by Parcel Post.

Make this the children's Christmas

Upon the happiness of little children the shadow of war should not fall. The Christmas days of childhood are all too few. We must not let even one of them be saddened.

Give them Schoenhut American made toys which will last for years—which will educate as well as amuse—which will train the growing mind along natural lines rather than grotesque ones.

If you have no children of your own, remember that many of your friends have gone to the front, leaving behind them children who will be lonely this Christmas, whose gifts will be fewer, who have great need of the added happiness you can give by sending them *Schoenhut toys*.

Every good store has Schoenhut toys. Look for the name on every package.

The A. Schoenhut Co.
Philadelphia, Pa.

Schoenhut Mailwood Toys appeal to every boy and girl who loves to know what's inside.

They are made of clean white wood (not painted) and can be easily taken apart and put together.

They are designed [illegible] the smaller children's nine [illegible] and [illegible] made [illegible] strong material [illegible] toys. Locomotives, [illegible] motor trucks etc. can be built [illegible]

[illegible] at your dealer's, write direct to us for [illegible] values.

Schoenhut's Humpty Dumpty Circus

Greatest Show on Earth ——— 10001 New Tricks

[illegible] toys on earth. They are [illegible] boys and girls grown-up people laugh at [illegible] The animals are painted in all colors that will not come off. The [illegible] figures [illegible] They will stand the roughest sort of treatment. Sold at prices from 25 cents to $[illegible] according to the number of parts. Start in on with a few pieces and keep adding until your "greatest show on earth" is complete. If your dealer cannot supply you, send us his name and we will [illegible]

Schoenhut Toys

Made in U.S.A.
American Ingenuity

Since 1872
and Invention

Schoenhut All-Wood

Schoenhut All-Wood Perfection Art Dolls can be put in any life-like position. Some have beautiful life-like child faces, and others have the usual doll faces. They come with the finest quality mohair wigs or with hair carved on wooden heads painted in natural colors. ***Schoenhut Dolls*** are made entirely from wood, they do not break

Perfection Art Doll

and have beautiful faces. They are artistically painted in natural colors. Every part is well made. ***Schoenhut Dolls***, with many improvements and patented devices of our own invention, are not yet on sale in your town, but if you will write us we will be glad to tell you where you can buy them. Then ask for the beautifully illustrated doll booklet

The Schoenhut Toy Piano makes real music, not a mere noise. Schoenhut Toy Pianos have been made continuously for forty-six years in the U. S. A. There are forty-three sizes and styles, ranging from 50 cents to $25.00 each.

They are sold by practically all toy dealers and music stores. Let your dealer show them to you, and insist on having the Schoenhut make.

Pianos should not be ordered direct from the factory, as it is not practical to ship them by Parcel Post.

Make this the children's Christmas

Upon the happiness of little children the shadow of war should not fall. The Christmas days of childhood are all too few. We must not let even one of them be saddened

Give them Schoenhut American made toys which will last for years—which will educate as well as amuse—which will train the growing mind along natural lines rather than grotesque ones.

If you have no children of your own, remember that many of your friends have gone to the front, leaving behind them children who will be lonely this Christmas, whose gifts will be fewer, who have great need of the added happiness you can give by sending them *Schoenhut toys*.

Every good store has Schoenhut toys. Look for the name on every package.

The A Schoenhut Co.
Philadelphia, Pa.

Schoenhut Mailing Tags are [illegible]

Schoenhut's Humpty Dumpty Circus

Greatest Show on Earth ——— 10001 New Tricks

Policy Power Cover Wedding

[redacted]

Betty Bonnet Goes to a Wedding

The Page and the Flower Girl: By Sh[redacted]

Hart Schaffner & Marx uniforms for naval officers

YOU men may not be on duty all the time but your uniform is. You want it well tailored a perfect fit, and it should be made of fine all-wool fabrics that give you long wear and good value

The uniforms are ready for you now at our store; Hart Schaffner & Marx made them, we're exclusive agents for them in Waukegan.

We'll be glad to show you any day; satisfaction guaranteed.

Doolittle & Whyte

119-121 North Genesee Street
Waukegan, Ill.

Stall & Dean Manufacturing Co.

CHICAGO, ILL.

MAKERS OF

ATHLETIC GOODS

BROCKTON, MASS.

Manufacturers of all kinds of Athletic Goods Base Ball, Foot Ball, Basket Ball and Gymnasium Clothing Base Balls Foot Balls, Basket Balls Bats Masks, Base Ball Gloves and Mitts Boxing Gloves Striking Bags Volley Balls, Medicine Balls etc

MANUFACTURERS OF

BASE BALL UNIFORMS

We are the recognized leaders in Foot Ball and Basket Ball Clothing and our goods are used by leading colleges and schools throughout the country

The QUALITY STYLE and ACTUAL VALUE of our goods are recognized from the fact that they are being universally used by the U. S. ARMY NAVY and CANTONMENT CAMPS.

If your Athletic Goods show the STALL & DEAN Trade Mark you can bank upon them being right

Stall & Dean Manufacturing Co.

Office and Factory: 855-857 Elston Avenue, CHICAGO, ILL.

Betty Bonnet Goes to a Wedding

Betty Bonnet's Rainy Day Party

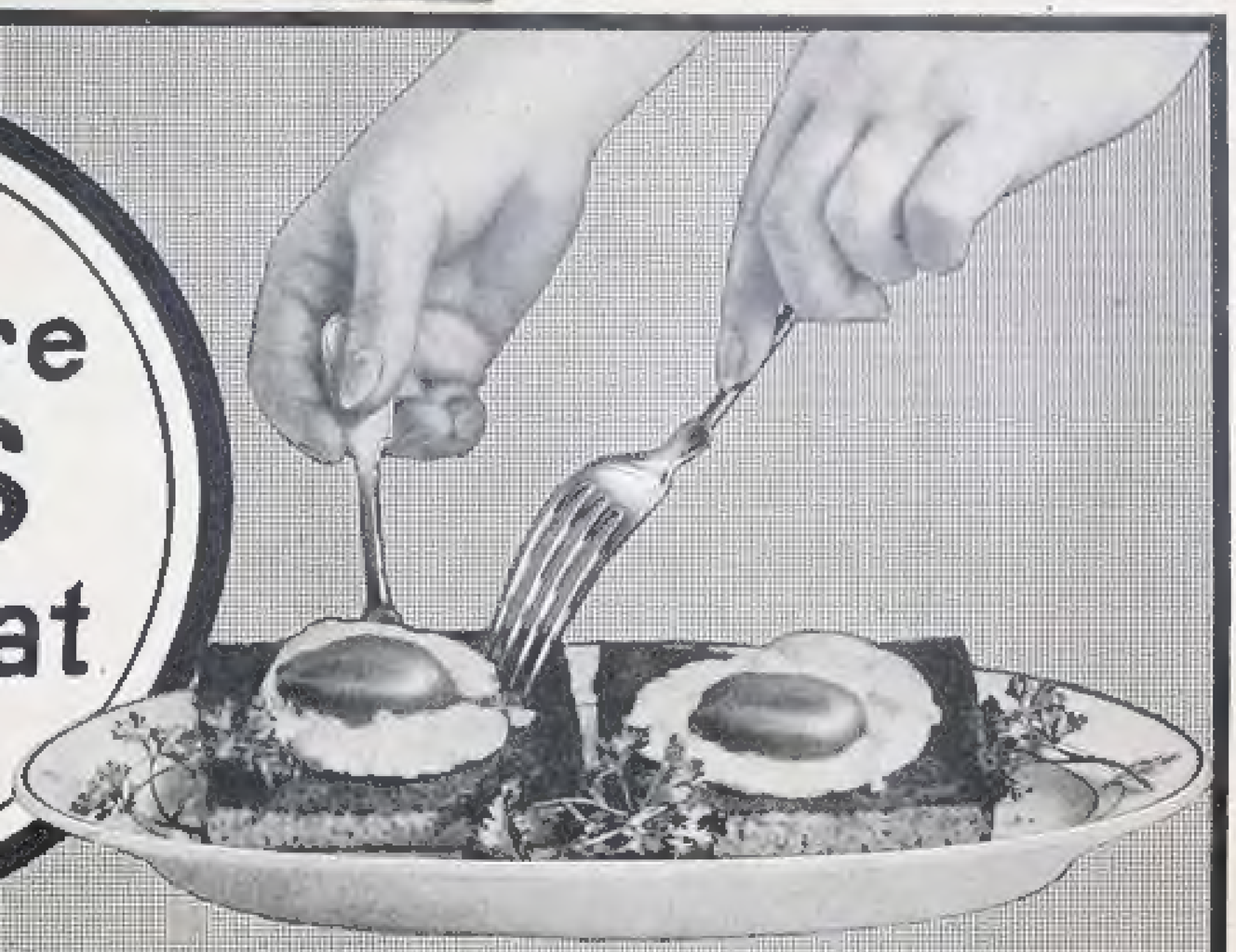
NOTE: If the whole [illegible]

· ■■OW ME T■■ WAY, PL■AS■

A PARADE THE KAISER WOULDN'T CARE TO WITNESS

HERE they come! Look at 'em with your hat off (if you're a man)—THE FLEET led by the Pennsylvania. Don't they give you a thrill? Note the little destroyers on the far side. Those are the scouts that are helping to sweep German submarines from an outraged ocean. And on this side, down in front, is one of our own submarines, who have their job to do as well!

Use more EGGS save meat



USE more eggs to save meat—that's what Mr. Hoover asks you to do.

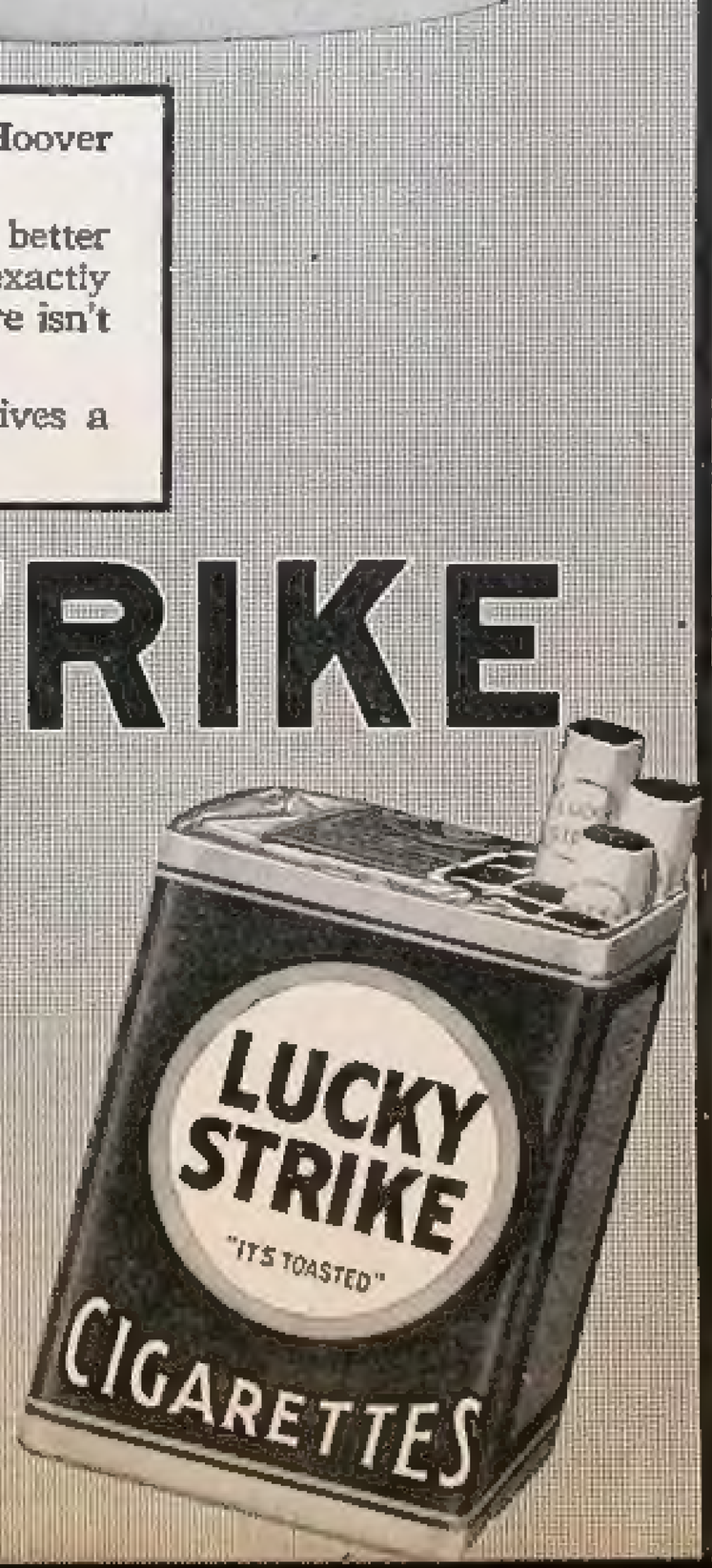
And you're glad to do it. You know there isn't a better breakfast than two poached eggs on toast—seasoned exactly right. Of course, the cooking gives the flavor. There isn't much interest in a raw egg.

The "cooking" does it for Lucky Strike cigarette—gives a delicious flavor. It's toasted.

LUCKY STRIKE CIGARETTE

It's toasted

SAVE the TIN-FOIL from Lucky Strike Cigarettes and give it to the Red Cross



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FROM A PAINTING BY HAROLD BRETT

THE GREATEST HOME IN THE WORLD?

"Them Y huts?" said a private.
"Why, they're everything to us fellows, except Mother"